

Fisher[™] Buyers Guide LP-31

LPG and NH₃ Equipment 2016

The Industry Leader for Durability and Quality



Emerson Process Management

Solving Your Toughest Challenges

Industries are under constant pressure to cut costs, increase output, reduce energy use and improve safety and emissions. That is why companies around the world turn to Emerson Process Management for technologies, services and expertise to solve problems and deliver proven results.



Expertise and Innovation To Deliver Proven Results

Emerson Process Management is the automation innovator with the depth of expertise and breadth of technologies to take on our customers' toughest challenges and bring predictable success anytime, anywhere.





Solve and Support

Expertise and global resources to help you dependably define, execute and support a strategy throughout the lifecycle of your operation.



Measure & Analyze

The broadest range of measurement and analytical technologies for process clarity and insight.



Operate & Manage

The systems and tools that provide the decision integrity to run your operation at its full potential.



Final Control & Regulate •

Highly reliable final control technologies to help you regulate and isolate your process with certainty.

Regulator Technologies

Emerson Process Management Regulator Technologies: Control Your System with Certainty

Emerson Process Management Regulator Technologies Inc. (Emerson™) brings together technology and engineering to provide an expanding array of innovative manufacturing and processing solutions for industrial, commercial and consumer markets. We offer the world's largest collection of pressure control, flow control and relief valve solutions for process and specialty gases, liquids, steam, natural gas and liquid propane industries.

Our regulators are renowned for setting industry standards for performance and extended service life, while Emerson product sales, service and technical support teams are unrivaled in their ability to serve you locally from offices located strategically around the globe.

Natural Gas Solutions

Emerson leads the way in providing best in-class natural gas conditioning, metering, pressure regulating products and customized skids to the natural gas industry. From regulators to skids, Emerson products offer design innovation, superior performance and unbeatable reliability and durability under extreme conditions in even the world's most rugged environments. Around the clock, around the world, look to Emerson for natural gas solutions.

LPG Solutions

Throughout the world, Emerson supplies leading liquefied petroleum gas (LPG) suppliers with the broadest available line of Fisher commercial service LPG regulators and bulk storage and transport equipment. Renowned as the propane industry standard for reliable pressure regulation, Fisher LPG valves and regulators provide high value solutions across a range of stationary storage and mobile applications. With more than 2,000 technical experts at over 200 locations worldwide, our service and support remains second to none.

Gas, Liquid and Steam Solutions

Emerson offers a dynamic range of Fisher brand self- and pilot-operated pressure regulators, relief valves and tank management products for industrial gas, liquids and steam applications. Suitable for use in a wide range of environments, from the wellhead to the pharmaceutical plant, their versatility, stability, ease of maintenance and rigorous adherence to ISO-9001 standards for quality and reliability have made them the pressure regulators of choice in tens of thousands of installations worldwide.

Precision Pressure Control Solutions

Emerson designs and manufactures industry-leading standard and custom engineered regulators, valves, and systems for use in precise pressure control solutions for a broad range of sea, land and space-based industries. Our TESCOM brand of products are engineered to exacting standards that continually exceed global certification requirements, allowing us to serve even the most specialized applications. Today, Emerson's TESCOM products and support are hard at work on every industrialized continent.







Solutions

Fisher™



Industrial Gas, Liquid & Steam Solutions

Fisher™ Enardo™



Precision Pressure Control Solutions

TESCOM™

www.EmersonProcess.com/regulators

Emerson Process Management

Quality

Emerson™ ensures the highest quality and safety standards through our global brands – Fisher™, Francel™, Tartarini™, TESCOM™ and our Asian-specific brand Jeon.

For more than a century we have worked side-by-side with customers to understand their challenges and help implement effective solutions. Our systems, processes and employees are committed to providing defect-free products, information and services that satisfy your expectations on time, every time.

Emerson is dedicated to delivering only the highest product quality and performance utilizing efficient operations. We create value by delivering best-in-class pressure and flow control equipment, systems, services and solutions for an unparalleled range of applications. We execute new product development plans with advanced technologies and solutions that deliver undisputed quality.

To achieve consistent operational and product excellence globally we strive to attract the most talented people and support continuous development of our workforce, products and processes at every level.

Reliability

With more than 125 years of experience, Emerson has built a solid reputation for reliability.

Our regulators, valves and flow control systems are engineered to exacting standards, each carefully designed, thoroughly tested and developed to handle higher pressures while providing increased delivery capacity, reduced noise output and zero emission. We go beyond baseline industry standards to ensure our equipment operates reliably in even the most extreme conditions anywhere in the world.

At Emerson, we are committed to continually raising the bar in our efforts to develop still higher quality, more advanced systems that operate safely and reliably well into the future.

Technology

Innovative technology makes Emerson pressure and flow control solutions more productive, efficient and cost-effective. Our proven results are what make us the leader in the industry.

Spanning the globe, Emerson test and evaluation facilities provide the engineering expertise required to ensure superior quality product design and high performance results wherever our products are deployed. At these facilities, Emerson tests all sizes and types of regulators under realworld plant conditions to ensure production performance, efficiency, environmental compliance and safety before actual installation at your site.

Our test and evaluation facilities are dedicated to tackling the toughest engineering challenges facing today's process manufacturing and energy industries, including helping companies deliver record volumes of natural gas and other forms of energy, consume less energy, reduce costs, operate more quietly and reduce greenhouse emissions.

Service

With over 2,000 local technical experts to serve you from nearly 200 locations around the world, our sales and service network is one of the largest in the industry.

Whether you need an emergency replacement regulator or need expert assistance on a long-range growth and expansion plan, there is a local Sales Office to respond quickly and professionally.

Regulator Technologies

In 1880, Fisher Controls was founded in Marshalltown, Iowa, by William Fisher. Fisher Controls grew steadily over the years, evolving into an industry leader offering customers the most complete range of flow control products in the world.

William Fisher came to America from England as a boy of 14. As his family ventured west in the new land, they settled along the Mississippi in Clinton, Iowa. It was there, as a mechanic in a small engine shop for 10 years, that William learned about steam, the major source of power in the late 1800s. Because of his experience in water and steam, William, who was 24 at the time, was invited to Marshalltown to help install the water works.

The idea of a control device was born in the engineer's mind as a fire raged in the city. Working through the night, William Fisher hand-throttled the steam-driven pumps to maintain pressure in the city's mains. During that fire, he saw a need for a device that would both control the steam-driven pumps and maintain them at a constant pressure. Many months and trials later, William Fisher was finally satisfied with one of his designs and began manufacturing what we know today as the Fisher™ Type 1 constant pressure pump governor. He was granted a patent in 1884.

One thing remained the same since William Fisher's first Type 1 pump governor: a pledge to unequalled quality. Today, the brand name Fisher is synonymous with quality throughout the world.



The Fisher Years

- 1880 Type 1 pump governor is invented by William Fisher.
- 1888 The Fisher Governor Company is incorporated on Dec. 26.
- 1906 William Fisher dies. His wife, Martha, becomes president.
- 1912 Jasper Fisher assumes presidency; first sales offices are established.
- 1937 Serial number 500,000 assigned to a Type 1 pump governor on Nov. 5.
- 1938 Jasper Fisher dies.
- 1940 First Western Union teletype machine is installed to speed communication.
- 1943 One millionth serial number assigned lune 9
- 1944 Mrs. J.H. Fisher is elected president.
- 1946 Sales department holds first school for field representatives.
- 1950 Two-millionth controller made. Fisher enters licensee agreement with Elliott Automation to manufacture products for England and Europe.
- 1954 Mrs. J.H. Fisher retires; J.W. (Bill) Fisher is elected president.
- 1955 New office building opens in Marshalltown.
- 1960 Ball valves are added to Fisher's product line. Licensing agreement reached to manufacture in Japan.
- 1965 Gas regulator department moves to McKinney, Texas.
- 1967 Governor Road facility, the most advanced machine shop of its kind in the world, begins operation in Marshalltown.
- 1969 Fisher begins manufacturing electronic instrumentation. Bill Fisher remains as Chairman of the Board until 1974.
- 1970 Our first European facility opens at Cornwall, England, to manufacture electronic instrumentation.

- 1972 The R.A. Engel Technical Center, Marshalltown, is completed, housing the world's most advanced flow test laboratory.
- 1975 A new electronics manufacturing facility is opened in Marshalltown.
- 1976 Production of our new line of rotary valves begins in Sherman, Texas. Fisher Brazil opens its doors.
- 1979 Fisher Controls Corporation of Delaware forms a stronger manufacturing, sales and service organization.
- 1980 Fisher celebrates a Century of Control.
- 1992 ISO 9001 original registration validated, McKinney, Texas

The Emerson Years

- 1993 Fisher Controls and Rosemount, merge under ownership of Emerson Electric.
- 1994 Francel, Gallardon, France, acquired, expanding manufacturing and distribution in Europe, Middle East and Africa.
- 1996 Type 299 pilot-operated regulator introduced to natural gas market.
- 1997 The 50th anniversary of the Type 99. The FloBoss 503 and Regulator Vault are introduced.
- 1998 Fisher Regulators FROMEX manufacturing plant opens in Nuevo Laredo, Mexico.
- 1999 Revolutionary Type EZR pressure regulator introduced.
- 2001 Tartarini, Bologna, Italy, acquired, extending Fisher's brand and distribution capability in Europe and Asia.
- 2003 Manufacturing capability expanded with opening of Shanghai Plant.
- 2003 New, state-of-the-art flow test laboratory opens in McKinney, Texas.

- 2004 Introduced digitally controlled odorant injection system.
- 2004 Jeon, Chengdu, China, acquired, expanding Fisher's presence in China's low-pressure regulator market.
- 2005 Fisher celebrates its 125th anniversary.
- 2005 EZ Family product lines, EZR, EZH and EZL pressure regulators expanded.
- 2005 Customer Center opened to display new regulator technology and train customers and sales channel.
- 2005 Tescom Corporation, Elk River, Minnesota, and Selmsdorf, Germany, manufacturer of high-pressure, highpurity pressure regulators, acquired.
- 2006 Type SR stainless steel Sanitary Regulator introduced.
- 2007 Commercial Service Regulators platform introduced featuring True Monitor™ Protection, Slam-Shut and Secondary Seat™ Protection options.
- 2007 Cluj, Romania, manufacturing location online.
- 2008 Regulator Division becomes Emerson Process Management Regulator Technologies, Inc.
- 2013 Enardo, Tulsa, Oklahoma, Acquired, expands Fisher's storage tank solutions for oil and gas, petrochemical and chemical industries.
- 2014 New Global Regulator Techologies Headquarters opens in McKinney, Texas.
- 2015 Type CS804 regulator with integral slamshut is added to CS800 Series.
- 2015 New product launches for MR95 and MR98 Series
- 2015 Emerson celebrates its 125th year anniversary

You Demand High Performance. **We Ensure It.**



You demand products to withstand your toughest conditions, while delivering continued optimal performance, efficiency, reliability and safety.

Emerson™ design, test and evaluation technologies and techniques validate a full range of product offerings in each of these critical areas, providing flow, material and environmental testing under real-world operating conditions before you place them in your application.

Emerson has more than 130 years of application experience in the process industry, with a reputation for solving challenging problems and developing products to specifications exceeding regulatory guidelines. Count on Emerson capabilities worldwide to deliver the highest quality products available to your site.

Environmental Testing

standards

 Simulates real-world operating conditions from the deserts of the Middle East to the Arctic North

requirements, national standards, and our own, still higher, brand

Analyzes and troubleshoots field installations for contamination and

composition at an elemental level

- Validates product lifecycles at field conditions to extend service life
- Verifies product corrosion resistance using extended salt-spray exposure to ensure environmental protection of process equipment



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Where applicable, Fisher™ brand products presented in this catalog are listed by Underwriters Laboratories (UL®). Use of these products may provide compliance with standards developed by the National Fire Protection Association's Pamphlets 54 and 58. They may also assist in meeting guidelines established by the Department of Transportation, ASME and other third party agencies. Contact your Fisher brand LPG Regulators and Equipment Distributor for assistance in determining product applications.







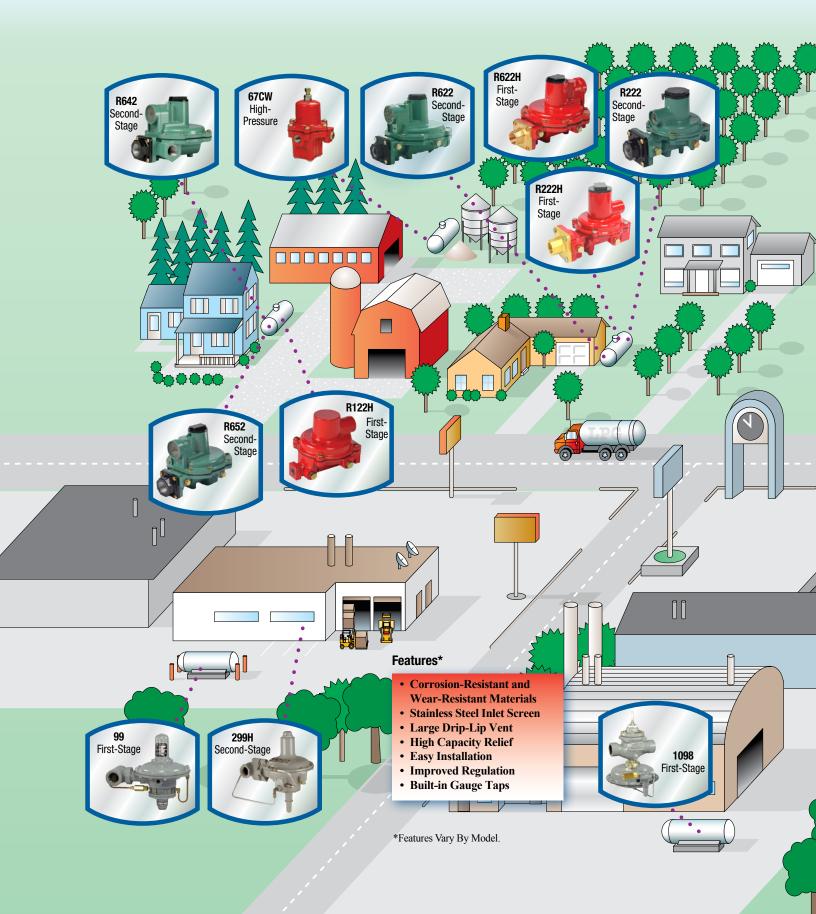




FISHER Application: Regulators

Introduction

The regulator truly is the heart of an LPG installation. It must compensate for variations in tank pressure from 8 to 250 psig / 0.55 to



LPG REGULATORS

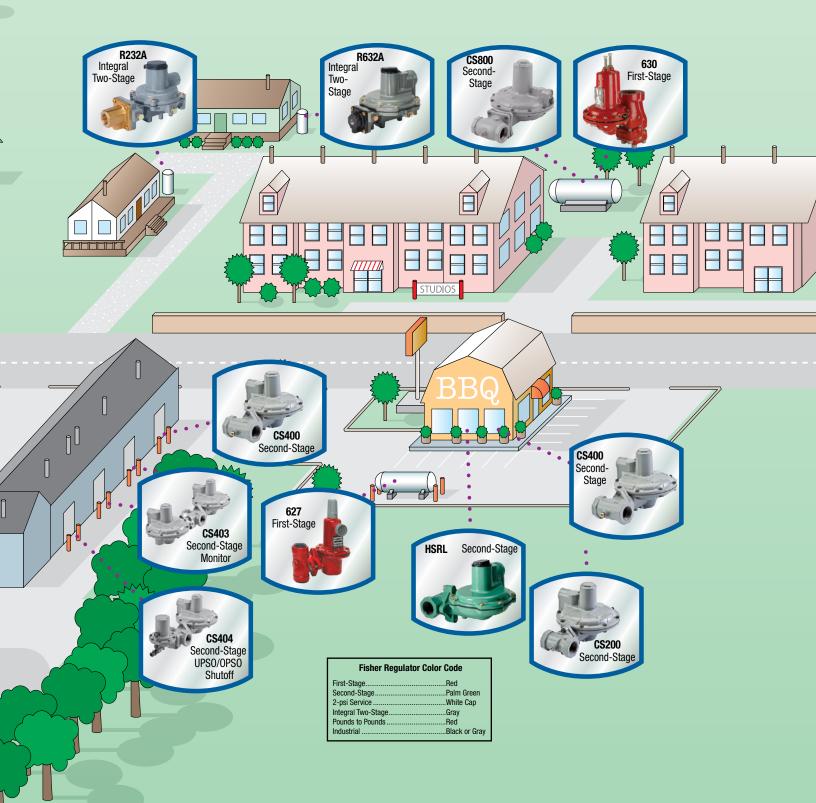
17.2 bar and deliver a constant outlet pressure of LPG typically at 11 in. w.c. / 27 mbar to consuming appliances. The regulator must deliver this pressure despite the intermittent use of the appliances.

In propane service, NFPA 58 requires Two-Stage regulation on all fixed piping systems that serve 14 in. w.c. / 35 mbar appliance systems (normally operated at 11 in. w.c. / 27 mbar pressure). Two-Stage regulation produces a nearly constant

pressure to the appliance and can result in a more efficient LPG operation for the dealer resulting in less maintenance and fewer installation call-backs.

With properly selected regulators, the internal relief valve provides 2 psig / 0.14 bar overpressure protection as required by NFPA 58.

Emerson Process Management Regulator Technologies Inc. (EmersonTM) is a leading international supplier of cost-effective products, services and solutions used in the propane industry. Around the world, Emerson and its distributors offer quality products as well as applications engineering, education programs, and after sales service. For any of the products described in this catalog, contact the FisherTM LPG Equipment distributor near you.



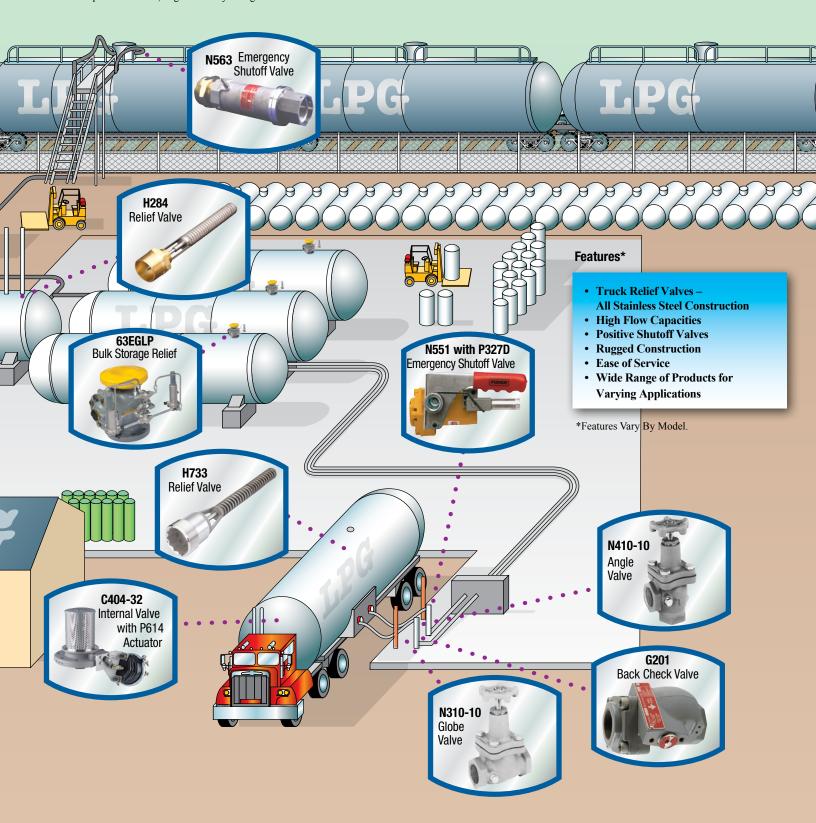
FISHER Application: Valves and Relief Valves

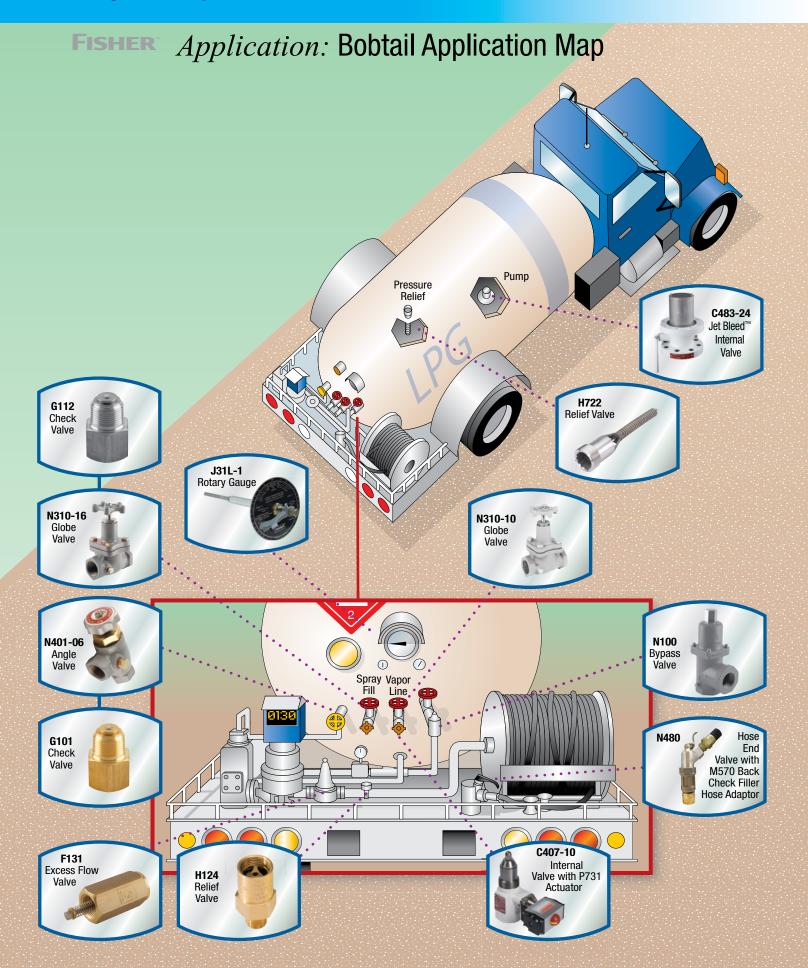


Introduction

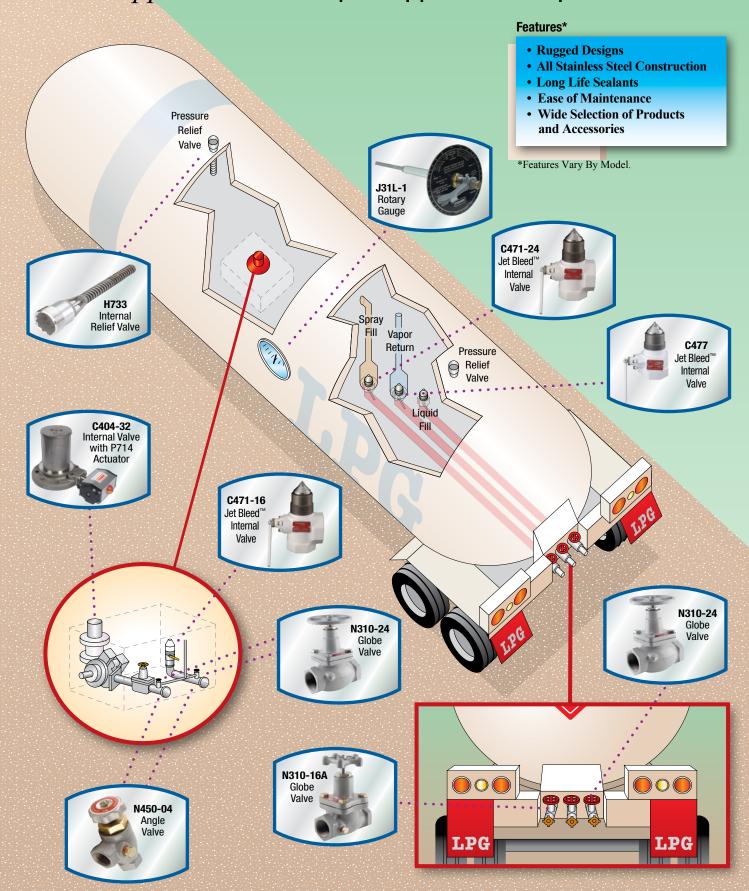
FisherTM brand internal valves, relief valves, emergency shutoff valves and globe and angle valves are installed in the inlets and outlets (liquid or vapor) of pressure vessels and in piping systems to control the flow of LPG and Anhydrous Ammonia (NH $_3$). These valves are frequently used on bobtails, transport truck tanks, large stationary storage tanks and in-line installations.

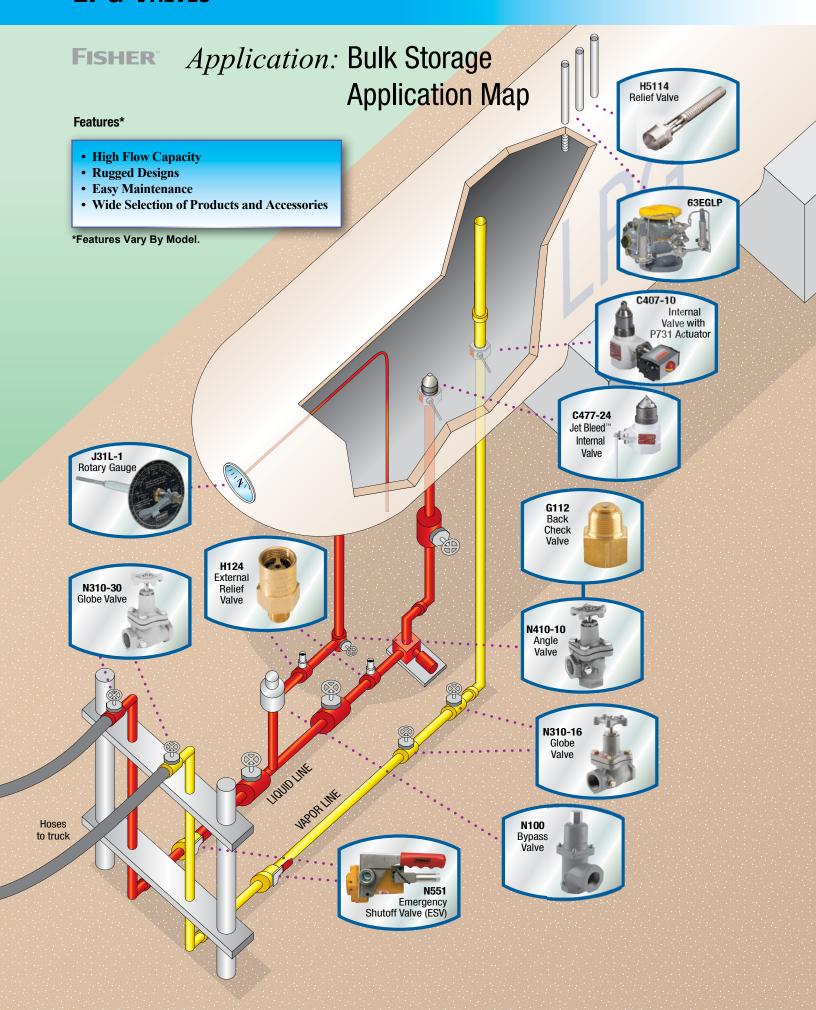
The valves provide a means of withdrawing and filling product with or without pumps and compressors. These valves may be used as primary shutoff valves, excess flow valves and back check valves. No one offers a more complete line of LPG Equipment to match your job specification.





Application: Transport Application Map FISHER





COMMERCIAL/INDUSTRIAL HIGH-PRESSURE REGULATORS

PRODUCT Type	MAXIMUM INLE PRESSURE	OUTLET PRESSURE RANGE	RATED CAPACITY*(1)	TYPE Number
Page 30	250 psig / 17.2 bar	3 to 120 psig / 0.21 to 8.3 bar	1.2M BTU per hour / 13.5 SCMH	67C Series
Page 31	250 psig / 17.2 bar	3 to 100 psig / 0.21 to 6.9 bar	5.25M BTU per hour / 59.1 SCMH	64 Series
Page 32	250 psig / 17.2 bar	5 to 40 psig / 0.35 to 2.8 bar	20.95M BTU per hour / 235 SCMH	627 Series
Page 32	250 psig / 17.2 bar	8 to 20 psig / 0.55 to 1.4 bar	14M BTU per hour / 158 SCMH	630 Series
Page 34	300 psig / 20.7 bar	7 in. w.c. to 65 psig / 17 mbar to 4.5 bar	74.3M BTU per hour / 836 SCMH	99 Series
Page 35	400 psig / 27.6 bar	3 to 100 psig / 0.21 to 6.9 bar	1.2B BTU per hour / 13,481 SCMH	1098 Series

^{*}See capacity tables in the following sections for expanded rating information.

1. Based on inlet pressure 20 psig / 1.4 bar greater than outlet with 20% droop, unless otherwise noted.

COMMERCIAL/INDUSTRIAL LOW-PRESSURE REGULATORS

PRODUCT Type	MAXIMUM INLET PRESSURE	OUTLET PRESSURE RANGE	RATED CAPACITY*(1)	TYPE Number
Page 36	125 psig / 8.6 bar	3.5 in. w.c. to 2 psig / 9 mbar to 0.14 bar	3.9M BTU per hour / 43.8 SCMH ⁽³⁾	CS200 Series
Page 36	125 psig / 8.6 bar	3.5 in. w.c. to 5.5 psig / 9 mbar to 0.38 bar	8.9M BTU per hour / 100 SCMH ⁽²⁾	CS400 Series
Page 36	125 psig / 8.6 bar	8 in. w.c to 5.5 psig / 20 mbar to 0.38 bar	20M BTU per hour/ 224 SCMH	CS800 Series
Page 40	60 psig / 4.1 bar	1.5 to 3 psig / 0.10 to 0.21 bar	66.15M BTU per hour/ 745 SCMH ⁽²⁾	Type 133H
Page 40	60 psig / 4.1 bar	8.5 to 18 in. w.c. / 21 to 45 mbar	70.8M BTU per hour / 797 SCMH ⁽³⁾	Type 133L
Page 40	150 psig / 10.3 bar	9 in. w.c. to 16 psig / 22 mbar to 1.1 bar	38M BTU per hour / 428 SCMH	299H Series
Page 40	150 psig / 10.3 bar	7 in. w.c. to 5 psig / 18 mbar to 0.35 bar	63.25M BTU per hour/ 712 SCMH 556,000	99-500P Series
Page 44	250 psig / 17.2 bar	3 in. w.c. to 5 psig / 7 mbar to 0.35 bar	BTU per hour / 6.2 SCMH ⁽⁴⁾	912 Series

^{*}See capacity tables in the following sections for expanded rating information.

1. Based on inlet pressure 20 psig / 1.4 bar greater than outlet with 20% droop, unless otherwise noted.

^{2.} Based on 10 psig / 0.69 bar inlet pressure setting and 20% droop.
3. Based on 10 psig / 0.69 bar inlet pressure setting and 2 in. w.c. / 5 mbar droop.
4. Types 912-101 and -104 rating at 30 psig / 2.1 bar inlet.

FIRST-STAGE REGULATORS

PRODUCT Type	MAXIMUM INLET PRESSURE	OUTLET PRESSURE SETTING/SETPOINT	RATED CAPACITY*(1)	TYPE Number
Page 25	250 psig / 17.2 bar	10 psig / 0.69 bar +/- 1 psig / 69 mbar nominal outlet setting (non-adjustable)	1.1M BTU per hour / 12.4 SCMH	R122H Series
Page 25	250 psig / 17.2 bar	5 or 10 psig / 0.35 or 0.69 bar standard setpoints	2.0M BTU per hour / 22.5 SCMH	R222H Series
Page 25	250 psig / 17.2 bar	5 or 10 psig / 0.35 or 0.69 bar standard setpoints	2.4M BTU per hour / 27.0 SCMH	R622H Series

SECOND-STAGE REGULATORS(3)

PRODUCT Type	MAXIMUM INLET PRESSURE	STANDARD Setpoint	RATED CAPACITY* ⁽²⁾	TYPE Number
Page 26	10 psig / 0.69 bar	9 to 13 in. w.c. / 22 to 32 mbar	2.6M BTU per hour / 29.3 SCMH	Type HSRL
Page 26	10 psig / 0.69 bar	11 in. w.c. / 27 mbar	650,000 BTU per hour / 7.3 SCMH	R222 Series
Page 26	10 psig / 0.69 bar	11 in. w.c. / 27 mbar	1.4M BTU per hour / 15.8 SCMH	R622 Series
Page 26	10 psig / 0.69 bar	11 in. w.c. / 27 mbar	920,000 BTU per hour / 10.4 SCMH	R642 Series
Page 26	10 psig / 0.69 bar	11 in. w.c. / 27 mbar	1M BTU per hour / 11.2 SCMH	R652 Series

^{*}See capacity tables in the following sections for expanded rating information.

1. Based on 30 psig / 2.1 bar inlet pressure and 20% droop.

2. Based on 10 psig / 0.69 bar inlet pressure setting.

3. Second-Stage regulators are UL® rated.

2-PSI SERVICE REGULATORS

PRODUCT Type	MAXIMUM INLET PRESSURE	STANDARD SETPOINT	RATED CAPACITY*(1)	TYPE Number
Page 27	10 psig / 0.69 bar	2 psi / 0.14 bar	1.68M BTU per hour / 18.9 SCMH	R622E Series
Page 27	10 psig / 0.69 bar	2 psi / 0.14 bar	1.5M BTU per hour / 16.9 SCMH	R652E Series

INTEGRAL TWO-STAGE REGULATORS

PRODUCT Type	MAXIMUM INLET PRESSURE	STANDARD SETPOINT	RATED CAPACITY*(2)	TYPE Number
Page 28	250 psig / 17.2 bar	First-Stage: Approximately 10 psig / 0.69 bar (non-adjustable) Second-Stage: 11 in. w.c. / 27 mbar	550,000 BTU per hour / 6.2 SCMH	R232A Series
Page 28	250 psig / 17.2 bar	First-Stage: Approximately 10 psig / 0.69 bar (non-adjustable) Second-Stage: 11 in. w.c. / 27 mbar	950,000 BTU per hour / 10.7 SCMH	R632A Series

^{*}See capacity tables in the following sections for expanded rating information. 1. Based on 10 psig / 0.69 bar inlet pressure setting and 20% droop. 2. Based on 30 psig / 2.1 bar inlet pressure setting and 2 in. w.c. / 5 mbar droop.

INTEGRAL TWO-PSIG REGULATORS

PRODUCT Type	MAXIMUM INLET PRESSURE	STANDARD SETPOINT	RATED CAPACITY*(1)	TYPE Number
Page 29	250 psig / 17.2 bar	First-Stage: Approximately 10 psig / 0.69 bar (non-adjustable) Second-Stage: 2 psi / 0.14 bar	500,000 BTU per hour / 5.6 SCMH	R232E Series
Page 29	250 psig / 17.2 bar	First-Stage: Approximately 10 psig / 0.69 bar (non-adjustable) Second-Stage: 2 psi / 0.14 bar	900,000 BTU per hour / 10.1 SCMH	R632E Series

BACKPRESSURE REGULATORS/RELIEF VALVES

PRODUCT Type	MAXIMUM WORKING PRESSURE	RELIEF PRESSURE SETTING	RELIEF Capacity*	TYPE Number
	300 psig / 20.7 bar	100 psig / 6.9 bar	93.1 GPM / 352 I/min Propane	Type MR98H
Page 43	25 psig / 1.7 bar	15 psig / 1.0 bar	20,000 SCFH / 566 SCMH Propane	Type 289H
Page 43 Page 43	150 psig / 10.3 bar	30 psig / 2.1 bar	12,000 SCFH / 340 SCMH Propane	Type 1805

^{*}See capacity tables in the following sections for expanded rating information. 1. Based on 30 psig / 2.1 bar inlet pressure setting and 20% droop.

INTERNAL/EXTERNAL RELIEF VALVES

PRODUCT Type	MAXIMUM INLET PRESSURE (BODY RATING)	STANDARD Setpoint	CAPACITY*	TYPE Number
Page 69	480 psig / 33.1 bar	85 to 375 psig / 5.9 to 26 bar	Up to 47,164 SCFM / 84,170 SCMH	Type 63EGLP
Page 68	480 psig / 33.1 bar	125 to 312 psig / 8.6 to 21.5 bar	UL: Up to 11,635 SCFM / 20,764 SCMH Air ASME: Up to 15,286 SCFM / 18,097 SCMH Air	H284 and H5114 Series
Page 67	480 psig / 33.1 bar	125 to 312 psig / 8.6 to 21.5 bar	UL: Up to 11,315 SCFM / 19,940 SCMH Air ASME: Up to 13,876 SCFM / 16,400 SCMH Air	H722 and H733 Series
Page 70	420 psig / 29.0 bar	35 to 350 psig / 2.4 to 23.8 bar Fixed Setting	Up to 2456 SCFM / 4173 SCMH	H100 Series

BYPASS AND BACKPRESSURE VALVES

PRODUCT Type	MAXIMUM WORKING PRESSURE	RELIEF PRESSURE RANGE	BODY SIZE AND END CONNECTION STYLE	TYPE Number
Page 74	400 psig / 27.6 bar	10 to 150 psig / 0.69 to 10.3 bar	3/4 to 2 in. FNPT	N100 Series

^{*}See capacity tables in the following sections for expanded rating information.

INTERNAL VALVES

DDODUCT	PRESSURE	EXCESS FLOW		ТҮРЕ
PRODUCT Type	RATING	SPRING	CAPACITY*	NUMBER
Page 47	400 psig / 27.6 bar WOG	30 to 80 GPM / 113 to 302 I/min	19,200 SCFH / 544 SCMH Propane	C407-10 Series
Page 47	400 psig / 27.6 bar WOG	60 to 460 GPM / 227 to 1741 I/min	178,000 SCFH / 5040 SCMH Propane	C471-16, -24 Jet Bleed Internal™ Series
	400 psig / 27.6 bar WOG	100 to 460 GPM / 379 to 1741 I/min	178,000 SCFH / 5040 SCMH Propane	C477-16, -24 and C486-24 Jet Bleed Internal™ Series
Page 47 Page 53	400 psig / 27.6 bar WOG	160 to 400 GPM / 606 to 1514 I/min	190,000 SCFH / 5380 SCMH Propane	C483-24 Jet Bleed Internal™ Series
, ago so	400 psig / 27.6 bar WOG	160 to 400 GPM / 606 to 1514 I/min	190,000 SCFH / 5380 SCMH Propane	C484-24 Jet Bleed Internal™ Series
Page 53 Page 55	400 psig / 27.6 bar	340 to 1000 GPM / 1287 to 3785 I/min	356,200 SCFH / 10,088 SCMH	Type C404-32

 $^{{}^{\}star}\text{See}$ capacity tables in the following sections for expanded rating information.

BACK CHECK VALVES

PRODUCT Type	SEAT CONSTRUCTION	PRESSURE RATING	CAPACITY*	TYPE NUMBER
Page 72	Soft Seat and Metal Seat	250 psi / 17.2 bar	254 GPM / 961 I/min Propane	G100 Series
Page 72	Soft Seat	400 psig / 27.6 bar WOG	Up to 1620 GPM / 6132 l/min Propane	G200 Series

EMERGENCY SHUTOFF VALVES

PRODUCT Type	BODY SIZE AND END CONNECTION STYLE	MAXIMUM INLET PRESSURE	CAPACITY*	TYPE Number
Page 62	1-1/4, 2 or 3 in. FNPT	400 psig / 27.6 bar	up to 850 GPM / 3127 I/min Propane	N551 Series
Page 64	2 in. FNPT	400 psig / 27.6 bar	200 GPM / 757 I/min Propane	N562 Series
Page 64	2 in. FNPT	400 psig / 27.6 bar	413 GPM / 1563 l/min Propane	N563 Series

 $^{{}^{\}star}\text{See}$ capacity tables in the following sections for expanded rating information.

GLOBE AND ANGLE VALVES

PRODUCT Type	SELECTION DESCRIPTION	ADLDATIM' AND		TYPE Number
Page 71	Globe Valve (Heavy Duty Version)	400 psig / 27.6 bar	1/2 to 3 in. FNPT and 3 in. / DN 80 CL300 RF Flange	N301, N310 Series
Page 71	Globe Valve (Economy Version)	400 psig / 27.6 bar	1/2 to 3/4 in. FNPT	N350 Series
Page 71	Angle Valve (Heavy Duty Version)	400 psig / 27.6 bar	1/2 to 3 in. FNPT and 3 in. / DN 80 CL300 RF Flanged	N401, N410 Series
Page 71	Angle Valve (Heavy Duty Version)	400 psig / 27.6 bar	1/2 to 3/4 in. FNPT	N450 Series

 $^{{}^{\}star}\text{See}$ capacity tables in the following sections for expanded rating information.

VALVES

PRODUCT Type	PRODUCT/ FUNCTION	SELECTION INFORMATION	TYPE NUMBER
Page 66	Excess Flow Valve	Brass or Steel body in a variety of Inlet and Outlet Connection Sizes and Styles; Up to 10.7 psi / 0.74 bar differential pressure	F Series
Page 73	Filler Valve	2 in. MNPT x 2-1/4 in. ACME or 3 in. MNPT x 3-1/4 in. ACME; Single or Double Back Check style; 275 GPM / 1041 I/min filling capacity	D Series
Page 73	Hose End Valve	1-3/4 in. ACME x 1 in. NPT; Ductile iron body	Type N480
Page 73	Liquid Transfer Valve	3/4 MNPT x 1-3/4 in. Male ACME	N456 Series
Page 81	Cylinder Filling Valve	30 psig / 2.1 bar Recommended Supply Pressure; Aluminum Body	Type N201

^{*}See capacity tables in the following sections for expanded rating information.

LPG Equipment and Accessories Quick Selection Guides

REGULATOR ACCESSORIES

PRODUCT Type	PRODUCT/ Function	SELECTION Information	TYPE Number
Page 44	Screened Vents for Regulator	1/4 in. FNPT to 1 in. MNPT	Y602 Series
Page 45	Regulator Mounting Brackets	Triangular, Bowtie, or Strap Design	Type P100
Page 45	Test Pressure Gauge for Appliance Line Pressure	1/4 in. NPT or Female Hose	50 Series
Page 45	Pressure Gauge	1/4 in. MNPT; 0 to 400 psi / 0 to 27.6 bar; Ranges in MPa, kg/cm², bar	J500 Series
Page 81	Adjustable Orifice Reamer	Drill Size No. 80 through No. 50	Type P520L

LPG EQUIPMENT AND ACCESSORIES QUICK SELECTION GUIDES

BULK STURAGE TANK	AIV	D VALVE AUULUU	UIIII	iLO
PRODUCT Type	ı	PRODUCT/ Function		SELECTION TYPE INFORMATION NUMBER
Page 76		Rotary Level Gauge for Stational or Mobile Tank		68 to 140 in. / 1727 to 3556 mm Lengths
Page 76		Liquid Level Vent Valves		3/4 in. MNPT for FNPT Connection; with or without Pressure Gauge J400 Series
Page 76		Container (Tank) Thermometer		1/2 in. MNPT; -40 to 120°F / -40 to 49°C J700 Series
Page 77		Female ACME Filler Couplings		1-3/4 in. Female ACME by 1/2 in. MNPT through 4-1/4 in. Female ACME by 3 in. MNPT
Page 77		Female ACME Vapor Return Couplings		1-3/4 in. Female ACME by 3/4 in. MNPT through 2-1/4 in. Female ACME by 1-1/4 in. MNPT
Page 77		O-ring for Male Adaptors		For 2-1/4 or 3-1/4 in. Adaptors to Give a Better Seal than Washers
Page 77		Adaptor Caps		2-1/4 through 4-1/4 in. Female ACME by 1-3/4 through 3-1/4 in. Male ACME
Page 77		POL Filler Coupling		Soft-Nose Male POL by 1/4 in. MNPT
Page 78		Filler Valve Adaptor	D	For Filler Valves with 1-3/4 in. Male ACME Filler Connection and a 3/4 in. FNPT Outlet

LPG Equipment and Accessories Quick Selection Guides

PRODUCT Type	PRODUCT/ Function	SELECTION Information	TYPE Number
	Swivel POL Adaptor with Metal Seats	Straight or Angle Male POL by 1/4 in. MNPT	Type M318
Page 60	Auxiliary Remote Cable Release for Internal Valves	With 25 or 50-Feet / 7.6 or 15.2 m Cable or without Cable	Type P163A
Page 60	Handle- or Cable-Operated Latch/Remote Release for Internal Valves	Built-In Fusible Link to Close Valve in Case of Fire	Type P313
Page 60	Primary Cable Control for Internal Valves	4, 5, or 6 in. / 102, 137 or 152 mm Travel	Type P650
Page 60	Cable Control, Release Mechanism and Cable Assembly for Internal Valves	For 1-1/4, 2, 3 and 4 in. / DN 32, 50, 80 and 100 Internal Valves	Type P314
Page 68	Relief Valve Pipeaway Adaptors for DOT	For Use with Types H284, H5114, H125, H150, H148 and H173 Valves	Types P104-24, P174
Page 78	Filler Hose Adaptor with Back Check Valve	1-3/4 in. Female ACME by 1-3/4 in. Male ACME	Type M570

LPG EQUIPMENT AND ACCESSORIES QUICK SELECTION GUIDES

PRODUCT Type	PRODUCT/ FUNCTION	ı	SELECTION Information		TYPE Number
	Pneumatic Actuator		For Use with C407-10 Series Only		Types P389 and P731
Page 61 Page 61	Pneumatic Actuator	Þ	For Type C484-24 Jet Bleed Internal™ Valve	•	Types P613 and P713
Page 61	Pneumatic Actuator	Þ	For Type C483-24 Jet Bleed Internal™ Valve		Types P623 and P723
Page 61	Pneumatic Actuator	Þ	For Types C471 and C477 Jet Bleed Internal™ Valves (2 and 3 in. NPT Sizes)		Types P639 and P739
Page 61	Pneumatic Actuator		For Type C404-32 4 in. / DN 100 Single Flanged Valve		Types P614A and P714
Page 62	Pneumatic Actuator		For Closing and Opening of N551 Series Snappy Joe [™] Emergency Shutoff Valves (ESVs)		Type P539A

LPG Equipment and Accessories Quick Selection Guides

PRODUCT Type	PRODUCT/ FUNCTION	SELECTION INFORMATION	TYPE Number
Page 61	Fuse Plug	208 to 220°F / 98 to 104°C Melting Temperature, Available in 1/8 and 1/4 in. MNPT Sizes	T1140399982 / T1033699982
Page 70	Protective Caps for Relief Valves	For Types H110 through H174 Valves	Type P206
Page 78	Seals and Plugs for Female ACME Threads	1-1/4 to 4-1/4 in. Male ACME	Types M178, M535-34
Page 79	Female ACME Caps	Hand or Wrench Installation	Type M108
Page 80	Clamp Hose Couplings	Swivel or Standard: 1/2 in. MNPT through 4-1/4 in. Female ACME for 1/2 through 3 in. Hose	Type M3162
Page 81	Spanner Wrench for Large Female ACME Caps and Couplings	For Use with 2-1/4 through 4-1/4 in. ACME Threads	Type P120B
Page 80	Ring and Chain Assemblies	For 1-1/4 through 4-1/4 in. ACME Caps or Dust Seals	Types P147, P167 and P183

Two-Stage System

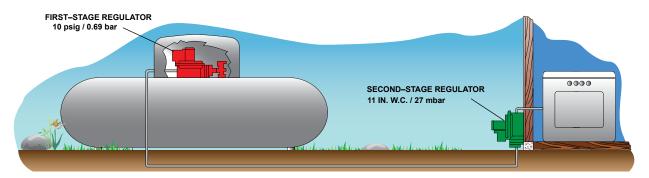


Figure 1. Two-Stage Regulation, One at Tank and One at Building, Reduce Pressure Down to Burner Pressure (11 in. w.c. / 27 mbar)

Two-Stage Systems

Emerson™ Fisher™ brand makes the LPG industry's largest variety of First and Second-Stage regulators for domestic and commercial/industrial applications.

A Two-Stage system (Figure 1) uses two regulators to cut the supply pressure from the storage tank to the appliance. The Two-Stage system supplies a constant outlet pressure to the appliance. With more uniform pressure, appliances work better. Single-Stage regulators should be replaced with Two-Stage or Integral Two-Stage systems to comply with code requirements such as NFPA 58.

With a Two-Stage system, a First-Stage regulator supplies a nearly constant inlet pressure around 8 to 10 psig / 0.55 to 0.69 bar to a Second-Stage regulator. This means the Second-Stage unit does not have to attempt to compensate for widely varying inlet pressures. Second-Stage pressure can be adjusted at the building as desired.

First-Stage Regulators

First-Stage regulators reduce tank pressure to a lower pressure (usually 10 psig / 0.69 bar) for a Second-Stage regulator. Fisher brand First-Stage regulators are painted red for easy identification. Vents are screened with standard orientation over the outlet.

Two-psi Service Regulators

Two-psi Service regulators serve as an intermediate regulator after the First-Stage regulator. These regulators are designed for 2 psig / 0.14 bar LPG regulator systems. Fisher brand 2-psi regulators are painted white or are green with white closing caps for easy identification.

Second-Stage Regulators

Second-Stage regulators reduce the pressure from a First-Stage unit to 11 in. w.c. / 27 mbar in domestic installations. Vents are screened with standard orientation over the inlet; however, other vent orientations are available. Fisher brand Second-Stage regulators are normally painted palm green for easy identification.

Integral Two-Stage Regulators

Integral Two-Stage units combine a First-Stage regulator and Second-Stage regulator into one compact unit and are recommended for installations where piping distance between the building being served and the tank is short. Integral Two-Stage regulators provide all the advantages of Two-Stage regulation. These units are color coded gray for easy identification. Vents are screened with standard orientation over the outlet.

Five Reasons to Two-Stage

1. Compliance with Code Requirements such as NFPA 58

2. Fewer Trouble Calls

With a Two-Stage system, one can expect fewer customer trouble calls due to regulator freeze-ups from too much water in the gas. A Two-Stage regulator reduces these possibilities in two ways:

- a) a larger orifice can be used, making it more difficult for ice to build up and block the orifice, and
- b) more heat can be transferred through the walls of two regulators than one

3. Smaller Pipe or Tubing

Due to the higher pressure between the First and Second-Stage units, smaller pipe or tubing can be used on a Two-Stage system. These savings can make a Two-Stage system more economical to install than a Single-Stage.

4. Constant Appliance Pressure

With a Two-Stage system, a First-Stage regulator supplies a nearly constant inlet pressure of 8 to 10 psig / 0.55 bar to 0.69 bar to a Second-Stage regulator. This means that the Second-Stage regulator does not have to attempt to compensate for widely varying inlet pressures. With more uniform pressure, appliances work better and customers are less likely to experience problems that result in service calls.

5. Keep Downstream Pressure Below 2 psig / 0.14 bar

Second-Stage and Integral Two-Stage regulators have internal pressure relief valves, which limit the outlet pressure to 2 psig / 0.14 bar when the seat disc is removed and the inlet pressure is 10 psig / 0.69 bar or less as specified in *UL 144, STANDARD FOR LPG REGULATORS*.

When to Two-Stage

Two-Stage systems whenever the following conditions exist:

- 1. Compliance with regulation codes.
- 2. There is a possibility of moisture in the LPG.
- 3. Wide fluctuations in gas demand exist.
- 4. Winter and summer temperatures vary greatly.

FIRST-STAGE REGULATORS







Types R122H, R222H and R622H First-Stage Regulators are Underwriters Laboratories (UL®) listed regulators designed for Two-Stage LPG systems. These First-Stage regulators reduce tank pressure to a lower pressure (usually 10 psig / 0.69 bar) for a Second-Stage regulator. Maximum allowable inlet pressure is 250 psig / 17.2 bar. Fisher™ brand First-Stage regulators are painted red for easy identification. Vents are screened with standard orientation over the outlet. The Types R122H, R222H and R622H regulators have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher internal testing for lockup, relief start-todischarge and reseal down to -40°F / -40°C. The design's superior relief performance exceeds UL® requirements and provides double failure overpressure protection (pressure downstream of the second regulator will be limited close to 2 psig / 0.14 bar, even if both regulators are damaged) when used with R600 Series Second-Stage regulator. Corrosion and wear resistant materials and stainless steel internal parts provide a recommended replacement life of 20 years. A large fabric reinforced diaphragm with molded lips provide precise regulation. The large precision machined orifice assists in minimizing freeze problems. 1/8 in. inlet and outlet gauge taps allow easy system testing. Large inlet and outlet wrench flats

for easy installation. The unit's Fluorocarbon (FKM) valve disc provides better lockup performance and durability in contaminated gas. The vent is with 3/8 in. NPT for easy installation of vent piping.

Type R122H – Designed for use in domestic applications, the Type R122H's size makes it perfect for tight installations. Its non-adjustable setpoint makes the unit virtually tamper proof. The outlet pressure setpoint remains at a nominal factory setting of 10 psig / 0.69 bar.

Type R222H – First stage regulator with all Type R622H benefits stated above, but with a compact profile. 65% greater flow than typical compact regulators but with a 40% smaller footprint. It is perfect for underground tanks or limited dome spaces.

Type R622H – High Flow First-Stage regulator with multiple end connections and adjustable outlet pressure spring ranges. A large 3/4 in. FNPT drip-lip vent reduces the chance of blockage by freezing rain or sleet when properly installed with the vent pointing down. Each Type R622H is equipped with a corrosion-resistant internal relief valve that provides high capacity relief and a travel stop on the closing cap. Its size and configuration make it ideal for under-the-dome installations.

	First-Stage Regulators									
TYPE	CAPACITIES (PROPANE)(1)(3)		INLET OUTLET CONNECTION, IN. CONNECTION,		OUTLET ADJUSTMENT RANGE		OUTLET PRESSURE SETTING		NOMINAL RELIEF VALVE START-TO- DISCHARGE	
	BTU / hr	SCMH			psig	bar	psig	bar	psig	bar
R122H-AAJ	1.100.000	12.4	1/4 FNPT	1/2 FNPT	Non-Ad	ljustable	10	0.69		
R122H-AAJXB ⁽²⁾	1,100,000	12.4	1/4 101	1/2 101	NOII-AC	ijustable	10	0.09		
R222H-BGK	1,700,000	19.1	1/2 FNPT	1/2 FNPT	4 to 6	0.28 to 0.41	5	0.34	9	0.62
R222H-BGJ	1,800,000	20.2	1/21 N1 1	1/2	8 to 12	0.55 to 0.82	10	0.69	16	1.10
R222H-HGK	1,700,000	19.1	EDOL	FPOL 1/2 FNPT	4 to 6	0.28 to 0.41	5	0.34	9	0.62
R222H-HGJ	1,800,000	20.2	PPOL		8 to 12	0.55 to 0.82	10	0.69	16	1.10
R222H-JGK	1,875,000	21.1	FPOL	3/4 FNPT	4 to 6	0.28 to 0.41	5	0.34	9	0.62
R222H-JGJ	1,875,000	21.1	FPOL	3/4 FNP1	8 to 12	0.55 to 0.82	10	0.69	16	1.10
R222H-DGK	2,000,000	22.5	3/4 FNPT	3/4 FNPT	4 to 6	0.28 to 0.41	5	0.34	9	0.62
R222H-DGJ	2,000,000	22.5	3/4 FNP1	3/4 FNP1	8 to 12	0.55 to 0.82	10	0.69	16	1.10
R622H-BGK	2 000 000	22.5	1/2 FNPT	1/2 FNPT		0.00.45				
R622H-HGK	2,000,000	22.5	FPOL	1/2 FNP1	4 to 6	0.28 to 0.41	5	0.34		
R622H-JGK	2,250,000	25.3	FPOL	3/4 FNPT		0.41				
R622H-BGJ	2,100,000	23.6	1/2 FNPT	1/2 FNPT						
R622H-DGJ	2,400,000	27.0	3/4 FNPT	3/4 FNPT	8 to 12	0.55 to	10	0.69		
R622H-HGJ	2,100,000	23.6	FPOL	1/2 FNPT	0 10 12	0.83	10	0.03		
R622H-JGJ	2,250,000	25.3	1100	3/4 FNPT						

- 1. Based on 30 psig / 2.1 bar inlet pressure and 20% droop.
- Vent over gauge taps.
- 3. Metric conversion is based on 2516 BTU/ft³ of gas at 60°F / 16°C.

SECOND-STAGE REGULATORS



Types R222, R622, R642, R652 and HSRL Second-Stage regulators are Underwriters Laboratories (UL®) listed regulators designed to reduce the outlet pressure from a First-Stage regulator, usually 10 psig / 0.69 bar to 11 in. w.c. / 27 mbar, in domestic installations. Vents are screened with standard orientation over the inlet, but other orientations are available. Fisher™ brand Second-Stage regulators are painted palm green for easy identification. Types R222, R622, R642 and R652 are equipped with a stainless steel inlet screen to reduce the amount of debris entering the regulator and have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher internal testing for lockup, relief start-to-discharge and reseal down to -40°F / -40°C.

Type R222 is designed for small domestic applications up to 650,000 BTU per hour / 7.3 SCMH. The unit provides the same features as the Type R622 in a smaller package and its design provides a recommended replacement life of 20 years.

Type R622 is designed for Two-Stage domestic applications up to 1,400,000 BTU per hour / 15.8 SCMH. The Type R622's time proven design and corrosion resistant materials, provide a recommended replacement life of 20 years.

Type R622 contains a high performance relief valve and a large 3/4 in. screened vent to limit downstream pressure to less than

2 psig / 0.14 bar in an overpressure situation as required by NFPA 58. The relief valve design exceeds the industry standard by limiting the downstream pressure to 2 psig / 0.14 bar even in a double failure situation when used with a Type R622H or R122H First-Stage regulator. The Type R622 is adjustable from 9 to 20 in. w.c. / 22 to 50 mbar.

For easy system checks, the Type R622 has 1/8 in. NPT built-in gauge taps orificed to a No. 54 drill size, on both the upstream and downstream sides. This regulator also features a large 3/4 in. drip-lip vent design.

Types R642 and R652 are designed for domestic applications up to 920,000 / 10.4 and 1,000,000 BTU per hour / 11.3 SCMH, respectively. These units provide all the same features as the Type R622, including the 20-year recommended replacement life and double failure protection, in an angle body for the Type R642 and backmounted design for the Type R652.

Type HSRL is an UL listed regulator designed for light commercial applications up to 2,600,000 BTU per hour / 29.3 SCMH. It utilizes a high strength cast iron body and a 3/4 in. NPT drip lip vent design. The PFC and SFC feature an angle-body design. The design also includes a high capacity internal relief valve and a 20-year recommended replacement life.

	Second-Stage Regulators									
TYPE	CAPACITIES	CAPACITIES (PROPANE)(1)		OUTLET CONNECTION,		TLET RE RANGE	OUTLET PRESSURE SETTING			
	BTU / hr	SCMH	IN.	IN.	In. w.c.	mbar	In. w.c.	mbar		
R222-BAF	650,000	7.3	1/2 FNPT	1/2 FNPT	9.5 to 13	24 to 32				
R622-BCF	875,000	9.8	1/2 FNPT	1/2 FNPT						
R622-CFF	1,400,000	15.8	1/2 FNPT			22 to 32	11	27		
R622-DFF	1,400,000	15.6	O/4 ENIDT		9 to 13					
R642-DFF	920,000	10.4	3/4 FNPT	3/4 FNPT						
R652-CFF	4 000 000	11.3	1/2 FNPT							
R652-DFF	1,000,000	11.3	3/4 FNPT							
R622-CFGXA	1,125,000	12.7	1/2 FNPT	3/4 FNPT	13 to 20	32 to 50	18	45		
HSRL-BFC	0.000.000	05.0	O/4 ENIDT	O/A FNIDT		9 to 13 22 to 32	11	27		
HSRL-PFC	2,300,000	25.9	3/4 FNPT	3/4 FNPT	010					
HSRL-CFC	2,600,000	29.3	1 FNPT	1 FNPT	9 10 13					
HSRL-SFC	2,000,000	29.3	IFNET	IFINET						
1. Based on 10 psig / 0.6	9 bar inlet pressure and	2 in. w.c. / 5 mbar dro	op.							

Two-psi Regulators



Types R622E and R652E, Two-psi Service Regulators, are designed for Two-psi LPG Regulator Systems and listed by Underwriters Laboratories (UL®). These units are installed downstream from a First-Stage regulator and reduce an inlet pressure of 10 psig / 0.69 bar to a nominal 2 psig / 0.14 bar outlet pressure. Two-psi Service Regulators are designed for domestic applications that supply 2 psig / 0.14 bar LPG to a line regulator located inside the building. In most cases a manifold is used with corrugated stainless steel tubing (CSST) as well as other acceptable piping materials for routing to the line pressure regulator supplying approximately11 in. w.c. / 27 mbar to appliance regulators.

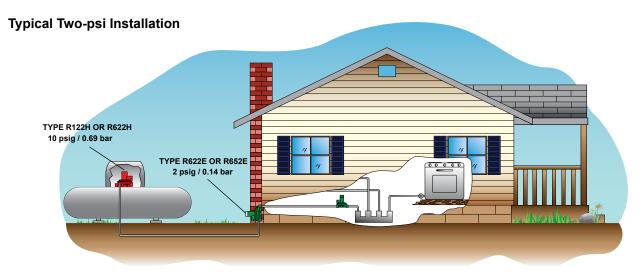
Types R622E and R652E, Two-psi Service Regulators feature a combination relief valve and large vent that provide overpressure protection and exceed UL requirements. Both units have a stainless steel inlet screen to reduce the amount of debris from entering them.



Fisher™ brand Types R622E and R652E are painted green with a white closing cap for easy identification and have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher internal testing for lockup, relief start-to-discharge and reseal down to -40°F / -40°C.

Type R622E – Time proven design constructed of corrosion resistant materials, the Type R622E is designed to provide a recommended replacement life of 20 years. Fisher brand's fabric-reinforced diaphragm and large diaphragm area provide accurate regulation at increased capacities. All components provide superior resistance to field conditions that may cause wear and corrosion. Built-in 1/8 in. taps (orificed to a number 54-drill size) on the upstream and downstream sides allow for easy gas system checks.

Type R652E – Provides the same features as the Type R622E, includes a 20-year recommended replacement life with a back mount design.



Two-psi Service Regulators									
TYPE	CAPACITIES (PROPANE)(1)		CONNECTION	OUTLET PRESSURE RANGE		OUTLET PRESSURE SETTING			
	BTU / hr	SCMH	MH INLET X OUTLET, IN.		bar	psig	bar		
R622E-BCH	1,460,000	16.4	1/2 x 1/2 FNPT	1 to 2.2	69 mbar to 0.15	2	0.14		
R622E-DCH	1,680,000	18.9	2/4 × 2/4 ENDT						
R652E-DFH	1,500,000	16.9	3/4 x 3/4 FNPT						
1. Based on 10 psig / 0.69 bar ii	nlet pressure and 2	0% droop.							

INTEGRAL TWO-STAGE REGULATORS





with the vent pointing down.

CUL)US LISTED

Integral Two-Stage regulators combine a First-Stage regulator and a Second-Stage regulator into one compact unit. Recommended for installations where piping distance is short, integral Two-Stage regulators provide all of the advantages of Two-Stage regulation (refer to page 24). Fisher™ brand integral Two-Stage regulators are color coded gray for easy identification. Vents are screened with standard Second-Stage vent orientation over the outlet. The Types R632A and R232A first-stage screened vent is threaded to accept a 1/4 in. OD copper tube inverted flare with a 7/16-24 UN thread. The Types R232A and R632A have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher internal testing for lockup, relief start-to-discharge and reseal down to -40°F / -40°C.

Type R232A - Designed for installations with small capacity loads up to 550,000 BTU per hour / 6.2 SCMH. With an overall length of 6.5 or 7 in. / 165 or 178 mm for NPT or FPOL connections respectively, this compact unit fits easily into confined spaces and is ideal for ASME tanks used on small domestic loads. Intermediate and outlet gauge taps facilitate easy system testing. A 3/8 in. NPT vent allows easy installation of vent piping. Use of a valve stem and lever provide stable regulation and excellent durability. A large fabric-reinforced diaphragm provides accurate regulation. The large orifice assists in minimizing freeze problems. Stainless steel internal and corrosion resistant coatings provide excellent corrosion resistance. The Type R232A also has the design that provides a recommended replacement life of 20 years.

Type R632A – is an Underwriters Laboratories (UL®) listed regulator with a capacity of up to 950,000 BTU per hour / 10.7 SCMH, recommended for on-site cylinder installations, mobile homes and domestic installations, where separation of the First and Second-Stage is not cost effective. This unit offers a POL inlet connection for the easy drop-in replacement of Single-Stage regulators.

> Twin Cylinder Installations – The Type R232A can also be used on twin cylinder hook-ups found on travel trailers and stationary applications. These units offer a drip-lip vent style for installations without a vent protector. Proper installation requires the vent to be pointed down in a vertical position. Additional protection may be required if road splatter is a problem.

Type R632A's high capacity relief valve and large 3/4 in. screened vent limit downstream pressure to less than 2 psig / 0.14 bar in an overpressure situation as required by NFPA 58. Type R632A is adjustable from 9 to 13 in. w.c. / 22 to 32 mbar, with a factory setpoint of 11 in. w.c. / 27 mbar. The Type R632A features include the 20-year recommended replacement life.

Integral Two-Stage Regulators									
TYPE NUMBER	CAPACITIES (PROPANE)(1)		INLET CONNECTION,	OUTLET CONNECTION,	OUTLET ADJUSTMENT RANGE		OUTLET PRESSURE SETTING		
	BTU / hr	SCMH	IN.	IN.	In. w.c.	mbar	In. w.c.	mbar	
R232A-BBF		6.2	1/4 FNPT	- 1/2 FNPT	10.2 to 13	25 to 32	. 11	27	
R232A-BBFXA ⁽²⁾	550,000		I/4 FNP1						
R232A-HBF	550,000		FPOL						
R232A-HBFXA ⁽²⁾									
R632A-BCF	050,000	9.6		1/2 FNPT	9 to 13	22 to 32			
R632A-BCFXA(2)	850,000		A/A ENIDT	1/2 FINE I					
R632A-CFF	050,000	10.7	1/4 FNPT	3/4 FNPT					
R632A-CFFXA(2)	950,000								
R632A-HCF	050.000	9.6	- FDQI	1/2 FNPT					
R632A-HCFXA(2)	850,000								
R632A-JFF	050,000	9.6	FPOL	2/4 ENDT					
R632A-JFFXA ⁽²⁾	850,000			3/4 FNPT					
Based on 30 psig / 2.1 b	ar inlet pressure ar	nd 2 in wc /5 n	nhar droon						

- 2. First and Second-Stage spring case vents opposite gauge taps.

INTEGRAL Two-psi Regulators



Integral Two-psi regulators combine a First-Stage regulator and a Second-Stage, Two-psi regulator into one compact unit. Recommended for installations where piping distance is short, integral Two-Stage, Two-psi regulators provide all of the advantages of Two-Stage regulation (refer to page 23). Fisher™ brand integral Two-Stage, Two-psi regulators are color coded gray with a white cap and white UV rated cover for easy identification. Vents are screened with standard Second-Stage vent orientation over the outlet. The Types R632E and R232E first-stage screened vent is threaded to accept a 1/4 in. OD copper tube inverted flare with a 7/16-24 UN thread. The Types R23E and R632E have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher internal testing for lockup, relief start-to-discharge and reseal down to -40°F / -40°C.

Type R632E – is an Underwriters Laboratories (UL®) listed regulator with a capacity of up to 810,000 BTU per hour / 9.1 SCMH, recommended for on-site cylinder installations, mobile homes and domestic installations, where separation of the First and Second-Stage is not cost effective. This unit offers a POL inlet connection for the easy drop-in replacement of Single-Stage regulators.

Type R632E's high capacity relief valve and large 3/4 in. screened vent limit downstream pressure to less than 5 psig / 0.34 bar in an overpressure situation as required by NFPA 58. Type R632E is adjustable from 1 to 2.2 psig / 69 to 152 mbar, with a factory setpoint of 11 in. w.c. / 27 mbar. The Type R632E features a 20-year recommended replacement life.



Type R632E has 1/8 in. NPT built-in gauge taps orificed to a No. 54 drill size, on the upstream and downstream sides. These taps provide easy access for testing the proper operation pressure of the First and Second-Stage while the system is pressurized. This regulator also features a large 3/4 in. drip-lip vent to reduce the chance of blockage by freezing rain or sleet when properly installed with the vent pointing down.

Type R232E – Designed for installations with small capacity loads up to 450,000 BTU per hour / 5.1 SCMH. With an overall length of 6.5 or 7 in. / 165 or 178 mm for NPT or FPOL connections respectively, this compact unit fits easily into confined spaces and is ideal for ASME tanks used on small domestic loads. Intermediate and outlet gauge taps facilitate easy system testing. A 3/8 in. NPT vent allows easy installation of vent piping. Use of a valve stem and lever provide stable regulation and excellent durability. A large fabric-reinforced diaphragm provides accurate regulation. The large orifice assists in minimizing freeze problems. Stainless steel internal and corrosion resistant coatings provide excellent corrosion resistance. The Type R232E also has the design that provides a recommended replacement life of 20 years.

Twin Cylinder Installations – The Type R232E can also be used on twin cylinder hook-ups found on travel trailers and stationary applications. These units offer a drip-lip vent style for installations without a vent protector. Proper installation requires the vent to be pointed down in a vertical position. Additional protection may be required if road splatter is a problem.

Integral Two-Stage Regulators									
TYPE	CAPACITIES (PROPANE)(1)		INLET CONNECTION,	OUTLET CONNECTION,	OUTLET ADJUSTMENT RANGE		OUTLET PRESSURE SETTING		
	BTU / hr	SCMH	IN.	IN.	psig	mbar	psig	mbar	
R232E-BBH			1/4 FNPT	- 1/2 FNPT	1 to 2.2	69 to 152	2	138	
R232E-BBHXA(2)	500,000	5.6	1/4 FINE 1						
R232E-HBH	500,000		FPOL						
R232E-HBHXA ⁽²⁾] [
R632E-BCH	050,000	0.0	- 1/4 FNPT	1/2 FNPT	- 1 to 2.2	69 to 152			
R632E-BCHXA ⁽²⁾	850,000	9.6							
R632E-CFH	050,000	9.6		2/4 ENDT					
R632E-CFHXA(2)	850,000	9.6		3/4 FNPT					
R632E-HCH	000 000	10.1	FDOL	4/0 ENDT					
R632E-HCHXA ⁽²⁾	900,000			1/2 FNPT					
R632E-JFH	050,000	9.6	FPOL	O/A ENIDT					
R632E-JFHXA(2)	850,000			3/4 FNPT					

^{1.} Based on 30 psig / 2.1 bar inlet pressure and 20% droop.

^{2.} First and Second-Stage spring case vents opposite gauge taps.

COMMERCIAL/INDUSTRIAL HIGH-PRESSURE REGULATORS



67C Series

Suitable for liquid or vapor service, the 67C Series high-pressure (pounds-to-pounds) regulators are used on a variety of applications. All types within the series have a 1/4 in. FNPT side outlet in which a pressure gauge (J500 Series) can be installed. The compact size of the 67C Series regulators make them particularly useful on installations where space is limited. The regulator design utilizes precise guiding of the valve plug to provide close regulation and high performance. The LPG 67C Series has a temperature rating of -20 to 180°F / -29 to 82°C.

Type 67CW – Standard regulator with wrench adjustment.

Type 67CH – Standard regulator with handwheel adjustment.

Type 67CD – With dial calibration accuracy nearly equivalent to that of a commercial pressure gauge, the Type 67CD eliminates the need for a pressure gauge on portable applications.

Outlet pressure is calibrated on the spring case allowing visual adjustment of the outlet pressure without having to use a pressure gauge. The unit is ideal for service where gauge breakage is a problem.

Type 67CN – Extremely compact unit with a fixed (non-adjustable) outlet setting and a tamper resistant spring case. Three different setpoints are available: 10, 15 and 20 psig / 0.69, 1.0 and 1.4 bar.

Note: 67C Series regulators do not have an internal relief and should be installed with additional/external overpressure protection. These units should not be installed in fixed piping serving 14 in. w.c. / 35 mbar appliance systems. Please consult with your LPG Equipment Distributor for more information.

High-Pressure Regulators									
TYPE	DESCRIPTION	CAPACITIES (PROPANE)(1)		OUTLET PRESSURE SETTING		OUTLET ADJUSTMENT RANGE		INLET AND OUTLET	
		BTU / hr	SCMH	psig	bar	psig	bar	CONNECTIONS, IN.	
67CW-683		675,000	7.6	15	1.0	3 to 20	0.21 to 1.4		
67CW-684	Basic Regulator	750,000	8.4	20	1.4	3 to 35	0.21 to 2.4		
67CW-685	(Wrench Adjustment)	1,200,000	13.5	40	2.8	30 to 60	2.1 to 4.1		
67CW-701		1,000,000	11.3	50	3.4	50 to 120	3.4 to 8.3		
67CH-751		675,000	7.6	15	1.0	3 to 20	0.21 to 1.4		
67CH-743	Basic Regulator	750,000	8.4	20	1.4	3 to 35	0.21 to 2.4		
67CH-742	(Handwheel Adjustment)	1,200,000	13.5	40	2.8	30 to 60	2.1 to 4.1		
67CH-741		1,000,000	11.3	50	3.4	50 to 120	3.4 to 8.3		
67CH-745	Basic Regulator (Handwheel Adjustment) with Type M318 installed	750,000	8.4	20	1.4	3 to 35	0.21 to 2.4	1/4 FNPT	
67CD-100		675,000	7.6	15	1.0	5 to 20	0.34 to 1.4		
67CD-102	Dial Cap Adjustment	1,200,000	13.5	40	2.8	20 to 50	1.4 to 3.4		
67CD-103		1,000,000	11.3	50	3.4	40 to 100	2.8 to 6.9		
67CN-106		400,000	4.5	10	0.69	Non-Adjustable			
67CN-104	Non-Adjustable	600,000	6.7	15	1.0	Non-Adjustable			
67CN-105	7CN-105		8.4	20	1.4	Non-Adjustable			
1. Based on inlet pressure 20 psig / 1.4 bar greater than outlet with 20% droop; Liquid capacity = 3 to 5 GPH / 11.4 to 18.9 l/hr.									

COMMERCIAL/INDUSTRIAL HIGH-PRESSURE REGULATORS



64 Series

High-pressure (pounds-to-pounds) regulators usually reduce tank pressure to an intermediate pressure for use by another regulator. They may be used as high-pressure regulators on distribution systems when used in conjunction with a First-Stage downstream regulator. The Type 64SR may be used for First-Stage when set at 10 psig / 0.69 bar. They are also used for Final-Stage service on high-pressure burners in crop dryers and tobacco curers, as well as other medium sized commercial/industrial applications.

The 1/4 in. FNPT side outlet, which is normally plugged, provides an opening for an outlet pressure gauge. Standard 64's Series are capable of handling liquid or vapor at temperatures under 150°F / 66°C. A cover or auxiliary vent assembly should be used to protect the 1/4 in. FNPT regulator vent opening on outdoor installations. Temperature rating for the 64 and 64SR Series has a temperature rating from -20 to 150°F / -29 to 66°C.

64 Series – is an adjustable high-pressure regulator with a wide range of available outlet pressure ranges. It does not contain a relief

valve. It should always be used in conjunction with a downstream regulator and/or separate relief devices in compliance with NFPA 58 overpressure protection requirements.

Type 64SR – is a high-pressure regulator, which has an internal relief valve. As such it may be used as a Final-Stage regulator on high-pressure systems. It may also be used as a First-Stage regulator when set at 10 psig / 0.69 bar or less.

Note: 64 Series regulators do not have an internal relief and should be installed with additional/external overpressure protection. These units should not be installed in fixed piping serving 14 in. w.c. / 35 mbar appliance systems. Please consult with your LPG Equipment Distributor for more information.

Note: If the installation location makes the ignition of vented gas a possibility, then a vent line should be installed from the Type 64SR vent to a safe location.

			High-Pres	sure Regu	lators						
TYPE	DESCRIPTION	CAPACITIES	(PROPANE)(1)		RESSURE TING		JUSTMENT NGE	INLET AND OUTLET			
		BTU / hr	SCMH	psig	bar	psig	bar	CONNECTIONS, IN.			
64-33		2,625,000	29.6	10	0.69	3 to 15	0.21 to 1.0				
64-35	Dania Danulatan	3,600,000	40.5	20	1.4	5 to 35	0.34 to 2.4				
64-36	Basic Regulator	4,150,000	46.7	40	2.8	30 to 60	2.1 to 4.1				
64-222		5,250,000	59.1	50	3.4	35 to 100	2.4 to 6.9	1/2 FNPT			
64SR-21		2,625,000	29.6	10	0.69	3 to 15	0.21 to 1.0				
64SR-22	With Internal Relief Valve	3,000,000	33.8	15	1.0	5 to 20	0.34 to 1.4				
64SR-23		3,600,000	40.5	20	1.4	5 to 35	0.34 to 2.4				
1. Based on inlet pressure	Based on inlet pressure 20 psig / 1.4 bar greater than outlet with 20% droop; Liquid capacity = 160 GPH / 606 l/hr.										

COMMERCIAL/INDUSTRIAL DIRECT-OPERATED HIGH-PRESSURE REGULATORS





For Commercial and Industrial high-pressure applications like factories, office building, restaurants, etc., Emerson™ has a wide variety of products. For ease of reference, only the most popular commercial and industrial regulators are shown in these pages. Other orifice sizes, body sizes and outlet pressure ranges are available. The higher capacities on commercial and industrial installations usually require a Two-Stage regulator system.

Note: Because of various spring ranges and orifice sizes, all commercial and industrial regulators should be individually sized for the particular installation. Consult specific product bulletins for maximum pressure ratings. Contact your local LPG Equipment Distributor for assistance.

Types 627 and 630 – Large capacity direct-operated high-pressure regulators designed for loads up to 10,700,000 and 14,000,000 BTU per hour / 120 and 157 SCMH, respectively. The Types 627 and 630 are normally used in conjunction with Type CS400 units, however, they can also be used on Final-Stage (pounds-to-pounds) service. Additional overpressure protection is recommended to prevent excessive build-up in the downstream line. The diaphragm case and body of the Type 627 can be rotated in four positions to allow easy installation. Additional configurations of the Type 627 with internal relief and control line connections for monitor systems are available. For both the Types 627 and 630, additional pressure ranges and orifice sizes are available. Temperature ratings for the Types 627 and 630 is -20 to 160°F / -29 to 71°C.

For Liquid Service, Types 627W and MR95H are available.

Note: Types 627 and 630 regulators do not have an internal relief and should be installed with additional/external overpressure protection. These units should not be installed as part of a two-stage system in fixed piping serving 14 in. w.c. / 35 mbar appliance systems unless additional overpressure protection is installed that will make the system compliant with NFPA 58 requirements for a two-stage system. Please consult with your LPG Equipment Distributor for more information.

Flanged Bodies – The Types 630 and 627 are available with flanged bodies. Flanges are available for 2 in. CL300 FF.

Overpressure Protection – The Type 627 is also available in monitor configurations. Note that the Type 627 monitor regulators have unique type numbers. For more information on monitor overpressure protection, see page 42.

Fluorocarbon (FKM) Trim – The Type 627 is available with Fluorocarbon (FKM) Trim for high temperature applications such as vaporizors. Part numbers are listed below with a 'V' suffix. Temperature ratings for the Type 627 with Fluorocarbon (FKM) Trim is 0 to 180°F / -18 to 82°C.

Type 1301F – The proven reliability and accurate regulation of the Type 1301F regulator makes it ideal for numerous high-pressure drop applications. This multi-purpose regulator can be used as pilot supply or pressure-loading regulators where high-pressure operating medium must be reduced for use by gas regulator pilots or pressure-loaded regulators.

COMMERCIAL/INDUSTRIAL DIRECT-OPERATED HIGH-PRESSURE REGULATORS

	UL® Listed Type 627 Constructions											
TYPE	CAPACITIES(1)	PROPANE	ORIFIC	E SIZE	INLET AND OUTLET		PRESSURE NGE	SETP	OINT	MAXIMUM OPERATING INLET PRESSURE		
	BTU / hr	SCMH	ln.	mm	CONNECTION	psig	bar	psig	bar	psig	bar	
627-5810	6 090 000	69.4	3/8	9.5								
627-5810V	6,080,000	68.4	3/8	9.5	O/4 in ENDT		0.34 to 1.4		0.00			
627-6210	40.755.000				3/4 in. FNPT	5 to 20		10		250	17.2	
627-6210V	10,755,000	404	1/2	42		5 to 20		10	0.69			
627-7710	40.772.000	121	1/2	13	4 in ENIDT							
627-7710V	10,773,000				1 in. FNPT							

^{1.} For UL listed Type 627 configurations, capacity based on inlet pressure of 30 psig / 2.1 bar Internal registration and 20% droop. NOTE: Additional spring ranges and body styles available. Ask your LPG Equipment Distributor for additional configurations and for more information.

			Non-	·UL list	ed Type 627 (Construction	ons				
TYPE	CAPACITIES(2)	PROPANE	ORIFIC	E SIZE	INLET AND OUTLET		PRESSURE NGE	SETP	OINT	MAXIMUM OPERATING INLET PRESSURE	
	BTU / hr	SCMH	In.	mm	CONNECTION	psig	bar	psig	bar	psig	bar
627R-117 ⁽³⁾	10,755,000				3/4 in. FNPT					200	13.8
627M-421 ⁽⁴⁾	10,755,000	121		3/4 III. FINF I	5 to 20	0.24 to 1.4	10	0.69	250	17.2	
627R-197 ⁽³⁾	10.773.000	121	1/2	13		5 10 20	0.34 to 1.4	10	0.69	200	13.8
627M-471 ⁽⁴⁾	10,773,000		1/2	13	1 in. FNPT						
627-497	14,837,000	167]			15 to 40	104-00 40	40	2.8	250	17.2
627-577	20,948,000	235			2 in. FNPT	15 (0 40	1.0 to 2.8	40	2.8		

^{2.} For Non-UL listed Types 627 and 630 configurations, capacity based on inlet pressure 20 psig / 1.4 bar greater than outlet pressure, Internal registration and 20% droop. 3. "R" denotes token relief. Check with your LPG Equipment Distributor on relief capacities.
4. For monitor applications. Standard with blocked throat and external sensing.
NOTE: Additional spring ranges and body styles available. Ask your LPG Equipment Distributor for additional configurations and for more information.

	Type 630 Regulator												
TYPE	CAPACITIES I HOUR / SCMH		ORIFIC	E SIZE	INLET AND OUTLET CONNECTION		PRESSURE NGE	SETP	DINT	MAXIN OPERATIN PRESS	G INLET		
	BTU / hr	SCMH	ln.	mm	CONNECTION	psig	bar	psig	bar	psig	bar		
630-104-78	14,000,000	158	1/2	13	2 in. FNPT	8 to 20	0.55 to 1.4	10	0.69	250	17.2		

^{2.} For Non-UL listed Types 627 and 630 configurations, capacity based on inlet pressure 20 psig / 1.4 bar greater than outlet pressure, Internal registration and 20% droop. NOTE: Additional spring ranges and body styles available. Ask your LPG Equipment Distributor for additional configurations and for more information.

COMMERCIAL/INDUSTRIAL PILOT-OPERATED HIGH-PRESSURE REGULATORS

For Commercial and Industrial high-pressure applications, such as distributed community systems, factories, office buildings, restaurants, Emerson™ has a wide variety of products and solutions. For ease of reference, only the most popular commercial and industrial regulators are shown on these pages. Other orifice sizes, body sizes and outlet pressure ranges are available. The higher capacities on commercial and industrial installations usually require a Two-stage regulator system. Temperature ratings for the Type 99 is -20 to 180°F / -29 to 82°C.

Note: Because of various spring ranges and orifice sizes, all commercial and industrial regulators should be individually sized for the particular installation. Consult specific product bulletins for maximum pressure ratings. Contact your local LPG Equipment Distributor for assistance.

Type 99 – Pilot-operated unit keeps outlet pressure constant despite varying flow rates and inlet pressures. Designed to handle loads up to 74,318,000 BTU per hour / 837 SCMH, the Type 99 is ideal for multiple customer installations. The unique pilot design, with fast opening and closing operation, makes the Type 99 ideal for large industrial boiler applications. The Type 99 can be used for low or high-pressure applications. A downstream control line is required. Additional overpressure protection is recommended to prevent excessive buildup in the downstream line.

Note: Type 99 regulators do not have an internal relief and should be installed with additional/external overpressure protection. These units should not be installed as part of a two-stage system in fixed piping serving 14 in. w.c. / 35 mbar



appliance systems unless additional overpressure protection is installed that will make the system compliant with NFPA 58 requirements for a two-stage system. Please consult with your LPG Equipment Distributor for more information.

Flanged Bodies - 99F Series is equipped with 2 in. CL300 flanged bodies.

Overpressure Protection - The Type 99 is also available in monitor configurations. Note that the Type 99 monitor regulators have unique type numbers. For more information on monitor overpressure protection, see page 42.

		Р	ilot-Ope	erated H	ligh-Pressure Com	nmercial/l	ndustrial l	Regulato	ors		
TYPE	CAPAC (PROPA		ORIFIC	E SIZE	INLET AND OUTLET		PRESSURE NGE		PRESSURE		OPERATING RESSURE
	BTU / hr	SCMH	ln.	mm	CONNECTION	psig	bar	psig	bar	psig	bar
99-510P	29,400,000	331			2 in. FNPT	7 in. w.c.	17 mbar to	1	69 mbar		
99F-510P	29,400,000	331			2 in. / DN 50 CL300 FF	to 2	0.14	'	09 IIIDai		
99-511P	33,206,000	374	1		2 in. FNPT	1 to 5	69 mbar to	5	0.34	1	
99F-511P	33,206,000	3/4			2 in. / DN 50 CL300 FF	1 10 5	0.34	5	0.34		
99-513P	36,368,000	409	1		2 in. FNPT	2 to 10	0.14 to 0.69	10	0.69		
99F-513P	36,368,000	409	7/8	22	2 in. / DN 50 CL300 FF	2 10 10	0.14 to 0.69	10	0.09	250	17.2
99-512P	27.050.000	427	1 //8	22	2 in. FNPT	5 to 15	0.34 to 1.0	15	1.0	250	17.2
99F-512P	37,950,000	427			2 in. / DN 50 CL300 FF	51015	0.34 to 1.0	15	1.0		
99-515P	41,112,000	463	1		2 in. FNPT	10 to 20 0.69 to 1.	0.00 to 4.4	20	1.4		
99F-515P	41,112,000	403			2 in. / DN 50 CL300 FF		0.69 to 1.4	20	1.4		
99-903P	44,275,000	498]		2 in. FNPT		0.60 to 4.5	20	2.1		
99F-903P	44,275,000	490			2 in. / DN 50 CL300 FF	10 10 05	0.69 to 4.5	30	2.1		
99-502PH	50,600,000	570			2 in. FNPT	1 to 5	69 mbar to	5	0.34		
99F-502PH	50,600,000	570			2 in. / DN 50 CL300 FF	1 10 5	0.34	5	0.34		
99-503PH	61,668,000	694]		2 in. FNPT	2 to 10	0.14 to 0.69	10	0.69		
99F-503PH	61,668,000	694]		2 in. / DN 50 CL300 FF	2 10 10	0.14 (0 0.09	10	0.09		
99-504PH	63,250,000	712	1-1/8	29	2 in. FNPT	5 to 15	0.34 to 1.0	15	1.0	300	20.7
99F-504PH	63,250,000	712	1-1/0	29	2 in. / DN 50 CL300 FF	5 10 15	0.34 10 1.0	15	1.0	300	20.7
99-505PH	67,993,000	765]		2 in. FNPT	10 to 20	0.69 to 1.4	20	1.4		
99F-505PH	67,993,000	765]		2 in. / DN 50 CL300 FF	10 (0 20	0.09 10 1.4	20	1.4		
99-901PH	74,318,000	837]		2 in. FNPT	10 to 65	65 0.69 to 4.5	0.00 + 4.5	2.1		
99F-901PH	74,318,000	837			2 in. / DN 50 CL300 FF	10 (0 65	0.09 10 4.5	30	2.1		

^{1.} Capacity based on inlet pressure 20 psig / 1.4 bar greater than outlet pressure, external registration and 0.1 to 0.3 psi / 6.9 to 21 mbar proportional band. NOTE: Additional spring ranges and body styles are available. Ask your LPG Equipment distributor for more information.

COMMERCIAL/INDUSTRIAL PILOT-OPERATED HIGH-PRESSURE REGULATORS

Type 1098 - The Type 1098-EGR regulator provides large capacities for use in large commercial applications and large distributed community systems. Designed to handle loads from 170,000,000 BTU / 1910 SCM (2 in. size) to in excess of 1,000,000,000 BTU / 11,234 SCM (4 in. size) and rated to 75 psig / 5.2 bar for Maximum Outlet Pressure, the Type 1098H is a regulator unmatched in performance in the LPG Industry. The Type 1098's pilot-operated two-path system is designed to quickly respond to sudden changes in the downstream demand, making this regulator ideal for fuel gas supply to industrial boilers, furnaces, ovens and mixers. Temperature rating for the Type 1098 is -20 to 180°F / -29 to 82°C. Actuator/diaphragm are size 40.

Type 1098H - The Type 1098H-EGR regulator also provides large capacities used in systems similar to Type 1098. The Type 1098H uses a special cast iron actuator assembly that increases the Maximum Downstream Pressure rating of the standard Type 1098 up to 300 psig / 20.7 bar, offering an even greater level of protection with outlet pressure settings up to 125 psig / 8.6 bar. Temperature rating for the Type 1098H is -20 to 180°F / -29 to 82°C. Actuator/diaphragm are size 30.

Flanged Bodies - The Types 1098 and 1098H are available with flanged bodies. Flanges are available in 2, 3 and 4 in. body sizes and CL300 FF end connection.

Note: Type 1098 regulators do not have an internal relief and should be installed with additional/external overpressure protection. These units should not be installed as part of a two-stage system in fixed piping serving 14 in. w.c. / 35 mbar appliance systems unless additional overpressure protection



TYPE 1098-L22

is installed that will make the system compliant with NFPA 58 requirements for a two-stage system. Please consult with your LPG Equipment Distributor for more information.

Overpressure Protection - The Types 1098 and 1098H is also available in monitor configurations. Note that the Type 1098H regulators may be used either as the worker or monitor regulator. For more information on monitor overpressure protection, see page 42.

The Type 1098 regulator is a highly advanced regulator with many configurations for various applications. Always consult Emerson™ to discuss your application prior to placing your order.

		Pilot-O	perate	d High	-Pressure Commo	ercial/Ind	ustrial Re	gulators			
TYPE	CAPACITIES (F	ROPANE)	ORIFIC	E SIZE	INLET AND OUTLET		PRESSURE NGE		RESSURE TING		OPERATING RESSURE
	BTU / hr	SCMH	ln.	mm	CONNECTION	psig	bar	psig	bar	psig	bar
1098-L21	170,500,000(1)	1915(1)				2 to 10	0.14 to 0.69	10	0.69		
1098-L22	215,300,000(2)	2419(2)			2 in. FNPT	3 to 40	0.21 to 2.7	20	1.4		
1098-L23	322,300,000(3)	3621(3)	2 2/0	60		35 to 75	2.4 to 5.2	50	3.4	400	
1098-F21	170,500,000(1)	1915 ⁽¹⁾	2-3/8	60		2 to 10	0.14 to 0.69	10	0.69		
1098-F22	215,300,000(2)	2419			2 in. / DN 50 CL300 RF	3 to 40	0.21 to 2.7	20	1.4		07.0
1098-F23	322,300,000(3)	3621 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4		
1098-F31	356,300,000(1)	4003(1)				2 to 10	0.14 to 0.69	10	0.69	400	27.6
1098-F32	447,400,000(2)	5026(2)	3-3/8	86	3 in. / DN 80 CL300 RF	3 to 40	0.21 to 2.7	20	1.4]	
1098-F33	669,500,000 ⁽³⁾	7521 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4	9	
1098-F41	551,300,000 ⁽⁴⁾	6193(4)				2 to 10	0.14 to 0.69	10	0.69		
1098-F42	693,500,000(4)	7791(4)	4-3/8	111	4 in. / DN 100 CL300 RF	3 to 40	0.21 to 2.7	20	1.4		
1098-F43	1,035,500,000(3)	11,633 ⁽³⁾				35 to 75	2.4 to 5.2	50	3.4]	

NOTE: Additional spring ranges and body styles are available. Ask your LPG Equipment Distributor for more information.

- 1. Capacity based on 30 psig / 2.1 bar inlet pressure and 15 psig / 1.0 bar setpoint.
- 2. Capacity based on 40 psig / 2.8 bar inlet pressure and 20 psig / 1.4 bar setpoint.
- 3. Capacity based on 75 psig / 5.2 bar inlet pressure and 50 psig / 3.4 bar setpoint. 4. Capacity based on 25 psig / 1.7 bar inlet pressure greater than outlet pressure setting.

COMMERCIAL LOW-PRESSURE REGULATORS







Emerson[™] has a wide range of low-pressure regulators to meet almost any commercial or industrial application. For ease of reference, only the most popular commercial and industrial regulators are shown on this page. Other orifice sizes, body sizes and outlet pressure ranges are available. See the product guides on pages 36 and 38. The Commercial Service (CS) Regulator Series have a temperature rating of -20 to 160°F / -29 to 71°C, but have passed Fisher[™] internal testing for lockup, relief start-to-discharge and reseal down to -40°F / -40°C.

Note: Because of various spring ranges and orifice sizes, all commercial and industrial regulators should be individually sized for the particular installation. Consult specific product bulletins for maximum pressures ratings. Contact your local LPG Equipment Distributor for assistance.

Type CS400 – The Type CS400 is a medium capacity low-pressure, direct-operated regulator designed for loads up to 7,800,000 BTU per hour / 88 SCMH, ideal for installations at schools, bakeries and many other commercial/industrial applications. Available in 1-1/4, 1-1/2 and 2 in. body sizes with spring ranges from 4.5 in. w.c. to 5.5 psig / 11 mbar to 0.38 bar.

Type CS200 – The Type CS200 is a medium capacity low-pressure, direct-operated regulator designed for loads up to 3,800,000 BTU per hour / 44 SCMH, ideal for installations on smaller commercial/industrial applications. Available in 3/4, 1 and 1-1/4 in. body sizes with spring ranges from 3.5 in. w.c. to 2 psig / 9 mbar to 0.14 bar.

Flanged Bodies – The Types CS400 and CS800 are available with a flanged body. Flanges are available in 2 in. / DN 50 body size and CL125 FF end connection.

Type CS800 – The Type CS800 is a direct-operated, spring-loaded regulator which has been engineered for low-pressure commercial service applications. This regulator can accommodate up to 21,600,000 BTU per hour / 243 SCMH of flow capacity and is available in 1-1/2 and 2 in. body sizes with 8 in. w.c. to 5.5 psig / 20 mbar to 0.38 bar pressure ranges.

Note: Types CS200, CS400 and CS800 regulators should be installed with additional/external overpressure protection. These units when installed as part of a two-stage system in fixed piping serving 14 in. w.c. / 35 mbar appliance systems require additional overpressure protection to make the system compliant with NFPA 58 requirements for a two-stage system. Please consult with your LPG Equipment Distributor for more information.

	Low-Pressure Commercial Regulators										
TYPE	CAPACITIES	(PROPANE)(1)	ORIFIC	E SIZE	INLET AND OUTLET CONNECTION,		TLET RE RANGE		RESSURE TING	MAXIMUM (PERATING RESSURE
	BTU / hr	SCMH	ln.	mm	IN.	psig	bar	psig	bar	psig	bar
CS200IR-6EC1	2,500,000	28			3/4 FNPT						
CS200IR-6EC3	3,800,000	43	1/2	13	1 FNPT					40	2.8
CS200IR-6EC6	3,900,000	44			1-1/4 FNPT	10 to 14	25 to 35				
CS400IR-8EC6	6,800,000	76			1-1/4 FNPT	in. w.c.	mbar	11 in. w.c.	27 mbar		
CS400IR-8EC7	7,600,000	85	3/4	19.1	1-1/2 FNPT			II III. W.C.	27 IIIDai	20	1.4
CS400IR-8EC8	7,600,000	85			2 FNPT						
CS800IR-8CC7	10,460,000	118	1	25.4	1-1/2 FNPT	8 to	20 to			30	2.1
CS800IR-8CC8	21,809,000	245	'	25.4	2 FNPT	12 in. w.c.	30 mbar			30	2.1
CS200IR-6HC1	3,760,000	42			3/4 FNPT						
CS200IR-6HC3	4,780,000	54	1/2	13	1 FNPT					40	2.8
CS200IR-6HC6	5,327,000	60			1-1/4 FNPT	1 to 2	0.06 to 0.14				
CS400IR-8HC6	9,715,000	109			1-1/4 FNPT	1 10 2	0.06 (0 0.14	2	0.14		
CS400IR-8HC7	10,500,000	118	3/4	19.1	1-1/2 FNPT			2	0.14	20	1.4
CS400IR-8HC8	8,775,000	99			2 FNPT						
CS820IR-8FC7	15,011,000	169	1	25.4	1-1/2 FNPT	1 to 2.5	0.06 to 0.17			30	2.1
CS820IR-8FC8	21,436,000	241	'	25.4	2 FNPT	1 10 2.5	0.06 10 0.17			30	2.1
CS400IR-8IC6	7,365,000	83			1-1/4 FNPT						
CS400IR-8IC7	6,895,000	77	3/4	19.1	1-1/2 FNPT	2 to 5.5	0.14 to 0.38			20	1.4
CS400IR-8IC8	7,365,000(2)	83(2)			2 FNPT			5	0.35		
CS820IR-8HC7	15,262,000	171	1	25.4	1-1/2 FNPT	2.5 to 5.5	0.17 to 0.38			30	2.1
CS820IR-8HC8	16,532,000	186	<u>'</u>	20.4	2 FNPT	2.0 10 0.5	0.17 10 0.30			30	4.1

^{1.} Capacities are based on 10 psig / 0.69 bar and 2 in. w.c. / 5 mbar droop.

^{2.} Capacities are based on 10 psig / 0.69 bar and 20% droop.

NOTE: Additional combinations of body sizes, spring ranges and orifice sizes are available. See guides on the next page. Consult your LPG Equipment distributor for more information.

COMMERCIAL LOW-PRESSURE REGULATORS

	Type CS200 Selection Guide											
	BASE	;	SENSING		RELIEF	O	RIFICE		REGULATOR SETPOINT	ВОІ	DY OPTION	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	CODE SIZE In. / mm		In. w.c. / mbar	CODE	DESCRIPTION	
CS200	Basic	- 1	Internal	N	None	1	1/8 / 3.2	Α	3.5 to 5 / 9 to 12	C1	3/4 in. FNPT, Cast Iron	
				R	Internal	2	3/16 / 4.8	В	4.5 to 6.5 / 11 to 16	СЗ	1 in. FNPT, Cast Iron	
						3	1/4 / 6.4	С	6 to 8 / 15 to 20	C6	1-1/4 in. FNPT, Cast Iron	
						5	3/8 / 9.5	D	7.5 to 11 / 19 to 27			
						6	1/2 / 13	Е	10 to 14 / 25 to 35			
								F	12 to 19 / 30 to 47			
								G	18 to 1 psig / 45 mbar to 0.06 bar			
								Н	1 to 2 psig / 0.06 to 0.13 bar			

	Type CS400 Selection Guide											
	BASE		SENSING		RELIEF	OI	RIFICE	REGULATOR SETPOINT		во	DY OPTION	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE SIZE,		CODE	In. w.c. / mbar	CODE	DESCRIPTION	
CS400	Basic	- 1	Internal	N	None	2	3/16 / 4.8	А	3.5 to 5 / 9 to 12	C6	1-1/4 in. FNPT, Cast Iron	
		E	External	R	Internal	3	1/4 / 6.4	В	4.5 to 6.5 / 11 to 16	C7	1-1/2 in. FNPT, Cast Iron	
	,			Т	T Token		3/8 / 9.5	С	6 to 8 / 15 to 20	C8	2 in. FNPT, Cast Iron	
						6	1/2 / 13	D	7.5 to 11 / 19 to 27	C9	2 in. / DN 50, CL150 FF, Ductile Iron	
						8	3/4 / 19	Е	10 to 14 / 25 to 35			
								F	12 to 19 / 30 to 47			
								G	18 to 1 psig / 45 mbar to 0.06 bar]		
								Н	1 to 2 psig / 0.06 to 0.13 bar	1		
								I	2 to 5.5 psig / 0.14 to 0.38]		

					Type C	S800 \$	Selection	Guide	9		
	BASE	·	SENSING		RELIEF	OF	RIFICE		REGULATOR SETPOINT	BODY OPTION	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	SIZE, In. / mm	CODE(1)	In. w.c. / mbar	CODE	DESCRIPTION
CS800	Basic	-	Internal	N	None	2	1/4 / 6.4	А	3.5 to 6 / 9 to 15	C6	1-1/4 in. FNPT, Gray Iron
CS820	High Outlet	Е	External	R	Internal	3	3/8 / 9.5	В	5.5 to 8.5 / 11 to 16	C7	1-1/2 in. FNPT, Gray Iron
				Т	Token	4	1/2 / 13	С	8 to 12 / 15 to 20	C8	2 in. FNPT, Gray Iron
				Q	High Capacity	6	3/4 / 19.1	D	10 to 16 / 25 to 40	C9	2 in. / DN 50, CL125 FF, Gray Iron
						8	1 / 25	E	14 to 30 / 25 to 75	D11	2 in. / DN 50, CL150 FF, Ductile Iron
						9	1-3/8 / 35	F	1 to 2.5 psig / 0.06 to 0.17 bar		
								G	1.5 to 3.5 / 0.10 to 0.24 bar]	
								Н	2.5 to 5.5 / 0.17 to 0.38 bar		

^{1.} Code A to E only applies to Type CS800. Code F to H only applies to Type CS820.

COMMERCIAL SERVICE OVERPRESSURE PROTECTION

Type CS403 with Integral **True-Monitor™ Protection**

1-1/4 in. FNPT to 2 in. FNPT Body Sizes (2 in. / DN 50. CL150 Flange Available) 7.65 to 8.44M BTU per hour / 85.9 to 94.8 SCMH Internal Registration

Type CS403: Combines operation of a conventional two-regulator wide-open monitor set into one body. During normal operation, the monitor is in a wide open state at a setpoint higher than the primary regulator. If the downstream pressure should rise due to loss of control by the primary regulator, the integral monitor will assume control and regulate the flow to the downstream system.

See Selection Guide on the next page for available options.



PRIMARY SETPOINT	MONITOR SETPOINT	MONITOR SPRING RANGE
In. w.c. / mbar	In. w.c. / mbar	Spring Range
11 / 27	21 / 52	16 to 23 in. w.c. / 40 to 57 mbar
2 psig / 0.14 bar	2.5 psig / 0.17 bar	1.5 to 2.5 psig / 0.10 to 0.17 bar
5 psig / 0.35 bar	6 psig / 0.41 bar	4 to 7.5 psig / 0.28 to 0.52 bar



(2 in. / DN 50, CL150 Flange Available) 7.65 to 8.44M BTU per hour / 85.9 to 94.8 SCMH

Internal Registration

Type CS404: Integrates a fast acting shutoff device that provides overpressure shutoff (OPSO) or over/underpressure shutoff (UPSO/ OPSO) protection by completely shutting off the flow of gas to the downstream system. The Slam Shut operates independently of the main regulator and does not affect normal operation unless the downstream pressure fluctuates outside of the desired ranges.

See Selection Guide on the next page for available options.



PRIMARY SETPOINT	SL	AM-SHUT SETPOINT
	OPSO	UPSO - OPSO
In. w.c. / mbar	In. w.c. / mbar	In. w.c. / mbar
7 / 17	17 / 42	
11 / 27	19 / 47	6.3 / 16 - 25 / 62
14 / 35	30 / 75	8.8 / 22 - 28 / 70
1 psig / 0.07 bar	1.9 psig / 0.13 bar	16 / 40 - 1.9 psig / 0.13 bar
2 psig / 0.14 bar	3.3 psig / 0.23 bar	1 psig / 0.07 bar - 3.2 psig / 0.22 bar
5 psig / 0.35 bar	6.7 psig / 0.46 bar	2.9 psig / 0.20 bar - 7.5 psig / 0.52 bar

Types CS803 and CS823 with Integral **True-Monitor Protection**

1-1/2 in. FNPT and 2 in. FNPT Body Sizes (2 in. / DN 50, CL150 Flange Available) 10.46 to 21.44M BTU per hour / 118 to 241 SCMH Internal Registration

Type CS803: Designed to deliver less than 1 psig, the Type CS803 combines operation of a conventional two-regulator wide-open monitor set into one body. During normal operation, the monitor is in a wide open state at a setpoint higher than the primary regulator. If the downstream pressure should rise due to loss of control by the primary regulator, the integral monitor will assume control and regulate the flow to the downstream system.

Type CS823: Equipped with the same technology as the Types CS803 and Type CS823 delivers up to 5.5 psig / 0.38 bar operating pressures.

See Selection Guide on the next page for available options.



PRIMARY SETPOINT	MONITOR SETPOINT	MONITOR SPRING RANGE
In. w.c. / mbar	In. w.c. / mbar	Spring Range
11 / 27	21 / 52	16 to 23 in. w.c. / 40 to 57 mbar
2 psig / 0.14 bar	2.5 psig / 0.17 bar	1.5 to 2.5 psig / 0.10 to 0.17 bar
5 psig / 0.35 bar	6 psig / 0.41 bar	4 to 7.5 psig / 0.28 to 0.52 bar

COMMERCIAL SERVICE OVERPRESSURE PROTECTION

					Type CS403	Selec	tion Guid	е			
	BASE SENSING		SENSING	RELIEF		ORIFICE		RE	GULATOR SETPOINT	BODY OPTION	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	SIZE, In. / mm	CODE	Primary - Monitor In. w.c. / mbar	CODE	DESCRIPTION
CS403	Integral Monitor	I	Internal	N	None	2	3/16 / 4.8	D	11 / 27 - 21 / 52	D2	1-1/4 in. FNPT, Ductile Iron
		Е	External	Т	Token	3	1/4 / 6.4	Н	2 psig / 0.14 bar - 2.5 psig / 0.17 bar	D3	1-1/2 in. FNPT, Ductile Iron
						5	3/8 / 9.5	L	5 psig / 0.35 bar - 6 psig / 0.41 bar	D4	2 in. FNPT, Ductile Iron
						6	1/2 / 13			D9	2 in. / DN 50, CL125 FF, Ductile Iron
						8	3/4 / 19				

					Type CS404	Select	ion Guide				
	BASE	;	SENSING	RELIEF		o	RIFICE	REGULATOR SETPOINT		BODY OPTION	
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	SIZE, In. / mm	CODE	Primary - Slam shut In. w.c. / mbar	CODE	DESCRIPTION
CS404	Integrated Slam shut	I	Internal	N	None	2	3/16 / 4.8	D	11 / 27 - 19 / 47	D2	1-1/4 in. FNPT, Ductile Iron
		E	External	Т	Token	3	1/4 / 6.4	К	2 psig / 0.14 bar - 3.3 psig / 0.23 bar	D3	1-1/2 in. FNPT, Ductile Iron
						5	3/8 / 9.5	N	5 psig / 0.35 bar - 6.7 psig / 0.46 bar	D4	2 in. FNPT, Ductile Iron
						6	1/2 / 13	V*	11 in. w.c. / 27 mbar - 6.3 in. w.c. / 16 mbar - 25 in. w.c. / 62 mbar	D9	2 in. / DN 50, CL125 FF, Ductile Iron
						8	3/4 / 19	AB*	2 / 0.14 - 1 / 0.06 - 3.2 / 0.22		
								AE*	5 / 0.35 - 2.9 / 0.2 - 7.5 / 0.52		
	* set pressures for:							sures for:			

Types CS803 and CS823 Selection Guide RELIEF ORIFICE BASE SENSING REGULATOR SETPOINT **BODY OPTION** SIZE CODE DESCRIPTION CODE DESCRIPTION CODE DESCRIPTION CODE CODE In. w.c. / mbar CODE DESCRIPTION In. / mm Integral Monitor, 1 1/2 in. FNPT, CS803 Ν 1/4 / 6.4 D 11 / 27 D3 Internal None Ductile Iron Integral Monitor, psig 2 in. FNPT, Ductile Iron CS823 External Т Token 3 3/8 / 9.5 Н 2 psig / 0.14 bar D4 2 in. CL125 FF/ 5 1/2 / 13 L 5 psig / 0.35 bar CL150 FF Cast Iron 6 3/4 19

1 / 25

8

Primary - Underpressure -Overpressure. Units are in psig / bar

INDUSTRIAL SERVICE LOW-PRESSURE REGULATORS







Emerson™ has a wide range of low-pressure regulators to meet almost any commercial or industrial application. For ease of reference, only the most popular commercial and industrial regulators are shown on this page. Other orifice sizes, body sizes and outlet pressure ranges are available.

Note: Because of various spring ranges and orifice sizes, all commercial and industrial regulators should be individually sized for the particular installation. Consult specific product bulletins for maximum pressures ratings. Contact your local LPG Equipment Distributor for assistance.

Type 299H - A high capacity pilot-operated regulator. Incorporates a lightweight design (21 lbs / 10 kg) with dependable operation. With a capacity up to 38,000 000 BTU per hour / 428 SCMH, the Type 299H is ideal for applications from large commercial sites to smaller multi-dwelling establishments. The unit comes with a 1-1/2 or 2 in. cast iron body with internal or external registration. Internal registration allows easy installation while external registration provides higher accuracy. 2 in. / DN 50 flanged body or steel body material also available. Alternate outlet settings from 3.5 in. w.c. to

60 psig / 9 mbar to 4.1 bar are available. Temperature ratings for the Type 299H is -20 to 150°F / -29 to 66°C. The Type 299H has maximum inlet pressure rating of 150 psig / 10 bar so it cannot be used as a First-Stage regulator.

Type 99 - Pilot-operated unit keeps outlet pressure constant despite varying flow rates and inlet pressures. Designed to handle loads up to 63,250,000 BTU per hour / 712 SCMH, the Type 99L is ideal for multiple customer installations. The unique pilot design, with fast opening and closing operation, makes the Type 99L ideal for large industrial boiler applications. The Type 99L can be used for low pressure. A downstream control line is required. Temperature ratings for the Type 99 is -20 to 160°F / -29 to 82°C.

133 Series - Direct-operated Second-Stage regulator ideal for large industrial applications with loads up to 70,875,000 BTU per hour / 798 SCMH. The unit can be used for either low pressure or pounds service. Maximum inlet pressure is 60 psig / 4.1 bar and a downstream control line is required. The 133 Series has a temperature rating of -20 to 150°F / -29 to 66°C.

			Lov	w-Pres	ssure Commerci	al/Industr	ial Regulate	ors			
TYPE	CAPACITIES (P	ROPANE)	ORIFIC	E SIZE	INLET AND OUTLET		TLET RE RANGE	OUTLET PRESSURE SETTING		MAXIMUM OPERATING IN PRESSURE	
	BTU / hr	SCMH	ln.	mm]	psig	psig bar		bar	psig	bar
299H-101	13,100,000(1)	148(1)			1-1/2 FNPT	9 to 20	001 50 1	44.	07.1		
299H-102	19,700,000(1)	222(1)			2 FNPT	in. w.c.	22 to 50 mbar	11 in. w.c.	27 mbar		
299H-103	23,300,000(2)	262(2)			1-1/2 FNPT	6 to 16	0.44 += 4.4	10	0.69	1	
299H-104	38,000,000(2)	428(2)			2 FNPT	61016	0.41 to 1.1	10	0.69		
299H-105			3/4	19	1-1/2 FNPT	9 to 20				150	10.3
299H-106	20,400,000(3)	230(3)			2 FNPT	in. w.c.	22 to 50 mbar	11 in. w.c.	27 mbar		
299H-107	20,000,000(4)	400(4)			1-1/2 FNPT	0.4- 40	0.44 += 4.4	40	0.00	1	
299H-108	38,000,000(4)	428(4)			2 FNPT	6 to 16	0.41 to 1.1	10	0.69		
99-501P	49,000,000 ⁽⁶⁾	552 ⁽⁶⁾				7 in. w.c. to 2 psig	17 mbar to 0.14 bar	1	69 mbar		
99-502P	50,600,000(6)	570 ⁽⁶⁾	1-1/8	29		1 to 5	69 mbar to 0.34 bar	5	0.34	150	10.3
99-503P	61,650,000 ⁽⁶⁾	694 ⁽⁶⁾	1			2 to 10	0.14 to 0.69	10	0.69	1	
99-504P	63,250,000 ⁽⁶⁾	712(6)			2 FNPT	5 to 15	0.34 to 1.0	15	1.0		
133L-4	70,875,000(3)	798(3)				8.5 to 18 in. w.c.	21 to 45 mbar	14 in. w.c.	35 mbar		
133H-1	66,150,000 ⁽⁵⁾	745(5)	2	51		1.5 to 3	0.10 to 0.21	3	0.21	60	4.1
133H-3	115,958,000(6)	1305(6)	1			5 to 10	0.34 to 0.69	10	0.69	1	

- 1. Capacity based on inlet pressure of 10 psig / 0.69 bar, Internal Registration and 2 in. w.c. / 5 mbar droop.
- 2. Capacity based on inlet pressure of 20 psig / 1.4 bar higher than outlet pressure, Internal Registration and 20% droop.

 3. Capacity based on inlet pressure of 10 psig / 0.69 bar, External Registration and 2 in. w.c. / 5 mbar droop.
- 4. Capacity based on inlet pressure 20 psig / 1.4 bar higher than outlet pressure, External Registration and 2 in. w.c. / 5 mbar droop.
- 5. Capacity based on inlet pressure of 10 psig / 0.69 bar, External Registration and 20% droop.
- 6. Capacity based on inlet pressure of 20 psig / 1.4 bar higher than outlet pressure, External Registration and 20% droop NOTE: Additional spring ranges and body styles are available. Ask your LPG Equipment Distributor for more information.

AUTOMATIC CHANGEOVER REGULATORS

Commercial Automatic Changeover Regulators

Designed for large capacity multi-cylinder or tank installations, these regulators are used on applications such as bakeries, motels, restaurants and grain dryers. The manifold portion of the assembly consists of two 64 Series regulators and a direct mounted 803 Series indicator. Temperature rating for the Type 64SR-122 is -20 to 150°F / -29 to 66°C.

Type 64SR-122 – For high pressure (pounds-to-pounds) service with the outlet pressure supplied by a Type 64SR that has internal relief protection.



	Commercial Automatic Changeover Regulators												
TYPE	CAPACITIES IN BTU per hour / SCMH PROPANE ⁽¹⁾	INLET CONNECTION, IN.	OUTLET PRESSURE SETTING, psig / bar	OUTLET ADJUSTMENT RANGE, psig / bar									
64SR-122	1,210,000 / 13.6	1/2 FNPT	1/2 FNPT	10 / 0.69	5 to 20 / 0.34 to 1.4								

Changeover Manifold Assemblies

Type R130-21 – Composed of two Type 67C regulators and a special 0 to 60 psig / 0 to 4.1 bar pressure gauge, the Type R130 delivers a 45 psig / 3.1 bar outlet pressure on supply and 30 psig / 2.1 bar on reserve. The gauge, which serves as the changeover indicator, is painted red from 0 to 35 psig / 0 to 2.4 bar. When the dial reads in the 0 to 35 psig / 0 to 2.4 bar range, it indicates that the manifold has switched from the supply to the reserve cylinder. The Type R130-21 has a temperature rating of -20 to 160°F / -29 to 71°C .

Type 749B-21 – Large capacity changeover manifold for commercial and industrial applications. It consists of two 64 Series regulators and a 803 Series direct indicator. The assembly is used primarily in conjunction with either a Type HSRL or 64SR regulator. The standard outlet setting is 15 psig / 1.0 bar from the supply and 5 psig / 0.34 bar from the reserve. Temperature rating for the Type 749B-21 is -20 to 150°F / -29 to 66°C.

Note: These units are intended for use with Second-Stage regulators and/or separate relief devices which provide overpressure protection required by NFPA 58. Capacity of all these changeover manifolds is dependent on the size of the Second-Stage regulator with which they are used. If the manifolds are used as a Final-Stage (pounds-to-pounds), a relief valve is required in the downstream system.

Remote Indicator

803 Series – give remote visual indication that the supply cylinder is empty and that the regulator is withdrawing gas from the reserve cylinder. The indicator has 360° visibility and is weatherproof.

Type 803-21 - Indicator only



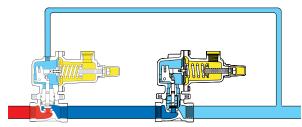


	Changeover Manifold Regulators										
	CAPACITIES IN	OUTLET	OUTLET PRESSURE SETTING								
TYPE	BTU per hour / SCMH PROPANE ⁽¹⁾	CONNECTION, IN.	CONNECTION, IN.	Supply Setting, psig / bar	Reserve Setting, psig / bar						
R130-21	1,475,000 / 16.6	1/4 FNPT	1/4 FNPT	45 / 3.1	30 / 2.1						
749B-21	1,500,000 / 16.9	1/2 FNPT	1/2 FNPT	15 / 1.0	5 / 0.34						
1. Based on 100 psiq / 6.9 bar inlet, reserve setting.											

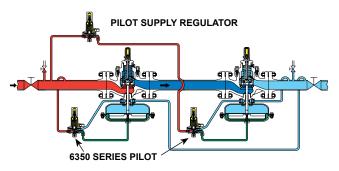
MONITOR OVERPRESSURE PROTECTION

Monitoring is overpressure control by containment. When the working pressure reducing valve ceases to control the pressure, a second regulator installed in series, which has been sensing the downstream pressure, goes into operation to maintain the downstream pressure at a slightly higher than normal pressure. The monitoring concept is gaining in popularity, especially in low-pressure systems, because very accurate relay points permit reasonably close settings of the working and monitoring regulators.

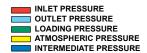
When selecting regulators for use in a monitor system, the upstream regulator must have a control line. When determining the capacity of a monitor system you will get approximately 70% to 73% of the capacity of a single regulator when using the same regulator for both regulators in the system.



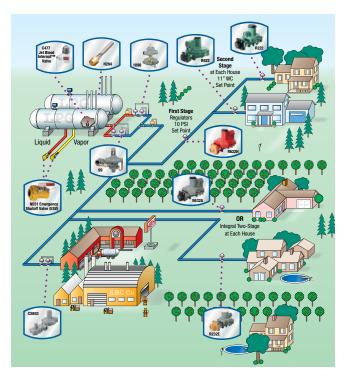
TYPE 627M (DIRECT-OPERATED) MONITOR



TYPE 1098H (PILOT-OPERATED) MONITOR



The major advantage is that there is no venting to atmosphere. During an overpressure situation, monitoring keeps the customer on line and keeps the downstream pressure relatively close to the setpoint of the working regulator. Testing is relatively easy and safe. To perform a periodic test on a monitor, increase the outlet set pressure of the working device and watch the pressure to determine if the monitor takes over.



COMMUNITY SYSTEM MAP

Fisher™ offers a wide variety of products for monitor applications. Provided for your reference below is a list of commonly used regulators for various capacity requirements. Note that pilot-operated regulators may be used in conjunction with direct-operated regulators in monitor applications, depending on the application requirement. Please call your local LPG Equipment Distributor to review your monitor requirements.

	Typical Wide-Open Monitor System											
OPERATING	ORIFIC	E SIZE	BODY SIZE,	MONITOR	ORIFIC	E SIZE	BODY SIZE,	REGULATING	CAPACITY(1)			
REGULATOR	ln.	mm	IN.	REGULATOR	In.	mm	IN.	BTU/hr	SCMH			
Type 627-5810	3/8	9.53	3/4 NPT	Type 627M-421			3/4 NPT	5,750,000	64.6			
Type 627-6210			3/4 NPT	Type 627M-421	1/2	13	3/4 NPT	7.050.000	79.2			
Type 627-7710	1/2	13	1 NPT	Type 627M-471] 1/2	13	1 NPT	7,050,000	79.2			
Type 630-104/78	1/2	13	2 NPT	Type 627M-267	M-267		2 NPT	8,400,000	94.4			
Type 630-104/78			2 NPT	Type 99M-504PH	4.4/0	00.0	2 NPT	13,500,000	152			
Type 99-504PH	4.4/0	28.6	2 NPT	Type 99M-504PH	1-1/8	28.6	2 NPT	42,650,000	479			
Type 99-504PH	1-1/8	28.6	2 NPT	Type 1098H	0.0/0	00.0	2 NPT	54,500,000	612			
Type 1098			2 NPT	Type 1098H	2-3/8	60.3	2 NPT	136,900,000	1538			
Type 1098	2-3/8	60.3	3 NPT	Type 1098H	3-3/8	85.7	3 NPT	283,700,000	3187			
Type 1098			4 NPT	Type 1098H	4-3/8	111	4 NPT	437,800,000	4918			

BACKPRESSURE REGULATORS/RELIEF VALVES

Relief Valve for Liquid or Vapor Service

Type MR98H – is a direct-operated relief valve for use on relief and backpressure applications involving large LPG pumping systems and vaporizers. Internal pressure registration eliminates the need for a control line. Body materials are available in Gray Cast Iron, Steel or Stainless Steel. It is available with Nitrile (NBR) gaskets in sizes from 1/4 in. to 2 in. / 6.35 to 50.8 mm. Relief pressure ranges from 15 to 200 psi / 1.03 to 13.8 bar. Temperature ratings are -40 to 180°F / -40 to 82°C for CI and SST and -20 to 180°F / -29 to 82°C for Steel. Available with: gauge port on inlet, gauge port on outlet and Fluorocarbon (FKM) elastomers.

Type MR98HH – Same features as above but relief pressure range is 150 to 375 psig / 10.3 to 25.9 bar.





TYPE MR98H

TYPE MR98HH

	Liquid Service Relief Valves														
TV0-	BODY	RELIEF PI			SURE				IE RELIEF ESSURE E						
ITPE	TYPE SIZE, RANGE IN.				TING	5 psig /	0.34 bar	10 psig /	0.69 bar	20 psig	/ 1.4 bar	30 psig	/ 2.1 bar	50 psig	/ 3.4 bar
		psig	bar	psig	bar	GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min
MR98H-13	1/2 FNPT	25 to 75	1.7 to 5.2	50	3.4	16.9	66.1	26.8	103.4	38.0	140.8	40.8	154.9	49.3	184.5
MR98H-22	3/4 FNPT	70 to 140	4.8 to 9.7	100	6.9	32.4	121.0	53.5	201.4	78.9	300.0	87.3	331.0	104.2	394.4
MR98H-30	1 FNPT	70 to 140	4.8 to 9.7	100	6.9	32.4	121.0	53.5	201.4	78.9	300.0	87.3	331.0	104.2	394.4
MR98H-31	1 FNPT	130 to 200	9.0 to 13.8	175	12.1	29.6	112.4	47.9	178.9	77.5	291.5	90.1	342.3	118.3	446.5
MR98HH-19	1 FNPT	150 to 375	10.3 to 25.9	250	17.2	27.6	104.4	37.7	142.3	61.7	233.8	83.4	315.5	113.0	426.8

Vapor Relief Valves

Type 1805 – relief valve is designed for installation between the First and Second-Stage regulators or in the downstream line from a high-pressure regulator used for a Final-Stage service where high line pressures are allowed. Available in 1 or 2 in. valve bodies with a temperature rating of -20 to 150°F / -29 to 66°C.

Type 289H – relief valve is designed for installation downstream of larger high-pressure or low-pressure regulators in most all relief applications. The larger diaphragm in this relief valve provides extremely sensitive operation, with a temperature rating of -20 to 150°F / -29 to 66°C.

Types 1808 and 1808A – pilot-operated relief valve is designed to protect large high-pressure regulators by offering extremely high relief capacities compared to the Type 289H. The Type 1808 has a temperature rating of -20 to 180°F / -29 to 82°C.



TYPE 1805

TYPE 1808

	Vapor Relief Valves												
TYPE	BODY SIZE,	RELIEF START-TO-DISCHARGE		SPRING RANGE		PRESSURE BUILDUP OVER SET PRESSURE		CAPACITY (AIR)					
	IN.	psig	bar	psig	bar	psig	bar	SCFH	Nm³/h				
1805-18P	1 FNPT	15	1.03	5 to 35	0.34 to 2.41	15	1.03	6160 at 30 psig	161 at 2.07 bar				
1805-51P	2 FNPT	15	1.03	5 to 20	0.34 to 1.38	15	1.03	28,500 at 30 psig	748 at 2.07 bar				
1808A-61	2 FNPT, Angle	20	1.4	15 to 40	1.03 to 2.76	10	0.69	78,230 at 30 psig	2053 at 2.07 bar				
289H-42	1 FNPT	15	1.03	4 to 15	0.28 to 1.03	15	1.03	33,880 at 30 psig	889 at 2.07 bar				
289H-2	2 FNPT	24 in. w.c.	60 mbar	1/2 to 2-1/4	34 to 155 mbar	1.13	78 mbar	15,400 at 2 psig	38 at 138 mbar				

REGULATOR ACCESSORIES







TYPE Y602-13 (ANGLE TYPE)

Vent Assemblies

Attached directly to the regulator vent connection to a regulator vent line, vent assemblies should be pointed downward on outdoor installations to avoid moisture build-up in the regulator spring case. Units with stabilizer assembly are intended for regulators with stability problems. The stabilizer gives a restricted breathing rate under normal conditions, opening for rapid discharge when necessary. Screen material is Monel® with integral plastic screen for all except Type Y602-12.

	Vent Assemblies											
TYF	PE	SIZE	STABILIZER									
Umbrella Type	Angle Type	SIZE	STABILIZER									
	Y602-13	1/4 in. FNPT	No									
	Y602-14	1/4 III. FNP I	Yes									
Y602-1		1/4 in, MNPT	No									
Y602-2		1/4 In. MINP1	Yes									
Y602-3		3/8 in. O.D. Tubing	No									
Y602-4		(Flare Connection)	Yes									
Y602-12		1/4 in. MNPT	No									
	Y602-5	3/8 in. FNPT	No									
	Y602-6	3/8 IN. FNP1	Yes									
	Y602-7	4/0 in FNDT	No									
	Y602-8	1/2 in. FNPT	Yes									
	Y602-9	3/4 in. FNPT	No									
	Y602-23	3/4 in. MNPT	No									
	V000 05		No									



Small Portable Appliance Regulators

Type 912 – Designed for use on small portable outdoor appliances.

Underwriters Laboratory (UL®) requires horizontally mounted regulators to be installed with vent opening protection to prevent blockage by freezing rain. The 912 Series has a temperature rating of -20 to 160°F / -29 to 71°C.

					Applia	nce Regulat	ors						
TYPE	PRESSURE RANG			LET SURE	Canacities in RTII per hour Propage			INLET CONNECTION		OUTLET CONNECTION		ORIFICE SIZE	
	In. w.c.	mbar	In. w.c.	mbar	10 psig, Inlet	25 psig, Inlet	100 psig, Inlet	ln.	mm	ln.	mm	In.	mm
912N-194 ⁽¹⁾	3 to 7	7 to 17	5	12	101,000	151,000		1/4	6.4	1/4	6.4	0.073	1.85
912-104	9.25 to 13	23 to 32	11	27	101,000	270,000	349,000	1/4	6.4	1/4	6.4	0.073	1.85
912N-109 ⁽¹⁾	5 to 10	12 to 25	7	17	123,000	232,000	556,000	1/4	6.4	3/8	9.5	0.073	1.85
912-101	9.25 to 13	23 to 32	11	27	110,000	201,000	494,000	1/4	6.4	3/8	9.5	0.073	1.85
912-122	9.25 to 13	23 to 32	11	27	110,000	201,000	494,000	1/4	6.4	3/8	9.5	0.073	1.85
912H-108	0.5 to 2.7 psig	0.03 to 0.19 bar	1.5 psig	103	131,000	202,000	470,000	1/4	6.4	3/8	9.5	0.094	2.39
1. Not UL listed.	. Not UL listed.												

REGULATOR ACCESSORIES





TYPE P100C

Mounting Brackets

Mounting brackets are used to mount regulators securely to the container or to the side of the building.

Mounting Brackets										
REGULATOR TYPE	BRACK	ET STYLE								
REGULATOR TIPE	Triangular	Bowtie								
R622, R632, R642 and R622H	P100A	P100C								
R122H, R222 and R232	P100A									
912	P100A									



TYPE 50P-2

Test Gauge Assemblies

The 50 Series test gauges are used to check appliance line pressure after the regulator has been installed.

	Test Gauge Assemblies										
TYPE	TYPE INLET HOSE PLASTIC										
50-2	1/4 in. MNPT	No	No								
50P-2	Female Hose	Yes	Yes	0 to 35 / 0 to 87							
50P-5	remale nose	Yes	No								

Terluran® is a trademark of BASF.





TYPE P499

TYPE P500

Adaptor With Screen (Type P499)

Used to convert a 1/4 in. NPT inlet on regulators such as Types 912 and 67C to an inverted flare.

Type P500 Plug

Keeps dirt and foreign material from entering changeover assemblies. 1/4 in. Inverted Flare.

Type P501 Filter Assembly

Intended for the inlet of 67C Series regulators, the Type P501 prevents foreign material from reaching the regulator's valve disc.

Adaptor with Screen							
TYPE SIZE							
P499	1/4 in. Inverted Flare x 1/4 in. MNPT						



TYPE J542
BOTTOM CONNECTION



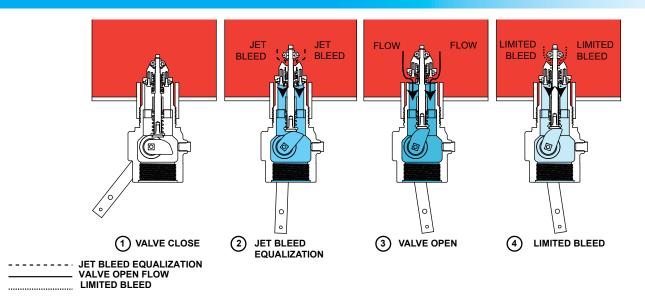
BACK CONNECTION

Pressure Gauges

Fisher™ brand offers pressure gauges with bottom or back connection for LPG service. The back connection makes a more compact assembly on installations where space is limited. All gauges have a 2 in. / 51 mm diameter face/black Terluran® plastic case.

	Pressure Gauges											
PRESSURE GAUGE RANGE, psig / bar												
Connection	Connection Size, In. 0 to 15 / 0 to 30 / 0 to 60 / 0 to 160 / 0 to 300 / 0 to 4.1 0 to 20.7 0 to 27.6											
Bottom	1/4	J500	J501	J502	J504	J506	J542 ⁽¹⁾					
Back	Back 1/4 J510 J511 J512 J514 J516 N/A											
1. For LPG	or Anhydro	ous ammon	ia (NH ₃) sei	rvice.								

INTERNAL VALVES



Fisher™ brand internal valves have gained wide field acceptance for use as primary shutoff valves, excess flow valves and back check valves⁽¹⁾. Internal valves are installed in the inlets and outlets (liquid or vapor) of pressure vessels and in piping systems to control the flow of LPG and Anhydrous Ammonia (NH₃). The most frequent application is on bobtail and transport truck tanks, but they may also be used on large stationary storage tanks and on in-line installations. The valves can be used in conjunction with or without pumps and compressors.

Features and Benefits

- Patented rapid equalization bleed area*—provides fast valve response for quick opening by moving the flow area away from the stem and allowing it to flow through the poppet. This not only increases flow rate, but also greatly improves valve cycle life which directly improves expected service life.
- Unique Serviceability Features*—Removable gland packing, stainless trim parts and poppet designed with integral wrench flat for easy maintenance.
- Durable Design—Stainless poppet and stem* interface smoothly for a long wear life.
- Excess Flow Closure—Functions when flow exceeds the valves rated capacity or piping is sheared off at the valve.
- Back Check Feature—Allows reverse flow, fill with or without actuator device in valve open position.
- Spring loaded PTFE stub shaft packing
- PTFE wear pads and Rulon® Bushings at critical wear points
- · Manual, Cable or Air Open/Close Control
- Thermal Fusible links or plugs melt at 212 to 220°F / 100 to 104°C and allow valve closure in the event of a fire at the valve.

Principle of Operation

The operational schematic below depicts threaded valves, however flanged styles operate in the same manner. For detailed information, refer to the Instruction Manual provided with the valve.

View #1

The valve is held closed by both tank pressure and the valve's closing spring. There is no leakage past the resilient seats in the poppet to the valve outlet.

View #2

The valve is opened by moving the operating lever to approximately midpoint in its 70° travel. This allows the cam to place the rapid equalization portion of the valve stem in the pilot opening, permitting a larger amount of product to bleed downstream than if the operating lever were moved to the full open position.

View #3

When tank and downstream pressure are nearly equal after a few seconds, the excess flow spring pushes open the main poppet and the operating lever can be moved to the full open position.

If tank pressure is greater than the valve's outlet pressure, the main poppet will remain in the closed position. If valve outlet piping is closed off by other valves, however, product bleeding through the pilot will increase until it nearly equals tank pressure and the main poppet opens. The main poppet will not open if valve outlet piping is not closed off so that the outlet pressure can approach tank pressure.

View #4

Once the main poppet opens, a flow greater than the valve's excess flow spring rating or a sufficient surge in flow forces the main poppet closed against the excess flow spring. The pilot valve allows a small amount of product to bleed, but much less than view # 2 where the rapid equalization portion of the stem is placed in the pilot opening. When the operating lever is moved to the closed position, the valve closes completely and seals tightly (view #1).

^{*}Unique to the Jet Bleed Internal™ Valve Design only.

^{1.} Because of the integral back check function of these valves, selective filling of manifold storage tanks requires the use of additional shutoff valves



Threaded Internal Valves

Emerson™ offers the widest variety of threaded internal valves in the industry. While their most frequent use is in the liquid and vapor openings of bobtail and transport trucks, the valves can also be used in stationary storage tanks, complying with NFPA 58 requirements. Designed as primary shutoff valves, the units are designed with several features that help control product discharge.

All UL®-listed internal valves are suitable for LPG or Anhydrous Ammonia (NH₃) service. Special construction is available for other compressed gases. All threaded internal valves have a compact, one-piece body design. They can be actuated manually, by cable control orwith an air cylinder.

C407-10 Series (1-1/4 in. / DN 32 Body Size) – An excellent valve for vapor return lines on bobtail trucks. Other applications include use as a main valve on small capacity pumping systems, Anhydrous Ammonia (NH_a) nurse tanks and in-line installations.

C477 Series (Straight-Through Body) – Available in 2 and 3 in. end connections. The most compact and economical unit in the Series, the C477 Series has one bottom outlet. The C477 Series can be used on bobtail, transport, stationary tank and in-line installations.

C471 Series (Tee Body) – Available in 2 and 3 in. end connections. This unit is designed with two outlets, bottom and side. The side outlet permits installing horizontal piping immediately adjacent to the tank without the need for extra pipe fittings. Either connection can be used for truck filling or withdrawal. The C471 Series is used primarily on bobtails and transport trucks.

C486 Series (Flange-by-NPT) – Available in 3 in. end connections. This unit was designed with an integrally cast inlet flange to quickly bolt to existing installations that historically required a valve to be threaded into a flange. Outlet is standard 3 in. FNPT.

			UL Ap	proved	C400 Se	ries Inte	rnal Valv	es es					
	TYF	PΕ	CL	OSING FLO	N (PROPANE	=) ⁽²⁾	VA	POR CAPACI	TY (PROPAN	E) ⁽²⁾	CLOSING F	LOW (NH ₃) ²	
CONNECTION INLET X OUTLET	Straight Body	Tee Body	Half Coupling		Full Coupling		25 psig / 1	.7 bar Inlet	100 psig / 6	3.9 bar Inlet	Half C	Half Coupling	
INCET X GOTEET	Straight Body	ree Body	GPM	l/min	GPM	l/min	SCFH	SCMH	SCFH	SCMH	GPM	l/min	
	C407-10-04		40	152	25	95	7400	210	12,700	360	36	136	
1-1/4 in. MNPT x 1-1/4 in. FNPT	C407-10-05		50	189	35	133	9600	272	16,400	464	45	170	
	C407-10-08 ⁽¹⁾		80	303	65	246	15,800	447	27,600	781	72	272	
	C477-16-10	C471-16-10	105	397	60	227	26,100	739	45,000	1274	95	360	
2 in. MNPT x 2 in. FNPT	C477-16-15	C471-16-15	150	568	80	303	39,400	1116	69,000	1954	136	515	
	C477-16-25	C471-16-25	250	946	130	492					227	859	
	C477-24-16	C471-24-16	160	606	120	454	41,100	1164	71,000	2011	145	549	
3 in. MNPT x	C477-24-26	C471-24-26	265	1003	230	871	71,800	2033	127,000	3596	239	905	
3 in. FNPT	C477-24-37	C471-24-37	375	1419	320	1211	99,000	2803	178,000	5040	339	1283	
	C477-24-46	C471-24-46	460	1741	380	1438					415	1571	
	C486-24-16		160	606	120	454	41,100	1164	71,000	2011	145	549	
3 in. CL300 RF x	C486-24-26		265	1003	230	871	71,800	2033	127,000	3596	240	908	
3 in. FNPT	C486-24-37		375	1419	320	1211	99,000	2803	178,000	5040	340	1287	
	C486-24-46		460	1741	380	1438					418	1582	

NOTE: Includes a factory installed Type P340 / P341 latch.

LPG Vapor exceeds UL differential requirement of 15 psid / 1.03 bar d.

^{2.} Closing Flows and Vapor Capacities listed are with valve in "bottom of tank" position. See product bulletins for additional data.

Special Service Threaded Internal Valves



C800 Series Threaded Internal Valves

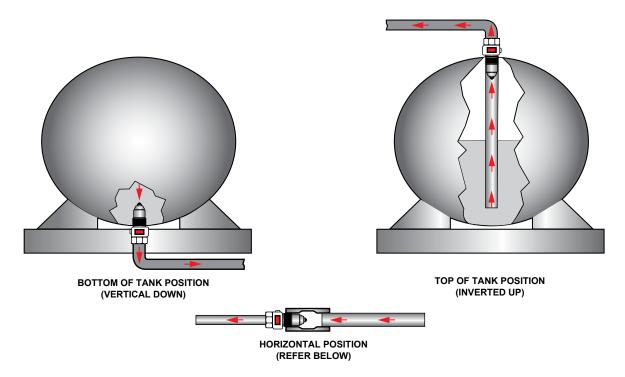
The Fisher™ C800 Series Internal Valves provide the same primary shutoff and excess flow protection as the C400 Series, but are offered in a wide variety of body materials and elastomeric seals. With industrial process installations spanning the globe, the C800 Series has been the trusted product line for decades.

Specifications

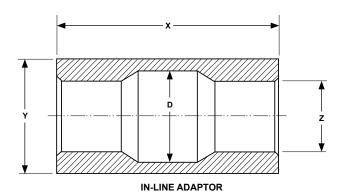
Emerson™ is the leader in special service conditions and offers a wide selection of metallic and elastomeric components to meet your demands. Every process or special service fluid has unique compatibility properties, pressure ranges and temperature ranges. Please contact your Fisher LPG Equipment distributor to help select the configuration that's best for you.

	C800 Series Special Service Internal Valves											
CONNECTION INLET X OUTLET	BODY STYLE	TYPE	BODY MATERIAL	ELASTOMER AVAILABLE PER ORDER(3)								
1-1/4 in. MNPT x	Straight Body	C807-10	Steel	Fluorocarbon	Nitrile (NBR)	PTFE						
1-1/4 in. FNPT	Straight Body	C807S-10	SST	(FKM)	Millie (NBK)	FIFE						
	Tee Body	C871-16	Ductile Iron									
2 in. MNPT x	Straight Body	C877-16	Ductile Iron			Kalrez ^{®(2)}	Neoprene (CR)	Nitrile (NBR)				
2 in. FNPT		C887-16	Steel									
		C897-16	SST	EDDM					DTEE			
	Tee Body	C871-24	Ductile Iron	EPDM	Viton®(1)				PTFE			
3 in. MNPT x 3 in. FNPT	Cámainhá Dadu	C877-24	Ductile Iron									
	Straight Body	C897-24	SST									
3 in. CL300 RF Flange x 3 in. FNPT	Straight Body	C886-24	Steel									

- 1. Viton® or Fluorocarbon (FKM) equivalent
- 2. Kalrez® or Perfluoroelastomer (FFKM) equivalent
- 3. Additional materials can be sourced upon request. Please contact your Fisher LPG Equipment Distributor for more information.



INTERNAL VALVE TANK POSITIONS



In-Line Adaptors (for reference only)*										
7	DIMENSION, IN. / mm									
2	X Y D									
1-1/4 in. FNPT	4.70 / 119	2.75 / 70	2.05 / 52							
2 in. FNPT	6.77 / 172	3.5 / 89	2.80 / 71							
3 in. FNPT	7.53 / 191	4.5 / 114	3.80 / 97							
* Not for sale.										

Threaded Valve Specifications

Pressure Rating: 400 psig / 27.6 bar WOG

Temperature(1): C470 Series:-20 to 150°F / -29 to 66°C

C800 Series: Contact your Fisher™ LPG Distributor

for details

Body: C470 Series: Ductile Iron C407-10 Series: Cast Steel C800 Series: Ductile Iron, Steel, SST

Packing: PTFE

Seat Discs: C407-10 and C470 Series: Molded, synthetic rubber C800 Series: Contact your local LPG Distributor

for details

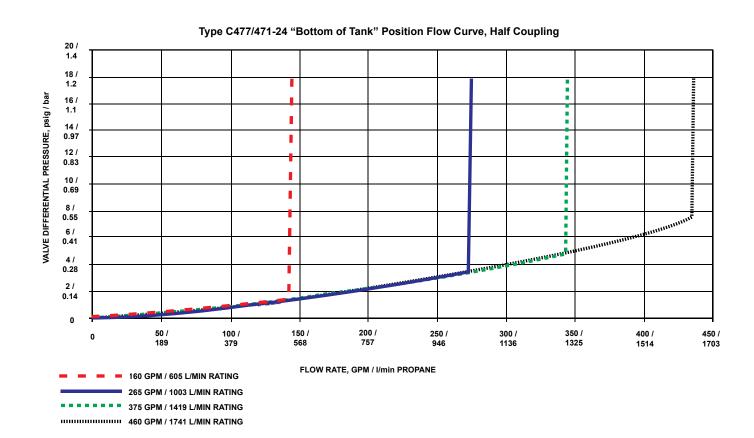
Stub Shaft and Stem: Stainless steel

WARNING

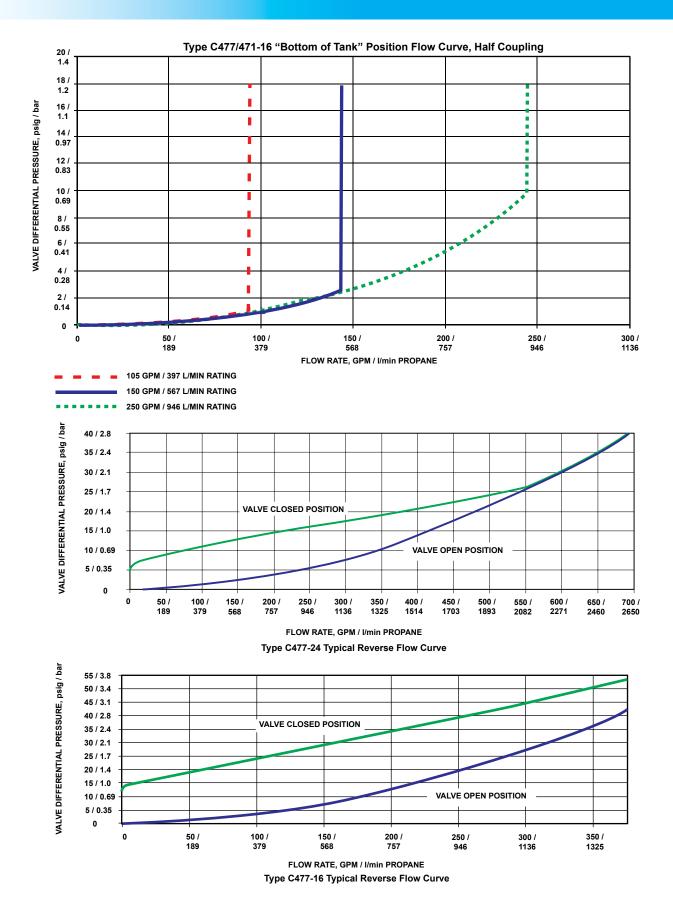
A line break downstream of a pump may not actuate the excess flow valve. If any break occurs in the system or if the excess flow valve closes, the system should be shutdown immediately.

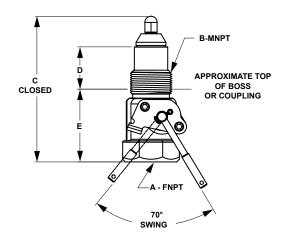
DO NOT USE the excess flow function incorporated into Fisher C Series internal valves or F Series excess flow valves to satisfy the passive shutdown requirement in 49CFR§173.315(n)(2). DO NOT include the excess flow incorporated into Fisher C Series internal valves or F Series excess flow valves in a DCE certification under 49CFR§173.315(n)(2). The cargo tank manufacturer must install some other equipment that satisfies the requirement for passive shutdown capability under 49CFR§173.315(n)(2).

Failure to follow this warning could result in serious personal injury or property damage from fire or explosion in the event of an unintentional release of product during an unload operation.

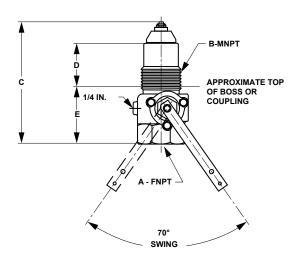


^{1.} Product has passed Fisher testing for pressure shutoff down to -40°F / -40°C.

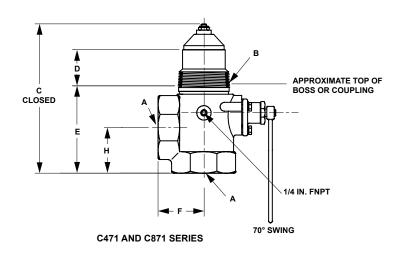




C407-10 AND C807-10 SERIES



C477, C877 AND C897 SERIES



	UL Approved C400 Series Internal Valves												
TYPE	A, IN.	B, IN.		DI	INSTALLATION CLEARANCE								
ITPE	(FNPT)	(MNPT)	С	D	E	F	Н	DIAMETER, IN. / mm					
C407-10	1.25	1.25	5.90 / 150	1.86 / 47	2.88 / 73			5.00 / 127					
C471-16	2	2	8.07 / 205	2.40 / 61	4.05 / 103	2.76 / 70	2.66 / 68	10.00 / 254					
C471-24	3	3	9.00 / 229	2.60 / 66	4.57 / 116	3.25 / 83	3.26 / 83	13.38 / 340					
C477-16	2	2	8.07 / 205	2.40 / 61	4.05 / 103			10.00 / 254					
C477-24	3	3	9.00 / 229	2.60 / 66	4.57 / 116			13.38 / 340					

Threaded Body Outlet Design and Size									
TYPE WRENCH SIZE, IN.									
C407-10	2-5/16 Octagon								
C471-16 and C477-16	3-1/4 Octagon								
C471-24, C477-24 and C486-24	4-1/2 Octagon								





Flanged Internal Valves

Flanged valves provide a sturdy and compact means of directly mounting a pump or piping connection. Special stud bolts, weakened with a groove on the outside diameter, are furnished with the valves to permit the pump or piping to shear off in the event of an accident, leaving the valve intact. A built-in excess flow valve reduces the chance of uncontrolled product discharge when flow exceeds the rated flow capacity.

All flanged valves have an internal screen for pump protection that can be easily removed if the valve is used primarily for filling the tank. They also contain PTFE packing to resist stub shaft leakage. These valves can be activated manually, by cable control or by air cylinder (refer to pages 60 and 61).

3 in. / DN 80 Flanged Sizes

Type C484-24 – A single-flange unit widely used on bobtail and transport trucks for a compact means of direct pump connection to the valve outlet. Another application for the Type C484-24 is on in-line installations.

Type C483-24 – A double-flange unit designed for special bobtail truck applications where the pump must be lowered to clear the truck frame or other obstacles. A special shear section in the body permits the lower section of the valve to shear off in the event of an accident, leaving the critical shutoff parts within the tank.

	UL Approved 3 in. / DN 80 Flanged Internal Valves													
	Type Number Closing Flow Propane Closing Flow NH ₃													
Size	Single Flanged	Double Flanged	Single F Bottom Posi		Double I Bottom Posi	of Tank		langed, f Tank tion*		Flanged, f Tank tion*	Bottom	langed, of Tank tion*	Bottom	Flanged, of Tank ition*
			GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min	GPM	l/min
2:- /	C484-24-16	C483-24-16	160	606	160	606	180	681	180	681	144	545	144	545
3 in. / DN 80	C484-24-25	C483-24-26	250	946	265	1003	250	946	290	1098	239	905	226	855
טוע טט	DN 80 C484-24-40 C483-24-40 400 1514 400 1514 400 1514 400 1514 361 1366 361 1366													
*See Interr	nal Valve Flow Position	ns (page 49) for descrip	otion of Bot	tom of Tank	, Top of Ta	nk and Hori	zontal Flow	Positions.						

	UL Approved 3 in. / DN 80 Flanged Internal Valves											
	Type Vapor Capacity Propane											
Size	Single Flanged	Double Flanged	Single I Bottom	5.9 bar Inlet, Flanged, of Tank tion**	Double I	i.9 bar Inlet, Flanged, of Tank tion**	Single F	.9 bar Inlet, Flanged, k Position*	100 psig / 6.9 bar Inlet, Double Flanged, Top of Tank Position*			
			SCFH	SCMH	SCFH	SCMH	SCFH	SCMH	SCFH	SCMH		
0: /	C484-24-16	C483-24-16	71,000	2011	71,000	2011	96,000	2718	96,000	2718		
3 in. / DN 80	C484-24-25	C483-24-26	NOT L	ISTED	127,000	3568	NOT L	ISTED	148,000	4191		
DIN 60	DN 80 C484-24-40 C483-24-40 181,000 5125 181,000 5125 190,000 5380 190,000 5380											
*See Interna	al Valve Flow Positions (pa	age 49) for description of B	ottom of Tank,	Top of Tank and	Horizontal Flow	Positions.						

Flanged Valve Specifications

Pressure Rating: 400 psig / 27.6 bar WOG

Temperature: Types C483 and C484(1): -20 to 150°F / -29 to 66°C

Type C404-32⁽²⁾: -20 to 150°F / -29 to 66°C

Body: Types C483 and C484-24: Cast steel and WCC

Type C404-32: Stainless steel

Packing: PTFE

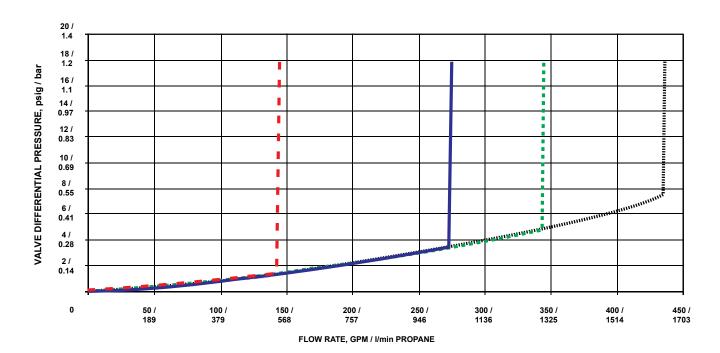
Seat Discs: Molded, synthetic rubber Stub Shaft and Stem: Stainless steel Gaskets: Non-asbestos spiral wound graphite

WARNING

A line break downstream of a pump may not actuate the excess flow valve. If any break occurs in the system or if the excess flow valve closes, the system should be shutdown immediately.

DO NOT USE the excess flow function incorporated into Fisher™ C Series internal valves or F Series excess flow valves to satisfy the passive shutdown requirement in 49CFR§173.315(n)(2). DO NOT include the excess flow incorporated into Fisher C Series internal valves or F Series excess flow valves in a DCE certification under 49CFR§173.315(n)(2). The cargo tank manufacturer must install some other equipment that satisfies the requirement for passive shutdown capability under 49CFR§173.315(n)(2).

Failure to follow this warning could result in serious personal injury or property damage from fire or explosion in the event of an unintentional release of product during an unload operation.





- 1. Product has passed Fisher testing for pressure shutoff down to -40 $^{\circ}\text{F}$ / -40 $^{\circ}\text{C}$.
- 2. Product has passed Fisher testing for pressure shutoff down to -50°F / -45°C.







TYPE C404-32

TYPE C404A32 WITH P614A ACTUATOR

TYPE C404M32 WITH P313 HANDLE ASSEMBLY

4 in. / DN 100 Flanged Size (Stainless Steel Construction)

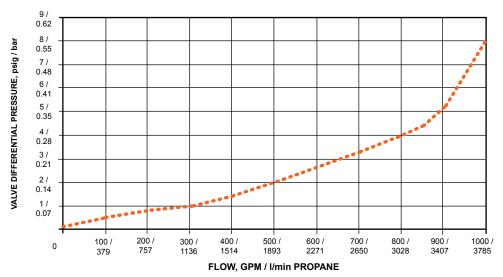
Type C404-32 – Used widely on transport trucks and large storage tanks, the 4 in. / DN 100 flanged unit comes standard with all stainless steel construction for maximum protection against rust and corrosion. For easy field maintenance, the seat ring is field replaceable.

The Type C404-32 is the only internal valve that cannot be opened and closed by the Type P650 cable control (refer to page 60).

Factory installation of an air cylinder or manual operating handle (with remote release mechanism) is available on the 4 in. / DN 100 flanged valves. Refer to ordering information below.

	UL Approved 4 in. / DN 100 Flanged Internal Valves											
	TYPE ⁽¹⁾		INLET,	OUTLET,	CLOSING FLOW, GPM / I/min		APACITY, IH PROPANE					
Cable	Air	Manual	IN. / DN	IN. / DN	PROPANE ⁽²⁾	25 psig / 1.7 bar Inlet	100 psig / 6.9 bar Inlet					
C404-32-34	C404A 32-34	C404M 32-34			340 / 1287	61,600 / 1745	104,800 / 2968					
C404-32-40	C404A 32-40	C404M 32-40	4 / 100 CL300	o	400 / 1514	63,900 / 1810	108,600 / 3076					
C404-32-60	C404A 32-60	C404M 32-60	ASME RF Modified 5-7/8 / 149 mm	4 / 100 CL300 ASME RF	600 / 2271	83,200 / 2356	141,500 / 4007					
C404-32-80	C404A 32-80	C404M 32-80	diameter bore		800 / 3028	259,600 / 7352	356,200 / 10,088					
C404-32-100	C404A 32-100	C404M 32-100			1000 / 3785							
1. 4 in. / DN 100 size	. 4 in. / DN 100 size available in single flange only.											

Closing flow vertical down.



TYPE C404-32 CAPACITY CURVE

Special Service Flanged Internal Valves



C800 Series Flanged Internal Valves

The Fisher™ C800 Series Flanged Internal Valves provide the same primary shutoff and excess flow protection as the C400 Series, but are offered in a wide variety elastomeric seals. With industrial process installations spanning the globe, the robust flanged C800 Series has been the trusted product line for decades.

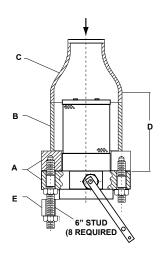
Type C804H-32 for Y-Grade: designed with a new formulated seal to withstand corrosive effects in Y-Grade natural gas liquid (NGL) applications. Retrofit kit available for Type C404-32: RC404YGT012.

Specifications

Emerson™ is the leader in special service conditions and offers a wide selection of metallic and elastomeric components to meet your demands. Every process or special service fluid has unique compatibility properties, pressure ranges and temperature ranges. Please contact your Fisher LPG Equipment distributor to help select the configuration that's best for you.

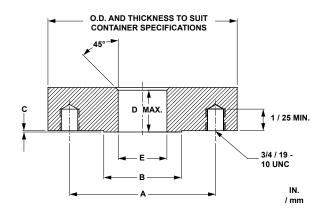
	C800 Series Special Service Internal Valves												
CONNECTION INLET X OUTLET	BODY STYLE	TYPE	BODY MATERIAL	ELASTOMERS AVAILABLE FOR ORDER(3)									
2 in. CL300 RF	Tee Body	C891-16	SST										
3 in. CL300 RF	Tee Body	C891-24	331	EPDM	Viton ^{®(1)}	Kalrez ^{®(2)}	Neoprene (CR)	Nitrile (NBR)	PTFE				
3 in. Mod. CL300 RF Fange x	Double Flange	C883-24	Steel	EPDIVI	VILOTI	Nailez							
3 in. CL300 RF Flange	Single Flange	C884-24	Steel										
		C804-32											
4 in. Mod. CL300 RF Flange x 4 in. CL300 RF Flange	Single Flange	C804A-32 ⁽⁴⁾	SST	Viton®(1)	PTFE	Y-Grade NGL ⁽⁶⁾	Nitrile (NBR)						
3.		C804M-32 ⁽⁵⁾											

- 1. Viton® or Fluorocarbon (FKM) equivalent
- Kalrez® or Perfluoroelastomer (FFKM) equivalent
- 3. Additional materials can be sourced upon request. Please contact your Fisher LPG Equipment Distributor for more information
- 4. Air Actuation
- 5. Manual.
- 6. Available as Types C804H32, C804HA32 and C804HM32.

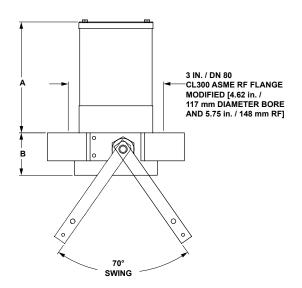


In-Line Piping							
		OUTLET					
A	B C D			E			
ASME CL300 RF Flange	Pipe Size	ASME CL300 RF Flange					
3 in. / DN 80	6 / 152	6 x 3 / 152 x 76	7.9 / 201	3 in. / DN 80			
4 in. / DN 100	8 / 203	8 x 4 / 203 x 102	11.5 / 292	4 in. / DN 100			

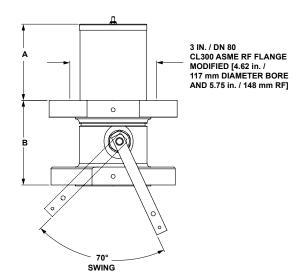
Studding Outlet (modified flange)



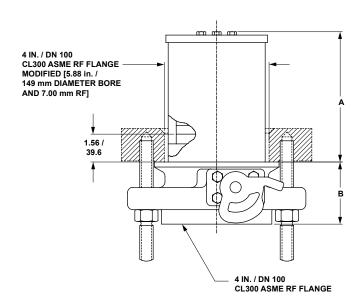
Tank Connections									
MODIFIED	MODIFIED DIMENSION, IN. / mm							MATING	
CL300 ASME RF		Α		B RF	С	D	E (Modified) ⁽¹⁾	FLANGE O.D., IN. / mm	
FLANGE	DBC	No.	Size		RF				
3 in. / DN 80	6.62	8	0.75	5.75 / 146	0.06 / 1.5	1.50 / 38	4.62 / 117	8.25 / 210	
4 in. / DN 100	7.88	8	0.75	7.00 / 178	0.06 / 1.5	1.56 / 40	5.88 / 149	10.00 / 254	
1 Can be increased up to	n 4 81 in / 122 mm	for 3 in valve and 6	19 in / 157 mm for	4 in valve if valve	and nasket are cent	ered with modified	flange opening		



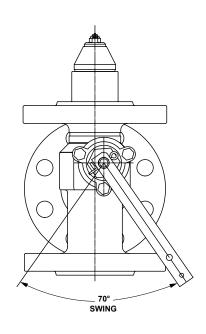
TYPES C484-24 AND C884-24



TYPES C483-24 AND C883-24



TYPES C404-32 AND C804-32



TYPE C891

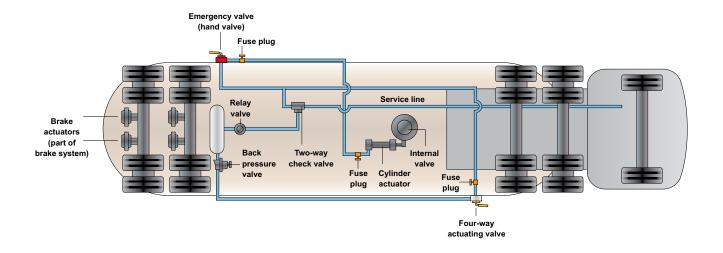
Flanged Valves							
TYPE	TANK CONNECTION,	DIMENSION, IN. / mm					
	IN. / DN	A	В				
C484-24	3 / 80 CL300 RF Flange	6.75 / 171	2.56 / 65				
C483-24	3 / 80 CL300 RF Flange	5.33 / 135	5.62 / 143				
C404-32	4 / 100 CL300 RF Flange	7.55 / 192	3.48 / 88				

INTERNAL VALVE CONTROLS

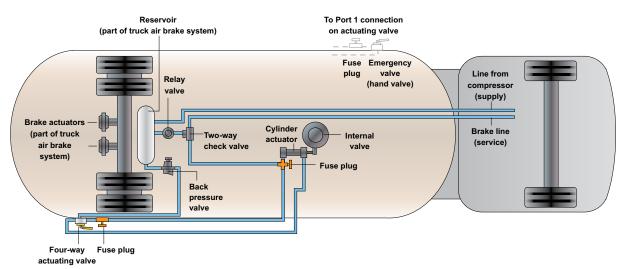
Air Interlock Systems

An air interlock system can be configured for transport and bobtail trucks with air brakes by using air cylinder actuated internal valves. This system simultaneously interlocks the internal operation with the truck air brakes without affecting normal air brake operation. It complies with DOT MC331 and NFPA 58 requirements regarding thermal and remote release feasibility.

The air interlock system permits the air brakes to set before the internal valve opens – even if the truck operator forgets to set the brakes. The brakes cannot be released until the internal valve is closed.



AIR INTERLOCK HOOK-UP ON TRANSPORT TRUCK



AIR INTERLOCK HOOK-UP ON BOBTAIL TRUCK

INTERNAL VALVE ACCESSORIES



Cable Controls

Fisher™ brand cable controls and accessories can be furnished to remotely open and close all internal valves except the 4 in. / DN 100 flanged size. This equipment can be used to comply with NFPA 58 and DOT requirements for MC331 cargo tanks.

Cable systems can also be used on stationary storage tanks at bulk plants and on in-line applications to increase safety during transfer operations. All fusible elements and links used in the cable control systems comply with NFPA 58 and MC331 requirements.

Type P650 or P651 Primary Cable Control – Capable of actuating all Fisher brand internal valves except the 4 in. / DN 100 Type C404-32, the Type P650 or P651 opens and closes the valve from a remote point, usually the rear of the bobtail or transport. Pulling the handle of the primary control opens the internal valve; pushing the handle closes the valve. There are three notches on the primary control that give a travel of 4, 5 or 6 in. / 102, 127 or 152 mm depending upon the travel required by the valve's operating lever.

Included with each Type P650 primary control is a 20-foot / 6.1 m cable, Type P134 fusible links, a return spring and mounting hardware. If just the primary cable control is needed, order Type P651, which is available without any of the other accessories.

Type P163A or P164A Auxiliary Remote Release – These units allow the internal valve to be closed from a location other than the primary control point (Type P650 or P651). Pulling the auxiliary release handle trips the release mechanism on the primary control to close the internal valve.

The two assemblies are identical except for the length. Type P163A has an untrimmed length of 25 feet / 7.6 m and Type P164A has an untrimmed length of 50 feet / 15.2 m. Both cables can be trimmed to any length. Both releases can be installed through mounting brackets up to 3/8 in. / 9.5 mm thick.

Type P164B – a release assembly that uses 50 feet / 15 m of cable housing which does not require elaborate guiding like uncovered cables.

Type P164C – an Auxiliary Remote Release without cable is also available.

Latch/Remote Release Mechanisms

With the exception of the 3 in. / DN 80 flanged sizes, all Fisher brand internal valves can be fitted with a manual latch/remote release mechanism. When the internal valve's operating lever is manually moved to the open position, the lever can be latched in the open position. The lever can be released from a remote location by pulling on the cable attached to a pull ring, thus closing the internal valve. A built-in fusible element in the latch/release melts if exposed to fire allowing the operating lever to return to the closed position.

Type P340 – Fits all 2 and 3 in. NPT internal valves (Types C471 and C477). Type P340 is easily installed in the field by removing two of the three gland cap screws.

Type P341 – Fits 1-1/4 in. NPT C407 Series internal valves. Also available factory installed, Type C407M10.

Type P342 – Bi-directional latch/remote release for the 1-1/4 in. NPT C407-10 Series allows operation from two directions.

Type P313 – Fits 4 in. / DN 100 Type C404-32 internal valves. Also available factory installed, Type C404M32. The Type P315 remote release should be used with this release.

Type P314 – This cable assembly is used as an attachment from the Type C404-32 operating lever to the primary cable control. The assembly includes a 40-foot / 12.2 m cable, a special bushing with a fusible element and clamp. The bushing fits in the valve-operating lever and has a built-in fusible element that will melt if exposed to fire, allowing the Type C404-32 to close. The cable connects to the bushing and the clamp permits the other end of the cable to be attached to the fusible link (not furnished) at the primary cable control.

Type P315 – On manually actuated 4 in. / DN 100 valves (Type C404M32), Type P315 remote handle release can be used to close the internal valve from a remote location. Cable linkage (30 feet / 9.1 m) and mounting hardware are included.

Internal Valve Accessories							
INTERNAL VALVE SIZE, IN. / DN	PRIMARY CABLE CONTROL	AUXILIARY REMOTE RELEASE	CABLE ASSEMBLY	LATCH/RELEASE MECHANISM			
1-1/4, 2 and 3 / 32, 50 and 80 (NPT or Flanged)	Type P650 or P651 ⁽¹⁾	Type P163A or P164A	Included with Type P650	Type P341, P342 (C407-10 Series) or Type P340 (C400 Series)			
4 / 100 Flanged	Use Allegheny or Wheaton Control	Type P315	Type P314	Type P313 ⁽²⁾			
Type P651 is a primary control only, Use with Type P315 remote release	, no accessories.						

INTERNAL VALVE ACCESSORIES



NOTE: INTERNAL VALVES SHOWN ARE NOT INCLUDED.

P Series Pneumatic Actuators

All Fisher™ brand internal valves can be ordered with a pneumatic actuators that permits the valve to be opened and closed from a remote location. Two styles of pneumatic actuators are available: P600 Series 'Brake Chamber' style actuators and P700 Series 'Rotary' style rack-and-pinion actuators. For the P600 Series when air pressure is applied to the actuator, it moves the actuator's rod and internal valve operating lever to the open position. Upon loss of air pressure, the valve's operating lever returns to the closed position. For the P700 Series, when air pressure is applied to the actuator, pistons act on a gear assembly that rotates the internal valve lever to the open position. Upon loss of air pressure, the valve will return to the closed position. Besides air pressure, nitrogen or carbon dioxide can also be used to pressure the actuators. In addition, the P700 Series supply source can be propane vapor.

Use of a pneumatic actuator permits the opening and closing of the internal valve to be tied into the air brake of the transport or bobtail. Pneumatic Actuators can also provide a convenient way to remotely operate a number of internal valves on stationary storage tanks at bulk plants.

Type P389 (1-1/4 in. / DN 32 Size) – This actuator can only be used with the C407-10 Series valve. All necessary hardware for installing the actuator is included. Minimum pressure is 60 psig / 4.1 bar; maximum pressure is 250 psig / 17.2 bar.

Types P613, P623, P639A and P614A Brake Chamber Actuators – The actuator attaches directly to the valve after removal of the cable-operating lever. Included in each assembly is an operating lever and appropriate mounting hardware specific to each respective valve.

These actuators can only be used with the internal valves as specified on the table below.

Types P731, P713, P714, P723 and P739 Rotary Actuators – The actuator attaches directly to the valve after removal of the cable-operating lever. Included in each assembly is an operating lever and appropriate mounting hardware specific to each respective valve in addition to air pressure, nitrogen and carbon dioxide, the P700 Series can be actuated with propane vapor.

Fuse Plugs – When installed in the actuator piping at the valve, will allow the pneumatic pressure to vent closing the valve if the plug is exposed to temperature between 208 to 220°F / 98 to 104°C. Fuse plugs are available in two sizes, 1/8 in. NPT (T1140399982) and 1/4 in. NPT (T1033699982).

	Pneumatic Actuators Ordering Information								
INTERNAL VALVE	BRAKE CHAMBER STYLE	E PNEUMATIC ACTUATOR	ROTARY STYLE PNEUMATIC ACTUATOR						
TYPE	Туре	Supply Pressure Range, psig / bar	Туре	Supply Pressure Range, psig / bar					
C407-10	P389	60 to 250 / 4.1 to 17.2	P731	50 to 125 / 3.5 to 8.6					
C484-24	P613	20 to 125 / 1.4 to 8.6	P713	25 to 125 / 1.7 to 8.6					
C483-24	P623	20 to 125 / 1.4 to 8.6	P723	25 to 125 / 1.7 to 8.6					
C471 and C477 (2 and 3 in. NPT Sizes)	P639A	20 to 125 / 1.4 to 8.6	P739	25 to 125 / 1.7 to 8.6					
C404-32	P614A	40 to 125 / 2.8 to 8.6	P714	40 to 125 / 2.8 to 8.6					

EMERGENCY SHUTOFF VALVES - BULK PLANTS







TYPE N551 (VALVE CLOSED)

TYPE N551 WITH TYPE P327D

TYPE N551 WITH TYPE P539A

Snappy Joe™ Emergency Shutoff Valves for Bulk Plants

Snappy Joe **Type N551** Emergency Shutoff Valves (ESVs) are designed for in-line installations, usually near a bulkhead. The valves provide a means of shutting off gas in the event of a hose rupture or piping break at the transfer area to avoid a large scale loss of LPG or Anhydrous Ammonia (NH_a).

The valves can be manually opened and closed at the installed location or closed remotely by either cable or air. A remote operating actuator is also available.

High Flow Capacity – The main poppet moves completely out of the flow stream for extremely low restriction-to-flow.

Operational Ease – Moving the operating lever to the vertical position opens the valve, making it simple to tell if the unit is open or closed. A pilot valve in the poppet opens as the lever is moved upward to pressurize the hose. Once equalized, the poppet moves quickly to the open position.

The valve is closed by simply pushing the lever down without first having to trip a latch. The operating lever is easily reached from across a bulkhead. All sizes look similar and operate exactly the same, an important point in an emergency situation.

Fusible Element – The fusible element is located at the hub of the operating lever and stub shaft. When exposed to fire, the element melts allowing the stub shaft to turn. The poppet then moves to the closed position, even if the operating lever has been wired open.

Rugged Construction – Heavy duty construction makes Snappy Joe ESVs suitable for use as a "working" shutoff valve for the transfer area, even under frequent use. The internal closing spring is protected from the elements and tampering. All seats and seals use UL®-approved materials rated for -40°F / -40°C and have metal back-up seals for extended fire resistance. The valves are rated 400 psig / 27.6 bar WOG.

Ease of Service – Serviceable without removal from the pipeline. Parts that wear are external and can be changed out in a matter of minutes. The packing can be changed with the valve in-line.

Cable Release – Standard valves are fitted with a release mechanism for cable attachment. A cable connected to the wire loop allows closure from a safe remote location, such as the bulk plant entrance.

While the ordinary cable can be used, the **Type P164B** release assembly is available. This assembly uses 50 feet / 15 m of cable housing which does not require elaborate guiding like uncovered cables.

Pneumatic Operation – Remote pneumatic closure is available with **Type P327D** release. Depending upon valve inlet pressure, a minimum supply pressure of 30 to 70 psig / 2.1 to 4.8 bar on the Type P327D allows the valve to be latched in the open position with manual closure possible at the valve. Loss of supply pressure to the cylinder permits the ESV to close. Air, nitrogen or ${\rm CO_2}$ can be used for the cylinder supply source. Maximum inlet pressure to the cylinder is 125 psig / 8.6 bar. Operating Temperature Rating = -40 to 160°F / -40 to 71°C.

Type P539A pneumatic actuator permits opening and closing Fisher™ brand N551 Series Snappy Joe emergency shutoff valves (ESVs) both at the valve with the use of a pneumatic 4-way valve and from a remote location. The actuator opens the valve when pressure is applied. Minimum pressure is 20 psig / 1.4 bar and maximum pressure is 30 psig / 2.1 bar.

Upon loss of pressure, the N551 Series closes, assisted by the spring in the pneumatic actuator.

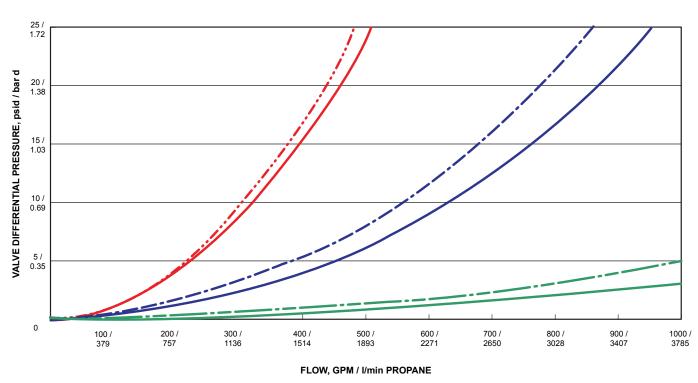
Type N851 for Special Service

The Type N551 can be ordered with alternate elastomer compounds for various industrial process applications. The **Type N851K** is assembled with FFKM (Kalrez® or equivalent) and can be used in a variety of fluid services. Other materials may be available. Contact your local Fisher LPG Distributor for more details.

EMERGENCY SHUTOFF VALVES - BULK PLANTS

Emergency Shutoff Valves							
TYPE	BODY SIZE, IN.	FLOW IN GPM / I/min PROPANE				ACCESSORIES	
ITPE	BODT SIZE, IN.	1 psid / 69 mbar d	2 psid / 0.14 bar d	ACCESSURIES			
N551-10	1-1/4 FNPT	110 / 416	150 / 568				
N551-16	2 FNPT	190 / 719	295 / 1117	Type P164B Cable Release Type P327D Pneumatic Release Type P539A Pneumatic Actuator			
N551-24	3 FNPT	580 / 2195	850 / 3127	Type F339A Pileumatic Actuator			

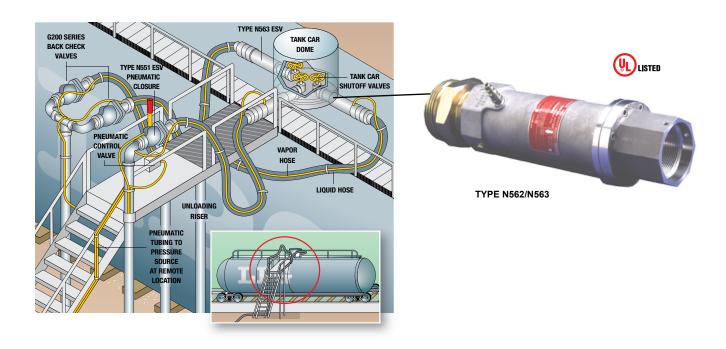
TYPE N551 CAPACITY CURVE



TYPE N551-10 WITH TYPE P539A ACTUATOR
TYPE N551-10 WITH MANUAL LEVER
TYPE N551-16 WITH TYPE P539A ACTUATOR
TYPE N551-16 WITH MANUAL LEVER
TYPE N551-24 WITH TYPE P539A ACTUATOR

TYPE N551-24 WITH MANUAL LEVER

EMERGENCY SHUTOFF VALVES - RAILCARS



Snappy Joe™ Emergency Shutoff Valves for Railroad Tank Cars

Snappy Joe Emergency Shutoff Valves (ESVs) are designed for railcar protection and attached to the shutoff valves on railroad tank cars (refer to installation drawing). Typically three ESVs are used – two on the liquid lines and one on the vapor line. NFPA 58 regulations call for ESV protection on both sides of the transfer hose or piping. Types N562 and N563 are UL® listed for service in Propane and Anhydrous Ammonia. Its Nitrile (NBR) elastomer are UL approved to -40°F / -40°C.

Pneumatically operated, the valve is opened and closed by means of a standard quick-disconnect coupling (furnished). Approximately 20 to 60 psig / 1.4 to 4.1 bar is needed to open the valve, depending upon tank car pressure. Remote closure from one or more points, such as the unloading riser, is accomplished by exhausting pressure from the valve's piston chamber with a pneumatic control valve.

Ease of Use

- Nipple lengths attached to the 2 in. NPT female inlet are field selectable. These nipples can be easily secured and replaced.
- · Outlet is FNPT or ACME for easy connection
- Pneumatically operated with guick disconnect coupling (included)

Application Flexibility

- UL approved for LPG and Anhydrous Ammonia (Nitrile (NBR) only)
- Comprehensive line of elastomers for all other compressed gas service
- A 1/4 in. FNPT opening in the hex portion can be used to install a bleed valve

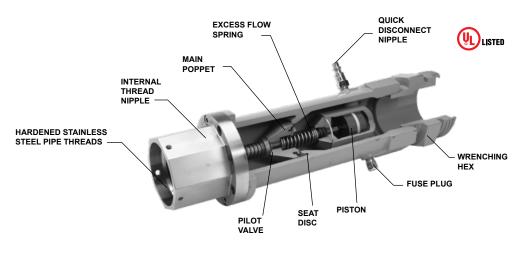
System Protection

- · Remote shutoff capability
- Emergency shut-off in the event of fire: valve closes at 212°F / 100°C

Durability

- · All Stainless steel construction
- Wrenching Hex to prevent damage when connecting or disconnecting
- · Hardened Stainless steel threads to reduce wear

EMERGENCY SHUTOFF VALVES - RAILCARS



TYPE N562

Type N562 ESV integrates shutoff valve with an excess flow protection to automatically close if flow exceeds 200 GPM / 757 l/min propane at 13 psid / 0.90 bar d.

Railcar Emergency Shutoff Valves with Excess Flow							
TYPE	ELASTOMER	UL LISTED	INLET CONNECTION, IN.	OUTLET CONNECTION, IN.			
N562-16				2 FNPT			
N562-18	Nitrile (NBR)	YES		2-1/4 Male Acme			
N562-26]			3-1/4 Male Acme			
N862K-16				2 FNPT			
N862K-18	Kalrez®(1)		2 FNPT	2-1/4 Male Acme			
N862K-26		NO		3-1/4 Male Acme			
N862V-16				2 FNPT			
N862V-18	Viton®(3)			2-1/4 Male Acme			
N862V-26				3-1/4 Male Acme			

Type N563 ESV is designed for higher flow needs. It flows up to 413 GPM / 1563 l/m to reduce loading/unloading time and provide faster railcar turnover.

Railcar High Flow Emergency Shutoff Valves								
TYPE	ELASTOMER	UL LISTED	INLET CONNECTION, IN.	OUTLET CONNECTION, IN.				
N563-16	Nitrile (NBR)	Yes		2 FNPT				
N563-26	Mulle (NDIX)	res	2 FNPT	3-1/4 Male Acme				
N863E-16	- EPDM			2 FNPT				
N863E-26	EPDIVI	No		3-1/4 Male Acme				
N863K-16	Kalrez®(1) Neoprene (CR)			2 FNPT				
N863K-26				3-1/4 Male Acme				
N863N-16				2 FNPT				
N863N-26				3-1/4 Male Acme				
N863T-16	Teflon®(2)			2 FNPT				
N863T-26	Tellon ^{s(z)}			3-1/4 Male Acme				
N863V-16	Viton®(3)			2 FNPT				
N863V-26	VILON			3-1/4 Male Acme				

^{1.} Perfluoroelastomer (FFKM) equivalent

^{2.} PTFE equivalent

^{3.} Fluorocarbon (FKM) equivalent

Excess Flow Valves



Excess flow check valves are intended to close upon excessive discharge of vapor or liquid resulting from a break in the hose or piping system. They are used to protect cylinder, tank and piping systems and are available in a large variety of sizes and body configurations. Standard temperature rating is -20 to 160°F / -29 to 71°C.

When flow exceeds the valve's setting, the valve closes and remains closed until the system equalizes. A built-in equalizing passage automatically opens the valve once pressure on both sides of the poppet is equal. Valves larger than 1/2 in. NPT have a drill size No. 60. Valves with a 1/2 in. NPT and smaller have a limited bypass to comply with NFPA 58.

WARNING

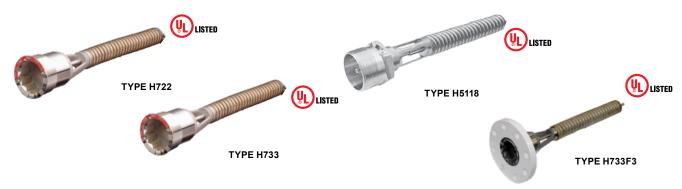
A break or leak downstream of an excess flow valve, that does not allow a flow equal to the valve flow rating, will not actuate the valve and could cause a hazardous condition. For this reason, system operators should be familiar with the shutoff valves in the system so that necessary precautions can be taken in an emergency.

Care must be taken to be sure the valve's closing rate is less than the capacity of the LPG or Anhydrous Ammonia (NH₃) system in which the valve is installed. Brass valves are not suitable for Anhydrous Ammonia (NH₃) applications.

See the WARNING on page 50, if these excess flow valves are to be used on DOT Cargo Tanks.

UL Approved Excess Flow Check Valves										
			INLET	OUTLET	-	ED CLOSING FLO ORIZONTAL POS	,	DIFFERENTIAL	WORKING	
TYPE MATERIAL	APPLICATION	CONNECTION,	CONNECTION,	Limuid	Vapor SCI	FH / SCMH	PRESSURE,	PRESSURE		
			IN.	IN.	Liquid GPM / I/min	25 psig / 1.7 bar Inlet	100 psig / 6.9 bar Inlet	psid / bar d	psig / bar	
F138	Brass	In Line	1/4 MNPT	1/4 FNPT	1.8 / 6.8	377 / 10.7	641 / 18.2	1.4 / 0.097		
F202	Brass	In-Line	Male POL	1/2 SAE Flare	1.9 / 7.2	634 / 17.9	1100 / 31.1	2.6 / 0.18		
F170	Brass				6.6 / 25.0	1184 / 33.5	2012 / 57.0	1.2 / 0.08]	
F100	Brass		3/4 MNPT	3/4 FNPT	8.4 / 31.8	2010 / 56.9	3417 / 96.8	2.4 / 0.17]	
F101	Brass	Tanks			20 / 76.0	3459 / 97.9	5880 / 167	8.5 / 0.59]	
F102	Brass	(Full or Half Coupling)		1-1/4 MNPT	1-1/4 FNPT	33 / 125	6300 / 178	10,630 / 301	10.7 / 0.74	1
F105	Brass		1-1/4 MINP1	1-1/4 FNP1	55 / 208	9982 / 283	16,967 / 480	10.7 / 0.74	1	
F106	Brass		7 i	2 MNPT	2 FNPT	85 / 322	18,513 / 524	31,467 / 891	2.6 / 0.18	1
F107	Brass		2 IVINP I	ZENPI	100 / 379	20,796 / 589	35,349 / 1001	3.6 / 0.25		
F130	Brass		1 FNPT	1 FNPT	25 / 94.6	5287 / 150	8986 / 254	3.3 / 0.23		
F131	Brass	In-Line	1-1/2 FNPT	1-1/2 FNPT	60 / 227	11,694 / 331	19,877 / 563	4.7 / 0.32]	
F132	Brass		2 FNPT	2 FNPT	96 / 363	19,874 / 563	33,877 / 959	2.1 / 0.14	250 / 17.2	
F133	Brass		2 FINE I	2 FINF I	155 / 587	29,202 / 827	49,718 / 1408	4.2 / 0.29]	
F134	Brass	Tanks	1-1/2 MNPT x 1 FNPT	1 FNPT	28 / 106	5181 / 147	8806 / 249	2.7 / 0.19		
F135	Brass	(Full or Half Coupling)	2-1/2 MNPT x 1-1/2 FNPT	1-1/2 FNPT	60 / 227	12,000 / 340	20,290 / 575	5.2 / 0.35		
F190	Steel			2 MNPT x	80 / 303	15,400 / 436	26,250 / 743	3.7 / 0.26	1	
F191	Steel	1	2 MNPT	1-1/4 FNPT	105 / 397	18,800 / 532	32,000 / 906	8.9 / 0.61	1	
F194	Steel	Tanks ⁽¹⁾ (Full or Half Coupling)	O MNDT	O MANIDT	165 / 625	32,800 / 929	55,950 / 1584	3.1 / 0.21	1	
F195	Steel		3 MNPT	2 MNPT	260 / 984	50,650 / 1434	86,350 / 2445	6.9 / 0.48	1	
F198	Steel		O MNDT	3 MNPT x	165 / 625	33,000 / 934	56,250 / 1593	3.1 / 0.21	1	
F199	Steel	1	3 MNPT	2 FNPT	260 / 984	49,500 / 1402	84,350 / 2389	7.1 / 0.49	1	
. LPG or Ni	H ₃ service.			•			•		•	

INTERNAL RELIEF VALVES



Relief Valves for Mobile Tanks and Transports

Primarily for trucks transporting LPG, Anhydrous Ammonia (NH₃) or other compressed gases.

Types H722, H733 and H5118 stainless steel relief valves resist rust and corrosion, including a 300 Series stainless steel spring for additional resistance to product contaminants. A thickly molded main seal improves service life and resistance to severe applications. Stainless steel makes it easy to remove the valve from the tank for periodic testing (as prescribed by DOT) and permits standard tank couplings instead of the more costly flanged tank openings. The Type H733 has an optional CL300 RF Flange connection. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Type H5118: Semi-Internal relief valve for 2 in. threaded recessed well-head connections.

Tight fitting protective caps (Types P297, P298 and P299) are standard on the valve to ensure no debris blocks the valve discharge. Standard setpoints listed with UL® for the Type H722 include 125, 156, 250, 265, 275 and 312 psig / 8.6, 10.8, 17.2, 18.3, 19.0 and 21.5 bar. Standard set points listed with UL for the Types H733 and H5118 include 250 and 265 psig / 17.2 and 18.3 bar. All set points between 100 and 400 psig / 6.9 and 27.6 bar are available with ASME approvals.

A 1-1/2 and 2-1/2 in. hex size (Type P304 or P305) wrench can be inserted into the valve socket when installing/removing the valve to provide a means of attaching a standard wrench.

			UL Approv	ed Internal Rel	ief Valves			
TYPE	CONTAINER CONNECTION, IN.		DISCHARGE TING		APACITY, CMH AIR	FOR TANK WITH AREA UP	PROTECTIVE CAP	
	CONNECTION, IN.	psig	bar	UL	ASME	10 [®] ; Ft²/ m²	(INCLUDED)	
H722-250		250	17.2	3635 / 6176	3203 / 5136	171 / 15.9		
H722-265	2 MNPT(1)	265	18.3	3556 / 6042	3386 / 5753	166 / 15.4	Type P297	
H722-275	1 [275	19.0	3714 / 6310	3508 / 5960	175 / 16.3		
H733-250	3 MNPT ⁽²⁾	250	17.2	10,150 / 17,245	9369 / 15,918	598 / 55.6	Tune D200	
H733-265		265	18.3	10,940 / 18,587	9904 / 16,827	655 / 60.9	Type P298	
H733F3-250	3 in. CL300 RF	250	17.2	10,150 / 17,245	9369 / 15,918	598 / 55.6	Tuna D200	
H733F3-265	Flange	265	18.3	10,940 / 18,587	9904 / 16,827	655 / 60.9	Type P298	
H5118-250 ⁽⁴⁾	2 MNDT	250	17.2	10,530 / 17,891	9724 / 16,521	625 / 58.1	Type P299	
H5118-265 ⁽⁴⁾	2 MNPT	265	18.3	11,300 / 19,199	10,280 / 17,466	681 / 63.3		

- 1. Order Type P304 (1-1/2 in. hex bar) installation wrench.
- Order Type P305 (2-1/2 in. hex bar) installation wrench.
 Based on UL flow capacities.
- 4. Use with a 3.5 in. hex size installation tool

		Internal Relief Valve	S	
TYPE	CONTAINER CONNECTION, IN.	SPRING RANGE ⁽³⁾ , psig / bar	MATERIAL OPTION	ASME FLOW RATE FACTOR ⁽⁴⁾
H822-1	2 MNPT ⁽¹⁾	100 to 150 / 6.9 to 10.3		
H822-2	2 MNPT ⁽¹⁾	151 to 250 / 10.4 to 17.2		10.18
H822-3	2 MNPT ⁽¹⁾	251 to 400/ 17.3 to 27.6		
H833-1	3 MNPT ⁽²⁾	100 to 149 / 6.9 to 10.3	Standard - Nitrile (NBR) E - EPDM	
H833-2	3 MNPT ⁽²⁾	150 to 200 / 10.3 to 13.8	K - Kalrez®	
H833-3	3 MNPT ⁽²⁾	201 to 275 / 13.9 to 19.0	N - Neoprene (CR) V - Viton®	29.77
H833-4	3 MNPT ⁽²⁾	276 to 330 / 19.0 to 22.8]	29.11
H833-5	3 MNPT ⁽²⁾	331 to 400 / 22.8 to 27.6	1	
H833F3-3	3 CL300 RF Flange	201 to 275 / 13.9 to 19.0		
H8118-3 ⁽⁵⁾	2 MNPT	201 to 275 / 13.9 to 19.0	Standard - Nitrile (NBR) N - Neoprene (CR)	30.90

- 1. Order Type P304 (1-1/2 in. hex bar) installation wrench.
- 2. Order Type P305 (2-1/2 in. hex bar) installation wrench.
- 3. ASME-Approved set points approved within these spring ranges.
- 4. ASME Flow Capacity (SCFM Air) = [Set Pressure (psig)*1.2+14.7]* ASME Flow Rate Factor.
- 5. Use with a 3.5 in. hex size installation tool.

INTERNAL RELIEF VALVES



Relief Valves for Bulk Storage

Types H284 and H5114 internal spring relief valves can be used in the H500 Combo Joe™ relief valve manifold or as separate units on stationary tanks. The valves are identical except for valve body materials - Type H284 of brass (LPG service) and Type H5114 of 316 Stainless steel (Anhydrous Ammonia (NH₃) or LPG service). All other components are stainless steel, including a 300 Series Stainless steel spring for additional resistance to product contaminants. A thickly molded main seal improves service life and resistance to severe applications. Flow area is 3.20 sq. in. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

When used in ASME tanks, internal spring relief valves have only the poppet and part of the body outside the tank. The adjusting

screw and all other parts are inside the tank, safe from tampering. Standard setpoints listed with UL® for the Type H284 includes 225 and 250 psig / 15.5 and 17.2 bar. Standard setpoints listed with UL for the H5114 includes 250 and 265 psig / 17.2 and 18.3 bar. All set points between 100 and 400 psig / 6.9 and 27.6 bar are available with ASME approvals.

Outlet is 3 in. NPT for discharge stack connection. Type P104-24 pipe away adaptor (3 in. FNPT) is available for use with either valve. A 3-1/2 in. wrench can be used when installing or removing the valve. The drain deflector is furnished as standard on both the Types H284 and H5114. The Type P299 Rain Cap ships standard with each valve.

	UL Approved Types H284 and H5114 Large Stationary Tank Relief Valves								
TYPE(1)	CONTAINER CONNECTION,	SERVICE	CONSTRUCTION MATERIAL	START-TO-DISCHARGE SETTING, psig / bar	FLOW CA	FOR TANK WITH AREA UP TO(2):			
	IN.		WATERIAL	SETTING, psig / bar	UL	ASME	Ft²/ m²		
H284-225		1.00	Brass	225 / 15.5	9835 / 16,710	8797 / 14,946	575 / 53.4		
H284-250	2 MNPT	LPG		250 / 17.2	10,530 / 17,891	9724 / 16,521	625 / 58.1		
H5114-250	ZIVINFI	NIII aal DC	Stainless	250 / 17.2	10,530 / 17,891	9724 / 16,521	625 / 58.1		
H5114-265]	NH₃ or LPG	Steel	265 / 18.3	11,300 / 19,199	10,280 / 17,466	681 / 63.3		
1. Use with a 3.5 in.	I. Use with a 3.5 in. hex size installation tool.								

^{2.} Based on UL flow capacities.

	Types H884 and H8	114 Special Service Large	Stationary Tank Relief V	alves
TYPE	SPRING RANGE ⁽²⁾ , psig / bar	CONTAINER CONNECTION, IN.	MATERIAL OPTION	ASME FLOW RATE FACTOR(3)
H884-1	100 to 149 / 6.9 to 10.3			
H884-2	150 to 200 / 10.3 to 13.8			
H884-3	201 to 275 / 13.9 to 19.0			
H884-4	276 to 330 / 19.0 to 22.8		Standard - Nitrile (NBR)	
H884-5	331 to 400 / 22.8 to 27.6	E - EPDM 2 MNPT x 3 MNPT ⁽¹⁾ K - Kairez®	30.90	
H8114-1	100 to 149 / 6.9 to 10.3	2 WINET X 3 WINET (*)	N - Neoprene (CR)	30.90
H8114-2	150 to 200 / 10.3 to 13.8		V - Viton®	
H8114-3	201 to 275 / 13.9 to 19.0			
H8114-4	276 to 300 / 19.0 to 22.8			
H8114-5	331 to 400 / 22.8 to 27.6			

^{1.} Use with a 3.5 in. hex size installation tool.

^{2.} ASME-Approved set points approved within these spring ranges.

3. ASME Flow Capacity (SCFM Air) = [Set Pressure (psig)*1.2+14.7]* ASME Flow Rate Factor.

BULK PLANT RELIEF VALVES



UL® LISTED FOR LPG

63EGLP Series Relief Valves

Fisher™ Type 63EGLP relief valve provides superior overpressure protection for large bulk plant applications. Available in steel and stainless steel constructions for LPG and other compressed gas applications. Bringing advanced technology from the petrochemical industry, the Type 63EGLP provides precise and controlled pressure relief in an emergency situation to protect your pressure vessel while simultaneously limiting the amount of product discharged to the atmosphere.

Tight fitting UV resistant caps are standard on all constructions, along with a load-rated lifting sling to assist with lifting and installation. End connections are standard 4 in. CL300 RF bolt patterns. Fisher Type 63EGLP relief valve provides the industries most advanced

relief technologies. The accuracy and repeatability of pilot-operated pressure regulation excercises precise control during relief situations without relying on last-generation pop-style relief mechanics. The Fisher Type 63EGLP is the evolutionary leap forward in bulk plant pressure relief combining safety, durability and serviceability into one superior package.

Type 63EGLP-250 is UL listed for propane (LPG) at 250 psig / 17.2 bar. For other model types and set-point ranges, PED Category IV is also available for set points of 85 to 375 psig / 5.7 to 25.9 bar. The flow port diameter is 4.38 in. and the plug travel height is 2.0 in.

Main body gasket and studs and bolts are not included but can be ordered separately, see Instruction Manual D450321T012.

	63EGLP Series Bulk Plant Relief Valves							
TYPE	CONTAINER	SET PRESSURE		REPLACEMENT		RATE, CMM AIR		
	CONNECTION, IN.	psig	bar	PILOT TYPE	PER UL-132(1)	PED Cat. IV(2)		
63EGLP-250		250	17.2	6358EBLP-250	38,794 / 1099	N/A		
63EGLP-EB1		85 to 140	5.9 to 9.7	6358EBLP-1				
63EGLP-EB2	4 CL300 RF Flange ⁽³⁾	130 to 200	9.0 to 13.8	6358EBLP-2	N/A	11,929 to 47,164 /		
63EGLP-EB3		180 to 350	12.4 to 24.1	6358EBLP-3	N/A	338 to 1336		
63EGLP-EBH		250 to 375	17.2 to 26.0	6358EBHLP				

- 1. Capacity recorded at 20% over set pressure, UL listed for LPG. 2. Flow Rate (SCFM Air) = 121.5 * Set Pressure (psig) + 1602.
- 3. Flange Reducer 4 x 3 in. CL300 RF for 3 in. flange connections available, see Instruction Manual D450321T012.

EXTERNAL RELIEF VALVES



External Relief Valves

Used on ASME and DOT containers, all working parts of these valves are outside the container connection so they must be protected against mechanical damage.

The external relief valves use Brass as material of construction. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Protective caps are shipped with Fisher™ brand external relief valves. Replacement caps may be ordered separately (refer below).

		Small	External	Relief Valv	es		
TYPE	CONTAINER TYPE	CONTAINER	-	DISCHARGE SSURE	FLOW CAPACITY, SCFM / SCMH AIR	ACCESSORY	
		CONNECTION, IN.	psig	bar	SCFM / SCMH AIR	Pipeaway Adaptor	Protective Cap
H110-250 ⁽¹⁾		1/4 MNPT			310 / 527		P206
H125-250		1/2 MNPT	250	47.0	610 / 1036		
H150-250			250 17.2	17.2	580 / 985		
H185-250 ⁽¹⁾	40145	3/4 MNPT			2223 / 3777		P145
H185-275 ⁽¹⁾	ASME		275	19.0	2456 / 4173		P145
H110-312 ⁽¹⁾		1/4 MNPT			390 / 663] [P206
H135-312 ⁽¹⁾	1	1/2 MNPT	312	21.5	705 / 4000	P174 ⁽³⁾	
H160-312	1	3/4 MNPT]		765 / 1300		
H123 ⁽¹⁾		1/4 MNPT					
H148 ⁽¹⁾	DOT or Hydrostatic Relief	1/2 MNPT	375	25.9	000 (450 4/2)	D.4.7.4(2)	
H173 ⁽¹⁾	- Trydrostatic Nelici	3/4 MNPT			903 / 1534 ⁽²⁾	P174 ⁽³⁾	
H120-60			60	4.1	85 / 145		
H120-120	1	4/4 \$40.07	120	8.3	134 / 227	1	P206
H120-275]	1/4 MNPT	275	19.0	245 / 416	1	
H124 ⁽¹⁾	Hydrostatic Relief					1	
H144 ⁽¹⁾		1/2 MNPT	450	31.0			
H174 ⁽¹⁾	1	3/4 MNPT					

Listed under UL® Section 132.
 DOT cylinder water capacity 500 lbs / 227 kg, approved by Bureau of Explosives and CGA.
 1/2 in. FNPT.

GLOBE AND ANGLE VALVES



Globe and angle valves are widely used at bulk plants to control gas flow in the piping system, at storage tanks, on trucks and at pumps or compressors. Their body configuration permits installation in a straight section of pipe (globe body) or where it is desired to make a change in piping direction (angle body).

All units have a 1/4 in. FNPT plugged boss in the downstream side of the body. A hydrostatic relief valve (Type H124) or a vent valve (Type J402S) can be installed in this outlet.

Heavy-duty ductile iron (DI A395) valves for either LPG or Anhydrous Ammonia (NH $_3$) service. Ranging in size from 1/2 to 3 in. / DN 15 to 80, each valve has spring loaded PTFE chevron packing for an effective seal against leakage. The valves are rated for 400 psig / 27.6 bar WOG and a standard temperature rating of -20 to 160°F / -29 to 71°C.

Valve disc rotation stops as soon as the disc contacts the body seat to help minimize disc wear. Oversize ports in all units give high flow capacity.

Types N310 and N410 – Heavy-duty ductile iron valves for either LPG or Anhydrous Ammonia (NH $_3$) service. Ranging in size from 1/2 to 3 in. / DN 15 to 80 each valve has spring loaded PTFE chevron packing for sealing against leakage. Ball bearing valve disc construction on 1-1/4 in. / DN 32 and larger sizes, gives a strong connection to the stem to protect the disc under back-flow conditions.

Types N350 and N450 – Economy globe and angle valves for LPG service. With many of the construction features of the Types N310 and N410, these valves can be supplied in 1/2 and 3/4 in. / DN 15 to 80 sizes. PTFE spring-loaded packing provides an effective seal against leakage within the valve's pressure range.

	Globe and Angle Valves						
		TYPE					
SERVICE	INLET AND OUTLET CONNECTION, IN. / DN	Heavy-D	uty Version	Economy	y Version		
	,	Globe	Angle	Globe	Angle		
	1/2 FNPT	N301-04	N401-04				
	3/4 FNPT	N301-06	N401-06				
	1 FNPT	N301-08	N401-08				
LDO INIL	1-1/4 FNPT	N310-10	N410-10				
LPG and NH₃	1-1/2 FNPT	N310-12	N410-12				
	2 FNPT	N310-16	N410-16				
	3 FNPT	N310-24	N410-24				
	3 / 80 ASME Flange	N310F-24	N410F-24				
1.00	1/2 FNPT			N350-04	N450-04		
LPG	3/4 FNPT			N350-06	N450-06		

BACK CHECK VALVES





G100 SERIES TYPE G105

Back check valves allow flow in only one direction and are normally closed. They are installed in liquid filling connections on stationary storage tanks, bobtail delivery trucks and liquid transfer lines.

G100 Series

G100 Series – used mainly in tank inlet connections, are offered in two styles of seat construction: metal-to-metal or soft seat. The soft seated construction is for the filling connection on bobtail delivery trucks. Because the valve gives tight shutoff, piping on the bobtail can be depressurized for maintenance or repair without leakage. The G100 Series has a 250 psi / 17.2 bar rating and bubbles at 0.25 psid / 17 mbar d. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Type G109 – was designed for in-line service at bulk plants with FNPT connections for easy installations.

	G100 Series Back Check Valves							
SEAT CONSTRUCTION	CONTAINER OR INLET CONNECTION,	OUTLET	PROPANE FLOW CAPACITY AT 10 psig / 0.69 bar DIFFERENTIAL PRESSURE		TY			
CONSTRUCTION	IN.	CONNECTION, IN.	GPM	l/min	Brass	Steel		
	3/4 MNPT	3/4 FNPT	21	79.5	G100			
	1-1/4 MNPT	1-1/4 FNPT	55	208	G101			
Metal-to-Metal	2 MNPT	2 FNPT	150	568	G102	G112		
	2 FNPT	2 FNPT	150	568	G109			
	3 MNPT	3 FNPT	250	946		G104		
	2 MNPT	2 MNPT and 1-1/4 FNPT	137.5	520		G105		
Soft Seat	3 FNPT	2 MNPT	254	961		G106		
	3 MNPT	3 MNPT and 2 FNPT	254	961		G107		



TYPE G201

Specifications

Types G200 and G201

Pressure Rating: 400 psig / 28 bar WOG Temperature Rating: -20 to 160°F / -29 to 71°C

Body: Ductile iron

Internal Parts: Plated steel or stainless steel

Seat Disc: Synthetic rubber with metal-to-metal backup

G200 Series

G200 Series – back check valves are specifically intended for heavy-duty in-line service at the bulk plant's transfer area. The valves are suitable for LPG or Anhydrous Ammonia (NH_3) service.

Flow moves the spring loaded poppet to the open position as soon as pressure differential is created. When flow stops, the poppet closes. A soft seat construction gives tight shutoff so that piping can be blown down for maintenance.

With a body designed to reduce flow resistance, flow capacity is high. The 2 in. / DN 50 body size gives 350 GPM / 1325 l/min LPG at 10 psig / 0.69 bar differential pressure.

The G200 Series is built to stay on the job with all internal parts of plated steel or stainless steel.

Type G201 – has a built-in flow indicator mechanism, (see illustration), which can be used to replace sight flow indicators.

G200 Series Back Check Valves							
			NE FLOW	TY	TYPE		
SEAT CONTAINER OR INLET AND OUTLET CONNECTION,	CAPACITY AT 10 psig / 0.69 bar DIFFERENTIAL PRESSURE		Ductile Iron				
CONSTRUCTION	IN.	GPM	GPM I/min No Flow Indicator		Flow Indicator		
	1-1/4 FNPT	190	719	G200-10	G201-10		
Soft Seat	2 FNPT	350	1325	G200-16	G201-16		
	3 FNPT	800	3028	G200-24	G201-24		

Hose End, Filler and Liquid Transfer Valves

Hose End Valves

Type N480 - hose end valves are intended for guick opening and closing during bobtail truck deliveries of LPG or Anhydrous Ammonia (NH₃). The unique design prevents opening unless attached to a 1-3/4 in. ACME filler valve at the tank. The 45° angle body configuration with 1 in. NPT inlet gives maximum handling ease during the transfer operation. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

For increased safety, the Type N480 is designed to stay closed unless connected even with the operating lever in the open position. This prevents accidental opening during hose reel-up or at other times. The fluted coupler permits quick attachment to the filler valve and the operating lever is easy to reach for opening or closing.

Type M570 - filler hose adaptor, included with the Type N480, permits the hose end valve to be removed from filler valves that fail to close. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Type N481 - hose end valves without the Type M570 filler hose adaptor can be supplied for Anhydrous Ammonia (NH₃) applications. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Caution: Other brands of filler hose adaptors should not be used with the Type N480 because they could allow accidental opening of the valve while it is being handled.

Large Filler Valves

Emerson™ offers large filler valves with heavy-duty construction throughout for rapid filling of ASME tanks or trucks. Thick-walled bodies, formed seat retainers and generous wrenching flats minimize damage to internal parts. The flow channel design offers low resistance-to-flow for increased pump and hose service. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Types D138 and D139 - offer single back check valves for use with either a supplementary G Series back check valve or a manual shutoff valve.

Types D140 and D141 - provide a two-piece design with both an upper and lower back check. The bubble tight upper back check has a resilient seat for maximum service life. A metal-to-metal lower back check protects against loss of product in case of an accident and permits removal of the upper body with the tank under pressure.

Liquid Transfer Valves

The Type N456 attaches to a liquid withdrawal valve or similar constructions. The withdrawal valve is activated by means of a special adaptor on the Type N456 that opens the valve the correct distance to permit liquid transfer from the customer tank to the storage tank. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Type N456 - Special 3/4 in. MNPT inlet x 1-3/4 in. male ACME outlet. Consists of a Type N450-06 angle valve, a Type M455 inlet adaptor, a Type M215 outlet adaptor and a cap and chain to keep dirt from entering the valve when it is not in use.



TYPE D140 OR D141

TYPE D138 OR D139

	Large Filler Valves							
TYPE	CONNECTIONS CONTAINER MNPT x LINE ACME	BACK CHECK STYLE	FILLING CAPACITY GPM / I/min PROPANE AT 10 psi / 0.69 bar DIFFERENTIAL					
D138	2 x 2-1/4 in	Single	105 / 397					
D140	2 X 2-1/4 III.	Double	100 / 379					
D139	3 x 3-1/4 in.	Single	275 / 1041					
D141	3 X 3-1/4 III.	Double	225 / 852					



TYPE M455



Type M455 - Special 3/4 in. MNPT inlet x 3/4 in. MNPT outlet. Opens the tank's liquid withdrawal valve the correct distance to permit transfer operations. A Nylon (PA) gasket is supplied for a tight seal with the withdrawal valve.

Types N456 and M455 should be used with Types F171* and F210* Liquid Withdrawal Valves.

^{*}Types F171 and F210 valves are obsolete Fisher™ products. Kindly contact your LPG Equipment Distributor for a suitable replacement.

BYPASS AND BACKPRESSURE VALVES

Bypass Valves for Large Pumps

Designed for bypass on 2 to 4 in. size pumps, the N100 Series is widely used on both LPG and Anhydrous Ammonia (NH $_3$) applications. The throttling action of the N100 Series allows only surplus pump discharge to be returned to the tank.

A venturi flow passage gives a boost effect, permitting a greater valve opening for increased flow at the lower pressure build-ups when bypassing full pump output. These features help to give rapid, stable liquid transfer and reduce dangerous pressure pulsations. The valves contain only one moving part - the piston style inner valve.

An external sensing line is not required because tank pressure registers through a hole in the inner valve. Complete field servicing can be made without removing the valve from the piping.

All N100 Series bodies have a 1/4 in. FNPT tapped and plugged boss on the side inlet for either a pressure gauge or a hydrostatic relief valve and have a temperature rating of -20 to 160°F / -29 to 71°C.



TYPE	DUMP CIZE IN	DODY CIZE IN	PSID S	PSID SETTING		PSID RANGE	
TTPE	PUMP SIZE, IN.	BODY SIZE, IN.	psig	bar	psig	bar	
N100A-08-1 ⁽¹⁾	2	4 ENDT	50	3.4	25 to 75	1.7 to 5.2	
N100A-08-2 ⁽¹⁾		1 FNPT	115	7.9	50 to 150	3.4 to 10.3	
N100A-10-1 ⁽¹⁾		1-1/4 FNPT	50	3.4	25 to 75	1.7 to 5.2	
N100A-10-2 ⁽¹⁾	0.000		115	7.9	50 to 150	3.4 to 10.3	
N100A-12-1 ⁽¹⁾	2 or 3	4.4/0.5NDT	50	3.4	25 to 75	1.7 to 5.2	
N100A-12-2 ⁽¹⁾		1-1/2 FNPT	115	7.9	50 to 150	3.4 to 10.3	
N100-16-1		2 FNPT	50	3.4	25 to 75	1.7 to 5.2	
N100-16-2	- 4	2 FNPT	115	7.9	50 to 150	3.4 to 10.	

BYPASS AND BACKPRESSURE VALVES

Bypass Valves for Small Pumps

N110 Series – is intended for bypass service on the smaller pumps (5 to 40 GPM / 18.9 to 151 l/min) used on stationary tanks or delivery trucks. Suitable for LPG or Anhydrous Ammonia (NH₃) installations, the valve has an internal sensing orifice and does not require an external sensing line. Standard product temperature rating is -20 to 160°F / -29 to 71°C. A vent opening of the sensing orifice channel allows trapped vapor to escape, eliminating any vapor in the system when the pump is started. The compact size of the N110 Series (less than 6.5 in. / 165 mm overall) permits installation in limited space. A 1/4 in. FNPT tapped and plugged boss on the inlet side of the body can be used to install a hydrostatic relief valve or a pressure gauge. The valve does not have to be removed from the line for servicing; all internal parts can be reached by unscrewing the union nut.



	Small Pump Bypass Valves							
TVDF	PUMPING	CAPACITY	DODY SIZE IN	PSID SETT		PSID RANGE		
TYPE	GPM	l/min	BODY SIZE, IN.	psig	bar	psig	bar	
N110-06-1	5 to 20	18.9 to 75.7	3/4 FNPT	50	3.4	25 to 75	1.7 to 5.2	
N110-08-1	20 to 40	75.7 to 151	1 FNPT	_ 50	3.4			
N110-06-2	5 to 20	18.9 to 75.7	3/4 FNPT	100	6.9	75 to 150	5.2 to 10.3	
N110-08-2	20 to 40	75.7 to 151	1 FNPT	100	6.9			

Backpressure Valves

These valves are soft seated, holding a differential backpressure on liquid meters. A N120 Series backpressure valve is installed after the meter and it holds backpressure on the meter until vapor is forced back to the tank through the vapor eliminator. Standard product temperature rating is -20 to 160°F / -29 to 71°C. In this way vapor cannot form within the meter during liquid delivery.

Intended for smaller pumps, N120 Series are ideal on such applications as cylinder filling installations. All units have a 1/4 in. FNPT tapped and plugged boss on the inlet side of body and can be used for both LPG and Anhydrous Ammonia (NH $_{\rm 3}$) service. The N120 Series has a 1/4 in. FNPT connection in the closing cap for attachment of an external sensing line from the tank vapor space or vapor eliminator.



Backpressure Valves						
Dackpressure valves						
TYPE	LIQUID METER SIZE,	BODY SIZE, IN.	PSID F	SID RANGE		
III-	IN.	DOD'I SIZE, IN.	psig bar		psig	bar
N120-06-3	3/4 or 1	3/4 FNPT	12	0.00	40 4= 20	0.69 to 1.4
N120-08-3		1 FNPT	12	0.83	10 to 20	0.69 (0 1.4

LIQUID LEVEL INDICATORS





FisherTM brand rotary gauges can be used on stationary or mobile tanks to visually indicate the amount of LPG or Anhydrous Ammonia (NH $_3$) in the container. They are also used in filling the tank to the proper liquid level. On mobile applications and some large stationary storage tanks, hangers are recommended to support the horizontal length of the dip tube.

The gauge is operated by opening the small bleed orifice when the tube is in the vapor space of the tank. Moving the pointer on the dial causes the end of the tube to move until it contacts liquid in the container. At that point, discharge from the bleed orifice turns from vapor to liquid and the rotary gauge dial gives the volume percentage of liquid in the tank.

Type J-31 – consists of heavy duty gauges that minimize vibration effects (swaying, bouncing) by a long (68 in. / 1.73 m) stem tube extension. Gauges fit 1 in. / 25.4 mm coupling container connections.

All gauges have stem and dip tubes with an extra large inside diameter. This assures that the correct liquid level can be obtained quickly.

A Nylon (PA) packing sleeve and a friction ring for the pointer indicator gives smooth rotation and long service life. Steel and stainless steel materials resist rust or corrosion. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Rotary Gauges				
LENGTH, IN. / mm	2 2 31200		NH₃ DIAL >1200 GALLON	NO DIAL >1200 GALLON
68 / 1727	3 / 1727 Type J31L-1 Type J31S-1		Type J31A-1	Type J31X-1
69 to 92 / 1753 to 2337	Type 31 -2	Type J31S-2	Type J31A-2	Type J31X-2
93 to 108 / 2362 to 2743	Type J31L-3	Type J31S-3	Type J31A-3	
109 to 140 / 2769 to 3556	Ivne 1311 - 31 Ivne 131S-31		Type J31A-3L	Type J31X-3L
Dial Only	Dial Only Type P323 Type P322 Type		Type P324	



Liquid Level Vent Valves

Type J415 – with steel construction, can be used on either LPG or Anhydrous Ammonia (NH₃) service. They can also be installed on large bulk storage tanks at the maximum filling level. Standard valve comes with a 3/4 in. MNPT container connection and two 1/4 in. FNPT side outlets. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Type J415-1 – features the addition of a Type J402S liquid level vent valve and Type J542 (0 to 400 psig / 0 to 27.6 bar) pressure gauge installed.



Vent Valves and Fixed Maximum Liquid Level Gauges

Used in all kinds of LPG containers to give positive visual indication of liquid reaching the maximum allowable liquid level. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Types J402S and J403S do not have dip tubes and must be used in containers where a dip tube has been welded in. Stainless steel constructions are for corrosive service.



Container Thermometers

Suitable for any size tank in LPG and Anhydrous Ammonia (NH $_3$) service, the 2 in. / 51 mm diameter dial reads from -40 to 120°F / -40 to 49°C. They are dustproof and waterproof. Specify J700 Series for a 1/2 in. MNPT by a 4 in. / 102 mm length or Type J701 for a 1/2 in. MNPT by 6 in. / 152 mm length.

COUPLINGS AND ADAPTORS





These couplings allow connection of ACME threads to NPT. One side is 1-1/4 through 4-1/4 in. female ACME. The other side is 3/8 through 3 in. NPT. Available in brass or steel. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Female ACME Filler Couplings					
FEMALE	OTHER	LENGTH.		TYPE	
ACME, IN.	CONNECTION, IN.	IN. / mm		Brass	Steel
	1/2 MNPT	3 / 76	1	M110	
	3/4 MNPT	3 / 76	1	M111	M631-6
1-3/4	3/4 IVINE I	6-1/8 / 156	2		M635-6
	1 MNPT	3 / 76	1	M112	M631-8
	TIVINET	7 / 178	2		M635-8
2-1/4	1-1/4 MNPT	3-1/4 / 83	3	M120 ⁽¹⁾	M121
3-1/4	1-1/4 FNPT	1-1/2 / 38	4	M442	
3-1/4	2 MNPT	3-3/4 / 95	3	M130 ⁽¹⁾	M133
4-1/4	3 MNPT	4-1/2 / 114	3	M664-24	M634-24
1. Steel Nipple	e				



Female ACME Vapor Return Couplings

Vapor return couplings are available with 1-1/4 through 2-1/4 in. female ACME threads on one side and 3/8 through 1-1/4 in. male NPT threads on the other. Brass or steel construction. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Fe	Female ACME Vapor Return Couplings						
FEMALE MALE NPT, LENGTH,				TYPE			
ACME, IN.	IN.	IN. / mm		Brass			
1-3/4	1	3-1/4 / 83	5	M151			
2-1/4	1-1/4	3-3/8 / 86	7	M160			



Type M390 POL Filler Coupling

6 in. / 152 mm male POL to 1/4 in. NPT male filler coupling. Brass construction. Replacement O-rings are available. Standard product temperature rating is -20 to 160°F / -29 to 71°C .

POL Filler Coupling						
TYPE MALE POL MALE NPT, LENGTH						
Brass	WALE POL	IN. IN. / mm	IN. / mm			
M390 ⁽¹⁾ Soft Nose 1/4 6 / 1:						
1. Replacement O-ring T12945T0012.						



TYPE M612

O-rings for Male Adaptors

The 2-1/4 and 3-1/4 in. male adaptors listed above can be supplied with replacement O-rings instead of the conventional washer type of gasket. O-rings give a tighter seal in most cases than the washers. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

Adaptor Caps					
TY	PE	FEMALE ACME,	MALE ACME,		
Brass Steel		IN.	IN.		
M611		2-1/4	1-3/4		
M612	M622	3-1/4	1-3/4		
M613	M623	4-1/4	3-1/4		

COUPLINGS AND ADAPTORS



Single-Piece POL Adaptors

These single-piece brass POL adaptors are available in four styles. Connections are 1/4 through 3/4 in. NPT, 3/8 in. flare and 1/2 in. NPT flare. Brass construction. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

S	Single Piece POL Adaptors					
TYPE	POL	OTHER				
Brass	CONNECTION	CONNECTION, IN.				
M286	Female POL	1/2 MNPT	2			
M287	Pernale POL	3/4 MNPT	2			
M357	Male POL	1/2 FNPT	3			





TYPE M570

Filler Hose Adaptor

Intended for the outlet of a bobtail truck filling hose, the Type M570 enables the filling hose to be removed if the filler valve fails to close. An integral back check in the adaptor prevents gas from escaping in the event of a failure of the filler valve. The filler valve should be repaired as soon as possible and the Type M570 removed from the filler valve. Standard product temperature rating is -20 to 160°F / -29 to 71°C.

	Filler Hose Adaptor						
TYPE	FILLER VALVE CONNECTION, IN.	HOSE END VALVE CONNECTION, IN.	BODY MATERIAL				
M570	1-3/4 Female ACME	1-3/4 Male ACME	Brass				



Filler Valve Adaptor

Type M450A – allows methanol to be added through conventional designed double back check filler valves with a 1-3/4 in. male ACME filler connection and 3/4 in. FNPT outlet. Standard product temperature rating is -20 to 160°F / -29 to 71°C.



TYPE M178

Seals and Plugs

ACME plugs of various sizes and materials are used in female ACME threads to keep debris out of the piping systems.

Seals and Plugs				
DUST SEAL	PLUG	BODY SIZE, IN.		
Type M178 plastic		1-1/4 Male ACME		
Type M179 plastic		1-3/4 Male ACME		
Type M180 plastic		2-1/4 Male ACME		
Type M181 plastic		3-1/4 Male ACME		
	Type M535-34 steel	4-1/4 Male ACME		

COUPLINGS AND ADAPTORS



Female ACME Caps

ACME caps of various sizes and materials are used on male ACME threads to keep debris out of the piping systems. Small sizes are designed for hand tightening. Standard product temperature rating is -20 to 160°F / -29 to 71°C .

Larger sizes are intended to be either tightened by hand or with the use of the Type P120B spanner wrench.

SIZE FEMALE ACME, IN.		TYPE	
SIZE FEMALE ACME, IN.	Plastic ⁽¹⁾	Brass	Steel
1-1/4	M108		
1-3/4	M109	M229 ⁽²⁾	M219 ⁽²⁾
2-1/4		M431	M432
3-1/4		M441	M443
4-1/4		M605-34	M625-34

⁷⁹

MISCELLANEOUS EQUIPMENT

Clamp Hose Couplings

Type M3162 - Clamp Hose Couplings, for use on LPG or Anhydrous Ammonia (NH₃), are designed to be compact yet rugged for long, dependable service. A small boss on the clamp portion of the coupling keeps the bolt from turning when installing, making installation much easier. Each ductile iron unit receives a coat of electro deposition paint. Larger size clamp hose couplings can be furnished with a swivel nut female ACME outlet that reduces weight and space. Standard product temperature rating is -20 to 160°F / -29 to 71°C.







TYPE M3162-32B (SWIVEL NUT OUTLET)

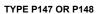
	Clamp Hose Couplings					
TYPE ⁽²⁾	COUPLING STYLE	BODY SIZE, IN.	HOSE I.D., IN. / mm	APPROXIMATE HOSE O.D., IN. / mm		
M3162-08		1/2 MNPT	1/2 / 13	15/16 / 24		
M3162-12		3/4 MNPT	3/4 / 19	1-1/4 / 32		
M3162-16		1 MNPT	1 / 25	1-1/2 / 38		
M3162-20	Clamp Type, Standard Outlet	1-1/4 MNPT	1-1/4 / 32	2 / 51		
M3162-24		1-1/2 MNPT	1-1/2 / 38	2-1/4 / 57		
M3162-32		2 MNPT	2 / 51	2-3/4 / 70		
M3162-48		3 MNPT	3 / 76	3-3/4 / 95		
M3162-12S ⁽³⁾	Clamp Type,	1-3/4 Female ACME	3/4 / 19	1-1/4 / 32		
M3162-32S ⁽³⁾	Swivel Nut	0.4/4.5	0.754	0.0/4./70		
M3162-32B ⁽¹⁾	Outlet	3-1/4 Female ACME	2 / 51	2-3/4 / 70		
M3162-48B	Clamp Type, Swivel Nut Outlet	4-1/4 Female ACME	3 / 76	3-3/4 / 95		
M3162-48S	Clamp Type, Swivel Nut Outlet	4-1/4 Female ACME	3 / 76	3-3/4 / 95		

^{1.} Has a brass swivel nut with steel or ductile iron nipple. Do not use with Anhydrous Ammonia (NH₃).

Ring and Chain Assemblies

Ring and chain assemblies prevent loss of caps and seals. Available for 1-1/4 in. ACME caps or dust seals.







TYPE P167

Ring and Chain Assemblies					
TYPE	FOR CAP OR DUST	FOR FISHER™ TYPE			
ITPE	SEAL SIZE, IN.	Сар	Dust Seal		
P147	1-1/4 ACME	M108	M178		
P147 ⁽¹⁾	4.0/4.4.0ME	M109 or M219			
P148 ⁽²⁾	1-3/4 ACME	M109	M178		
P148	2.4/4.4 CME		M180		
P167	2-1/4 ACME	M431 or M432			
P183	3-1/4 ACME		M181		
P167	3-1/4 ACME	M441 or M443			
P167	4-1/4 ACME	M605-34, M625-34M and M535-34			

Maximum allowable working pressure 350 psig / 24.1 bar.
 Has a steel swivel nut with ductile iron nipple.

Type P147 fits 3/4 in. pipe size.
 Type P148 fits 1-1/4 in. pipe size.

MISCELLANEOUS EQUIPMENT



TYPE P120B

Spanner Wrench

Used to tighten and loosen large female ACME caps and couplings in the 2-1/4, 3-1/4 and 4-1/4 in. sizes.

Spanner Wrench		
TYPE OVERALL LENGTH, CONSTRUCTION IN. / mm MATERIAL		
P120B	18 / 457	Aluminum



TYPE P298

Types P206, P297 and P298 protective caps are used to keep moisture and foreign materials from entering the valves. These units are mounted outside the protective hood on the tank.

Relief Valve Protective Cap		
VALVE TYPE	PROTECTIVE CAP TYPE	
H110		
H125		
H150		
H148		
H173	P206	
H123	1 200	
H120		
H124		
H144		
H174		
H722	P297	
H733	P298	
H284		
H5114	P299	
H5118		



TYPE P520L

Adjustable Orifice Reamer

The orifice reamer allows users to clean or ream out orifices of different sizes without changing tools. It allows for a range from 0.125 in. to size no. 52 (0.0635 in.).

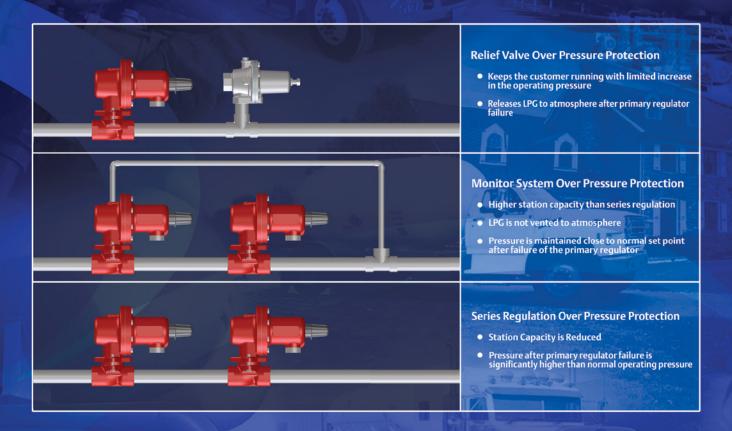


Cylinder Filling Valve

Type N201 – fills DOT cylinders by weight and stops the gas supply when specified fill weight is reached. Operated by air pressure, it is designed for beam type scales and requires no electrical or mechanical power.

The assembly comes completely piped up and includes special parts that allow the slide weight on the scale to move to zero. A red button appears in the indicator on top of the Type N201 each time a cylinder is filled to the desired weight. Standard product temperature rating is -20 to 160°F / -29 to 71°C .

DOT Compliance on Jurisdictional Systems? Fisher is Here to Help.



NFPA 58 Compliant? Fisher® is Here to Help.

Liquid Outlet Lines

Liquid Inlet Lines



Liquid Inlet and Outlet Lines

Prior Installation	Compliance Options		
Excess flow valve in tank with shutoff valve in piping	Replace excess Install Type N551 ESV Install G200 Series back check flow valve with as close as practical valve as close as practical to internal valve to shutoff valve shutoff valve (inlet only)		
2		4	4
TYPE F1 90 EXCESS FLOW VALVE	TYPE C427 INTERNAL VALVE	TYPE F190 EXCESS FLOW VALVE	EXCESS FLOW VALUE
TYPE N310 SHUTOFF VALVE		YYE NSSI BUERCBUCY SHUTOFF VALVE	TYPE G201 XCHECK VALVE
		TYPE	ВА

Conversion Factors

SI Conversion Factors

ASME Conversion Factors

Multiply	Ву	To Obtain	Multiply	Ву	To Obtain
Length and Area			Length and Area		
Millimeters	0.0394	Inches	Inches	25.4	Millimeters
Meters	3.2808	Feet	Feet	0.3048	Meters
Sq. Centimeters	0.155	Sg. Inches	Sq. Inches	6.4516	Sq. Centimeters
Sq. Meters	10.764	Sq. Feet	Sq. Feet	0.0929	Sq. Meters
Volume and Mass			Volume and Mass		
Cubic Meters	35.315	Cubic Feet	Cubic Feet	0.0283	Cubic Meters
Liters	0.0353	Cubic Feet	Cubic Feet	28.316	Liters
Gallons	0.1337	Cubic Feet	Cubic Feet	7.481	Gallons
Cubic cm.	0.061	Cubic Inches	Cubic Inches	16.387	Cubic cm.
Liters	2.114	Pints (US)	Pints (US)	0.473	Liters
Liters	0.2642	Gallons (ÚS)	Gallons (ÚS)	3.785	Liters
Kilograms	2.2046	Pounds	Pounds `	0.4535	Kilograms
Tonnes (metric)	1.1024	Tons (US)	Tons (US)	0.9071	Tonnes (metric)
Pressure and Flow Rate	е		Pressure and Flow Ra	ate	
Millibars	0.4018	Inches WC	Inches w.c.	2.488	Millibars
Ounces/sq. in.	1.733	Inches WC	Inches w.c.	0.577	Ounces/sq. in.
Inches w.c.	0.0361	Pounds/sq. in.	Pounds/sq. in.	27.71	Inches WC
Bars	14.50	Pounds/sq. in.	Pounds/sq. in.	0.0689	Bars
Kilopascals	0.1450	Pounds/sq. in.	Pounds/sq. in.	6.895	Kilopascals
Kilograms/sq. cm.	14.222	Pounds/sq. in.	Pounds/sq. in.	0.0703	Kilograms/sq. cm.
Pounds/sq. in.	0.068	Atmospheres	Atmospheres	14.696	Pounds/sq. in.
Liters/hr.	0.0353	Cubic Feet/hr.	Cubic Feet/hr.	28.316	Liters/hr.
Cubic Meters/hr	4.403	Gallons/min.	Gallons/min.	0.2271	Cubic Meters/hr.
Miscellaneous			Miscellaneous		
Kilojoules	0.9478	BTU	BTU	1.055	Kilojoules
Calories, kg	3.968	BTU	BTU	0.252	Calories, kg
Watts	3.414	BTU per hour	BTU per hour	0.293	Watts
BTU	0.00001	Therms	Therms	100.000	BTU
Megajoules	0.00948	Therms	Therms	105.5	Megajoules
- 3-9	******				- 3-1

Abbreviations

ASME	American Society of Mechanical Engineers	psi	Pounds per Square Inch
BTU per hour	British Thermal Units per Hour	psid	Pounds per Square Inch, Differential Pressure
CFH	Cubic Feet per Hour	psig	Pounds per Square Inch Gauge
CGA	Compressed Gas Association	SAE	Society of Automotive Engineers
CSST	Corrugated Stainless Steel Tubing	SCFH	Standard Cubic Feet per Hour
DBC	Diameter Bolt Circle	SCFM	Standard Cubic Feet per Minute
DOT	Department of Transportation	SCMH	Standard Cubic Meter per Hour
FNPT	Female National Pipe Thread	PTFE	Polytetrafluoroethylene
FPOL	Female POL Portion of CGA 510 Fitting	UL	Underwriters Laboratories Inc.
	(See POL)	UNC	Unified National Course
GPH	Gallons per Hour		(Defines a thread form/shape)
GPM	Gallons per Minute	UNF LH	Unified National Fine - Left Hand
MNPT	Male National Pipe Thread		(Defines a thread form/shape)
MPOL	Male POL Portion of CGA 510 Fitting (See POL)	WC	Water Column
NFPA	National Fire Protection Association	WOG	Water Oil and Gas
NPT	National Pipe Thread		
POL	Generic Term For A Compressed Gas		
	Association Fitting #510		

Commercial/Industrial High-Pressure Regulators

Type No.	Description
1098-F2-6351V-2	2 in. CL150 RF Steel Low Pressure Regulator; 5 to 35 psig / 0.34 to 2.4 bar; Type 6351V-2 pilot w/ Viton®; Max Outlet 75 psig / 5.2 bar
1098-F21	2 in. CL300 RF Steel Low Pressure Regulator; 2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 75 psig / 5.2 bar
1098-F22	2 in. CL300 RF Steel Low Pressure Regulator; 0.21 to 2.8 bar; Max Outlet 75 psig / 5.2 bar
1098-F23	2 in. CL300 RF Steel Low Pressure Regulator;
1098-F3-6351V-2	35 to 75 psig / 2.4 to 5.2 bar; Max Outlet 75 psig / 5.2 bar 3 in. CL150 RF Steel Low Pressure Regulator; 5 to 35 psig / 0.34 to 2.4 bar; Type 6351V-2 pilot w/ Viton®; Max Outlet 75 psig / 5.2 bar
1098-F31	3 in. CL300 RF Steel Low Pressure Regulator;
1098-F32	2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 75 psig / 5.2 bar 3 in. CL300 RF Steel Low Pressure Regulator;
1098-F33	3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 75 psig / 5.2 bar 3 in. CL300 RF Steel Low Pressure Regulator;
1098-F41	35 to 75 psig / 2.4 to 5.2 bar; Max Outlet 75 psig / 5.2 bar 4 in. CL300 RF Steel Low Pressure Regulator;
	2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 75 psig / 5.2 bar 4 in. CL300 RF Steel Low Pressure Regulator;
1098-F42	3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 75 psig / 5.2 bar 4 in. CL300 RF Steel Low Pressure Regulator;
1098-F43	35 to 75 psig / 2.4 to 5.2 bar; Max Outlet 75 psig / 5.2 bar
1098-L2-6351V-2	2 in. NPT Steel Low Pressure Regulator; 5 to 35 psig / 0.34 to 2.4 bar; Type 6351V-2 pilot w/ Viton®; Max Outlet 75 psig / 5.2 bar
1098H-F21	2 in. CL300 RF Steel; Low Pressure Regulator; 2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 300 psig / 20.7 bar
1098H-F22	2 in. CL300 RF Steel; Low Pressure Regulator; 3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 300 psig / 20.7 bar
1098H-F23	2 in. CL300 RF Steel; High Pressure Regulator; 35 to 125 psig / 2.4 to 8.6 bar; Max Outlet 300 psig / 20.7 bar
1098H-F31	3 in. CL300 RF Steel; Low Pressure Regulator; 2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 300 psig / 20.7 bar
1098H-F32	3 in. CL300 RF Steel; Low Pressure Regulator; 3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 300 psig / 20.7 bar
1098H-F33	3 in. CL300 RF Steel; Low Pressure Regulator; 35 to 125 psig / 2.4 to 8.6 bar; Max Outlet 300 psig / 20.7 bar
1098H-F41	4 in. CL300 RF Steel; Low Pressure Regulator; 2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 300 psig / 20.7 bar
1098H-F42	4 in. CL300 RF Steel; Low Pressure Regulator; 3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 300 psig / 20.7 bar
1098H-F43	4 in. CL300 RF Steel; Low Pressure Regulator; 35 to 125 psig / 2.4 to 8.6 bar; Max Outlet 300 psig / 20.7 bar
1098H-L21	2 in. NPT Cast Iron High Pressure Regulator;
1098H-L22	2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 300 psig / 20.7 bar 2 in. NPT Cast Iron High Pressure Regulator;
1098H-L23	3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 300 psig / 20.7 bar 2 in. NPT Cast Iron High Pressure Regulator;
1098-L21	35 to 125 psig / 2.4 to 8.6 bar; Max Outlet 300 psig / 20.7 bar 2 in. NPT Cast Iron Low Pressure Regulator;
1098-L22	2 to 10 psig / 0.14 to 0.69 bar; Max Outlet 75 psig / 5.2 bar 2 in. NPT Cast Iron Low Pressure Regulator;
	3 to 40 psig / 0.21 to 2.8 bar; Max Outlet 75 psig / 5.2 bar 2 in. NPT Cast Iron Low Pressure Regulator; 35 to
1098-L23	75 psig / 2.4 to 5.2 bar; Max Outlet 75 psig / 5.2 bar 1/4 in. FNPT Brass; High Pressure Regulator;
1301F-1	10 to 75 psi / 0.69 to 5.2 bar 1/4 in. FNPT Brass; High Pressure Regulator;
1301F-2	50 to 150 psi / 3.4 to 10.3 bar 1/4 in. FNPT Brass; High Pressure Regulator;
1301F-3	100 to 225 psi / 6.9 to 15.5 bar 1/4 in. FNPT Brass; High Pressure Regulator;
1301G-101	200 to 500 psi / 13.8 to 34.5 bar
627-117	1 in. FNPT Ductile Iron; High Pressure Regulator with Ductile Iron Casing; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627-122	1 in. FNPT Ductile Iron; High Pressure Regulator with Ductile Iron Casing; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar

Type No.	Description
	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/4 in. port;
627-409	5 to 20 psi / 0.34 to 1.4 bar
627-414	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627-415	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-416	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-418	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627-419	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-420	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-492	1 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627-493	1 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627-494	1 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-495	1 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-496	1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627-497	1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627-498	1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-499	1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-572	2 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627-573	2 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627-574	2 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-575	2 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-576	2 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627-577	2 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627-578	2 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-579	2 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-5810	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar; UL Listed
627-5810V	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar; UL Listed with Fluorocarbon (FKM) Trim
627-6010	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar with Nylon (PA) Disc
627-6210	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar; UL Listed
627-6210V	3/4 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar; UL Listed with Fluorocarbon (FKM) Trim
627-741	3/4 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627-742	3/4 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627-743	3/4 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627-744	3/4 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627-745	3/4 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar

627-746 3/4 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-747 3/4 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-748 3/4 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-7410 1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.3 4 to 1.4 bar UL Listed with Elrorcarbon (FKM) trim 627-7710V 1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar UL sted with Elrorcarbon (FKM) trim 627-841 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 40 psi / 1 to 2.8 bar 627-842 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 40 psi / 1 to 2.8 bar 627-843 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 7 to 15 to 90 psi / 4.8 to 10.3 bar 627-844 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 3.4 to 1.4 bar 627-845 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 627-846 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 627-847 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.3 to 1.4 bar 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 1 to 2.8 bar 627-941 2 in. FNP	Type No.	Description
627-747 3/4 in. FNPT WCC, High Pressure Regulator; 1/2 in. port; 627-748 3/4 in. FNPT WCC, High Pressure Regulator; 1/2 in. port; 627-748 3/4 in. FNPT WCC, High Pressure Regulator; 1/2 in. port; 627-7710 1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar UL Listed 627-7710V 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar UL Listed with Fluorocarbon (FKM) trim 627-841 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-842 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-843 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 80 psi / 2.4 to 5.5 bar 627-844 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-845 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-846 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 40 psi / WC; High Pressure Regulator; 1/2 in. port; 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-941 <td>627-746</td> <td></td>	627-746	
70 to 150 psi / A.8 to 10.3 bar 627-7710 1 in. FNPT Ductile Iron; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar UL Listed 627-7710V 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar UL Listed with Fluorocarbon (FKM) trim 627-841 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-842 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-843 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-844 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-845 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-846 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-847 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-847 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-941 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 20 psi / 0.34 to 1.4 bar 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-945 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 5 to 5 bar 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40	627-747	3/4 in. FNPT WCC; High Pressure Regulator; 1/2 in. port;
5 to 20 psi / 0.34 to 1.4 bar UL Listed 627-7710V 5 to 20 psi / 0.34 to 1.4 bar UL Listed with Fluorocarbon (FKM) trim 5 to 20 psi / 0.34 to 1.4 bar UL Listed with Fluorocarbon (FKM) trim 627-841 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-842 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 10 2.8 bar 627-843 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-844 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 1.0 3 bar 627-845 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-846 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-847 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 2.4 to 5.5 bar 627-941 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-945 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-947 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-947 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 50 psi / 4.8 to 10.3 bar 627H-98 1 in. FNPT WCC; High Pressure Menitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to	627-748	
5 to 20 psi / 0.34 to 1.4 bar UL Listed with Fluorocarbon (FKM) trim 627-841 1 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-842 1 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-843 1 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-844 1 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-845 1 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-846 1 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-847 1 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-848 1 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 80 psi / 2.4 to 5.5 bar 627-848 1 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 1.3 bar 627-941 2 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-942 2 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-943 2 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-944 2 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-944 2 in FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-945 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-946 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-947 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-948 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 50 psi / 0.34 to 1.5 bar 627-947 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 50 psi / 0.8 to 5.5 bar 627-948 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 50 psi / 0.8 to 5.5 bar 627-947 2 in FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 50 psi / 0.8 to 5.5 bar 627-948 1 in FNPT WCC; High Pressure Meni	627-7710	
5 to 20 psi / 0.34 to 1.4 bar 627-842	627-7710V	
15 to 40 psi / 1 to 2.8 bar 1 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-844 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-847 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-941 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-945 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-948 627-948 627-948 627-949 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 627-949 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-949 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-949 3 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 7 to 10 psi / 4.8 to 10.3 bar 627-949 3 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-949 3 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 62	627-841	5 to 20 psi / 0.34 to 1.4 bar
627-844 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-846 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-846 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-847 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-848 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-941 2in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-942 2in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-943 2in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-944 2in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-944 2in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-944 2in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-945 2in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 627-946 2in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-947 2in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 80 psi / 2.4 to 5.5 bar 627-948 2in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 2in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 10.3 bar 627-948 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 10.3 bar 627-949 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 10.3 bar 627-949 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 10.3 bar 627-949 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 10.3 bar 627-949 1in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-940 1in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 10 to 40 psi / 1 to 2.8 bar 627	627-842	15 to 40 psi / 1 to 2.8 bar
627-845 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-846 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-847 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-841 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-941 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-944 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-945 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-947 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port;	627-843	35 to 80 psi / 2.4 to 5.5 bar
5 to 20 psi / 0.34 to 1.4 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-941 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-945 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-947 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 3 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-195 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar	627-844	70 to 150 psi / 4.8 to 10.3 bar
15 to 40 psi / 1 to 2.8 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627H-142 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 627H-96 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15	627-845	5 to 20 psi / 0.34 to 1.4 bar
627-848 35 to 80 psi / 2.4 to 5.5 bar 627-848 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-941 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 627-945 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-947 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 627-948 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 627-88 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 627-88 1 in. FNPT WCC; High Pressure Regul	627-846	, , , , , ,
70 to 150 psi / 4.8 to 10.3 bar 627-941	627-847	35 to 80 psi / 2.4 to 5.5 bar
5 to 20 psi / 0.34 to 1.4 bar 627-942 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar 627-943 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-945 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627-946 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627-947 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 70 to 150 psi / 16.5 to 34.5 bar 627H-142 2 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 627H-88 1 in. FNPT WCC; High Pressure Regulator, 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 627H-96 1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 627H-195 627M-196 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-267 2 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 0.34 to 1.4 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 0.34 to 1.4 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1	627-848	
15 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 2 40 to 500 psi / 16.5 to 34.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 40 psi / 4.8 to 10.3 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Reg	627-941	
35 to 80 psi / 2.4 to 5.5 bar 27-944 2 in. FNPT WCC; High Pressure Regulator; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 40 to 500 psi / 16.5 to 34.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 40 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port, 40 to 250 psi / 9.7 to 17.2 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.5 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.5 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.5 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.5 bar	627-942	
70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 240 to 500 psi / 16.5 to 34.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-196 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 40 psi / 1 to 2.8 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar	627-943	
5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 240 to 500 psi / 16.5 to 34.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator, 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 10 to 150 psi / 4.8 to 10.3 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 4.8 to 10.3 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627-944	
15 to 40 psi / 1 to 2.8 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 240 to 500 psi / 16.5 to 34.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT wCC; High Pressure Regulator, 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-196 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar	627-945	
35 to 80 psi / 2.4 to 5.5 bar 627-948 2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627H-142 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 240 to 500 psi / 16.5 to 34.5 bar 627H-88 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 627H-96 1 in. FNPT wcc, High Pressure Regulator, 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 627M-195 5 to 20 psi / 0.34 to 1.4 bar 627M-196 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 80 psi / 2.4 to 5.5 bar 627M-198 627M-267 2 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-268 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar	627-946	
70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT WCC; High Pressure Regulator; 3/16 in. port; 240 to 500 psi / 16.5 to 34.5 bar 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT WCC; High Pressure Regulator, 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-268 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar	627-947	
627H-88 240 to 500 psi / 16.5 to 34.5 bar 627H-88 1 in. FNPT WCC; High Pressure Regulator; 1/8 in. port; 140 to 250 psi / 9.7 to 17.2 bar 627H-96 1 in. FNPT wcc, High Pressure Regulator, 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 627M-195 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-196 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-268 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-421 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-422 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar	627-948	
140 to 250 psi / 9.7 to 17.2 bar 1 in. FNPT wcc, High Pressure Regulator, 1/2 in. port, 140 to 250 psi / 9.7 to 17.2 bar 3/4 in. FNPT wCc; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 80 psi / 2.4 to 5.5 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-268 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar	627H-142	240 to 500 psi / 16.5 to 34.5 bar
140 to 250 psi / 9.7 to 17.2 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-197 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-198 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 627M-267 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 627M-268 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627H-88	140 to 250 psi / 9.7 to 17.2 bar
5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-198 627M-267 627M-267 627M-268 627M-268 627M-269 627M-269 627M-270 627M-	627H-96	
15 to 40 psi / 1 to 2.8 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-198	627M-195	
35 to 80 psi / 2.4 to 5.5 bar 3/4 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-196	
70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-197	
5 to 20 psi / 0.34 to 1.4 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar 627M-269 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 627M-270 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-198	
15 to 40 psi / 1 to 2.8 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-267	
35 to 80 psi / 2.4 to 5.5 bar 2 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-268	
70 to 150 psi / 4.8 to 10.3 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-269	
5 to 20 psi / 0.34 to 1.4 bar 3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port;	627M-270	70 to 150 psi / 4.8 to 10.3 bar
	627M-421	
	627M-422	

	Description
627M-423	3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
02/IVI-424	3/4 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
02/IVI-4/ I	1 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
02/IVI-4/2	1 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
02/IVI-4/3	1 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
02/IVI-4/4	1 in. FNPT Ductile Iron; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
027 IVI-040	1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
027 IVI-040	1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
02/ IVI-04/	1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
027 IVI-040	1 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
02/IVI-/45	2 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
02/IVI-/40	2 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
62/W-/4/	2 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
027 IVI-740	2 in. FNPT WCC; High Pressure Monitor Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
02/R-113	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
027R-114	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
02/K-115	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
02/K-110	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
62/R-11/	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
02/R-110	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
02/K-119	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
02/R-12U	3/4 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
62/R-193	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627K-194	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
02/K-195	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
62/R-196	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
02/R-19/	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
021R-190	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
021K-199	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
021R-200	1 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 70 to 150 psi / $4.8\ to$ 10.3 bar
02/K-2/3	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
n//R-//4	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar

Type No.	Description
007D 075	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port;
627R-275	35 to 80 psi / 2.4 to 5.5 bar
627R-276	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-277	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 5 to 20 psi / 0.34 to $1.4\ \text{bar}$
627R-278	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-279	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; $35\ to\ 80\ psi\ /\ 2.4\ to\ 5.5\ bar$
627R-280	2 in. FNPT Ductile Iron; High Pressure Regulator with Relief; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-61	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 3/8 in. port; 5 to $20\;\text{psi}$ / 0.34 to $1.4\;\text{bar}$
627R-62	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-63	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627R-64	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-65	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627R-658	1 in. FNPT DI; High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-66	2 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-67	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627R-68	2 in. FNPT WCC; High Pressure Monitor Regulator with Relief; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-817	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627R-818	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-819	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627R-820	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-821	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627R-822	3/4 in. FNPT WCC High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-823	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627R-824	3/4 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-913	1 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627R-914	1 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-915	1 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627R-916	1 in. FNPT WCC; High Pressure Regulator with Relief; 3/8 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627R-917	1 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 5 to 20 psi / 0.34 to 1.4 bar
627R-918	1 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627R-919	1 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627R-920	1 in. FNPT WCC; High Pressure Regulator with Relief; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627W-13	3/4 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 10 to 20 psi / 0.69 to 1.4 bar
627W-14	3/4 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar

Type No.	Description
627W-15	3/4 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port;
627W-16	35 to 80 psi / 2.4 to 5.5 bar 3/4 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port;
627W-37	70 to 150 psi / 4.8 to 10.3 bar 1 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port;
627W-38	10 to 20 psi / 0.69 to 1.4 bar 1 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627W-39	1 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port;
627W-40	35 to 80 psi / 2.4 to 5.5 bar 1 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 70 to 150 psi / 4.8 to 10.3 bar
627W-61	2 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 10 to 20 psi / 0.69 to 1.4 bar
627W-62	2 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 15 to 40 psi / 1 to 2.8 bar
627W-63	2 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port; 35 to 80 psi / 2.4 to 5.5 bar
627W-64	2 in. FNPT WCC; High Pressure Liquid Regulator; 1/2 in. port;
630-104-78	70 to 150 psi / 4.8 to 10.3 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-122	8 to 20 psi / 0.55 to 1.4 bar; UL Listed 2 in. FNPT Cast Iron; High Pressure Regulator; 1/4 in. port;
630-311	46 to 95 psi / 3.2 to 6.6 bar; Nylon (PA) Disc 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-312	3 to 10 psi / 0.21 to 0.69 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-313	8 to 20 psi / 0.55 to 1.4 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-314	17 to 30 psi / 1.2 to 2.1 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-315	27 to 40 psi / 1.9 to 2.8 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-316	27 to 50 psi / 1.9 to 3.4 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-317	46 to 95 psi / 3.2 to 6.6 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-318	90 to 150 psi / 6.2 to 10.3 bar 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-319	150 to 200 / 10.3 to 13.8 bar psi 1 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-321	200 to 275 psi / 13.8 to 19 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-323	3 to 10 psi / 0.21 to 0.69 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-324	17 to 30 psi / 1.2 to 2.1 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-325	27 to 40 psi / 1.9 to 2.8 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-326	27 to 50 psi / 1.9 to 3.4 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
	46 to 95 psi / 3.2 to 6.6 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-327	90 to 150 psi / 6.2 to 10.3 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-328	150 to 200 psi / 10.3 to 13.8 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1/2 in. port;
630-329	200 to 275 psi / 13.8 to 19 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port;
630-8004	3 to 10 psi / 0.21 to 0.69 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port;
630-8008	8 to 20 psi / 0.55 to 1.4 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port;
630-8012	17 to 30 psi / 1.2 to 2.1 bar 1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port;
630-8016	27 to 40 psi / 1.9 to 2.8 bar

Type No.	Description
630-8020	1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 27 to 50 psi / 1.9 to 3.4 bar
630-8024	1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 46 to 95 psi / 3.2 to 6.6 bar
630-8028	1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 90 to 150 psi / 6.2 to 10.3 bar
630-8032	1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 150 to 200 psi / 10.3 to 13.8 bar
630-8036	1 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 200 to 275 psi / 13.8 to 19 bar
630-8044	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 3 to 10 psi / 0.21 to 0.69 bar
630-8048	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 8 to 20 psi / 0.55 to 1.4 bar
630-8052	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 17 to 30 psi / 1.2 to 2.1 bar
630-8056	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 27 to 40 psi / 1.9 to 2.8 bar
630-8060	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 27 to 50 psi / 1.9 to 3.4 bar
630-8064	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 46 to 95 psi / 3.2 to 6.6 bar
630-8067	2 in. FNPT WCC, High Pressure Regulator, 3/8 in. port; 90 to 150 psi / 6.2 to 10.3 bar
630-8068	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 90 to 150 psi / 6.2 to 10.3 bar
630-8072	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 150 to 200 psi / 10.3 to 13.8 bar
630-8080	2 in. FNPT WCC; High Pressure Regulator; 1/2 in. port; 275 to 500 psi / 19 to 34.5 bar
64-222	1/2 in. FNPT Aluminum; High Pressure Regulator; 35 to 100 psi / 2.4 to 6.9 bar
64-33	1/2 in. FNPT Aluminum; High Pressure Regulator; 3 to 15 psi / 0.21 to 1 bar
64-35	1/2 in. FNPT Aluminum; High Pressure Regulator; 5 to 35 psi / 0.34 to 2.4 bar
64-36	1/2 in. FNPT Aluminum; High Pressure Regulator; 30 to 60 psi / 2.1 to 4.1 bar
64KB-222	1/2 in. FNPT High Pressure Regulator for $\mathrm{NH_3}$ Service; 35 to 100 psi / 2.4 to 6.9 bar
64KB-33	1/2 in. FNPT High Pressure Regulator for NH ₃ Service; 3 to 15 psi / 0.21 to 1 bar
64KB-34	1/2 in. FNPT High Pressure Regulator for ${\rm NH_3}$ Service; 5 to 20 psi / 0.34 to 1.4 bar
64KB-35	1/2 in. FNPT High Pressure Regulator for NH ₃ Service; 5 to 35 psi / 0.34 to 2.4 bar
64KB-36	1/2 in. FNPT High Pressure Regulator for $\mathrm{NH_3}$ Service; 30 to 60 psi / 2.1 to 4.1 bar
64SR-122	1/2 in. FNPT; Automatic Changeover Regulator with Relief; 5 to 20 psi / 0.34 to 1.4 bar
64SR-21	1/2 in. FNPT Aluminum; High Pressure Regulator with Relief; 3 to 15 psi / 0.21 to 1 bar
64SR-22	1/2 in. FNPT Aluminum; High Pressure Regulator with Relief; 5 to 20 psi / 0.34 to 1.4 bar
64SR-23	1/2 in. FNPT Aluminum; High Pressure Regulator with Relief; 5 to 35 psi / 0.34 to 2.4 bar
64SR-24	1/2 in. FNPT Aluminum; High Pressure Regulator with Relief; 30 to 60 psi / 2.07 to 4.14 bar
67CD-100	1/4 in. FNPT; High Pressure Regulator; 5 to 20 psi / 0.34 to 1.4 bar; Dial Cap
67CD-101	1/4 in. FNPT; High Pressure Regulator; 5 to 35 psi / 0.34 to 2.4 bar; Dial Cap
67CD-102	1/4 in. FNPT; High Pressure Regulator; 20 to 50 psi / 1.4 to 3.4 bar; Dial Cap
67CD-103	1/4 in. FNPT; High Pressure Regulator; 40 to 100 psi / 2.8 to 6.9 bar; Dial Cap

Type No.	Description
67CD-104	1/4 in. FNPT; High Pressure Regulator with Type M318;
07CD-104	0 to 60 psi / 0 mbar to 4.1 bar; Dial Cap
67CD-115	1/4 in. FNPT; High Pressure Regulator with Types M318 and M104; 0 to 30 Gauge; 0 to 20 psi / 0 mbar to 2.1 bar; Dial Cap
67CD-116	1/4 in. FNPT; High Pressure Regulator with Types M318 and M104; 0 to 30 Gauge; 0 to 35 psi / 0 mbar to 2.1 bar; Dial Cap
67CH-150	1/4 in. FNPT; High Pressure Regulator; with Types M318, M104 and J502; 0 to 60 psi / 0 mbar to 4.1 bar; Handwheel
67CH-741	1/4 in. FNPT; High Pressure Regulator; 50 to 135 psi / 3.4 to 9.3 bar; Handwheel
67CH-742	1/4 in. FNPT; High Pressure Regulator; 30 to 60 psi / 2.1 to 4.1 bar; Handwheel
67CH-743	1/4 in. FNPT; High Pressure Regulator; 3 to 35 psi / 0.21 to 2.4 bar; Handwheel
67CH-743XB	1/4 in. FNPT; High Pressure Regulator; 3 to 35 psi / 0.21 to 2.4 bar; Handwheel; set at 15 psi / 1 bar
67CH-745	1/4 in. FNPT; High Pressure Regulator; 3 to 20 psi / 0.21 to 1.4 bar; Handwheel
67CH-751	1/4 in. FNPT; High Pressure Regulator; Type M318; 3 to 20 psi / 0.21 to 1.4 bar; Handwheel
67CH-80	1/4 in. FNPT; High Pressure Regulator; with Type J504; 30 to 60 psi / 2.1 to 4.1 bar; Handwheel
67CH-90	1/4 in. FNPT High Pressure Regulator; with Type J501;
67CN-104	3 to 35 psi / 0.21 to 2.4 bar; Handwheel 1/4 in. FNPT; High Pressure Regulator; 15 psi / 1 bar setpoint;
67CN-105	Non-Adjustable 1/4 in. FNPT; High Pressure Regulator; 20 psi / 1.4 bar setpoint;
67CN-106	Non-Adjustable 1/4 in. FNPT; High Pressure Regulator; 10 psi / 0.69 bar setpoint; Non-
	Adjustable 1/4 in. FNPT; High Pressure Regulator; with Types M104 and F181;
67CW-120	30 to 60 psi / 2.1 to 4.1 bar 1/4 in. FNPT; High Pressure Regulator; with Type J503;
67CW-62	50 to 100 psi / 3.4 to 6.9 bar
67CW-683 67CW-684	1/4 in. FNPT; High Pressure Regulator; 3 to 20 psi / 0.21 to 1.4 bar
67CW-685	1/4 in. FNPT; High Pressure Regulator; 3 to 35 psi / 0.21 to 2.4 bar 1/4 in. FNPT; High Pressure Regulator; 30 to 60 psi / 2.1 to 4.1 bar
67CW-687	1/4 in. FNPT; High Pressure Regulator; with Type M318;
	3 to 35 psi / 0.21 to 2.4 bar
67CW-701	1/4 in. FNPT; High Pressure Regulator; 50 to 135 psi / 3.4 to 9.3 bar 1/2 in. FNPT; Changeover Manifold; Supply setting 15 psi / 1 bar;
749B-21	Reserve Setting 5 psi / 0.34 bar
99-502PH	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P_1 300 psig / 20.7 bar
99-502PHM	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P ₁ 300 psig / 20.7 bar
99-502PHO	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat; 1 to 5 psi / 69 mbar to 0.34 bar; Max $\rm P_1$ 250 psig / 17.2 bar
99-502PHOM	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat; 1 to 5 psi / 69 mbar to 0.34 bar; Max P ₁ 250 psig / 17.2 bar
99-503PH	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max P ₁ 300 psig / 20.7 bar
99-503PHM	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max P_1 300 psig / 20.7 bar
99-503PHO	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat; 2 to 10 psi / 0.14 to 0.69 bar; Max $\rm P_1$ 250 psig / 17.2 bar
99-503PHOM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; O-ring Seat; 2 to 10 psi / 0.14 to 0.69 bar; Max P_1 250 psig / 17.2 bar
99-504PH	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 300 psig / 20.7 bar
99-504PHM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 300 psig / 20.7 bar
99-504PHO	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 250 psig / 17.2 bar
99-504PHOM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; O-ring Seat; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 250 psig / 17.2 bar

Type No.	Description
99-505PH	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port;
	10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 300 psig / 20.7 bar 2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port;
99-505PHM	10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 300 psig / 20.7 bar
99-505PHO	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat 10 to 20 psi / 0.69 to 1.4 bar; Max P_1 250 psig / 17.2 bar
99-505PHOM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; O-ring Seat; 10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 250 psig / 17.2 bar
99-510P	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 1/4 to 2 psi / 17 mbar to 0.14 bar; Max P, 250 psig / 17.2 bar
99-510PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 7/8 in. port; 1/4 to 2 psi / 17 mbar to 0.14 bar; Max P, 250 psig / 17.2 bar
99-511P	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P ₁ 250 psig / 17.2 bar
99-511PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 7/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P, 250 psig / 17.2 bar
99-512P	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 250 psig / 17.2 bar
99-512PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 7/8 in. port; 5 to 15 psi / 0.34 to 1 bar; Max P, 250 psig / 17.2 bar
99-513P	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max P ₁ 250 psig / 17.2 bar
99-513PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 7/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max P ₁ 250 psig / 17.2 bar
99-515P	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 10 to 20 psi / 0.69 to 1.4 bar; Max P, 250 psig / 17.2 bar
99-515PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 7/8 in. port;
99-901P	10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 250 psig / 17.2 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port;
99-901PH	10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 150 psig / 10.3 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 300 psig / 20.7 bar
99-901PHM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 10 to 65 psi / 0.69 to 4.5 bar; Max P, 300 psig / 20.7 bar
99-901PHO	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat 10 to 65 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar
99-901PHOM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; O-ring Seat; 10 to 65 psi / 2.4 to 6.9 bar; Max P, 250 psig / 17.2 bar
99-901PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 10 to 65 psi / 2.4 to 6.9 bar; Max P ₁ 150 psig / 10.3 bar
99-903P	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 10 to 65 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar
99-903PM	2 in. FNPT Cast Iron; HP Monitor Regulator; 7/8 in. port; 10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 250 psig / 17.2 bar
99-924	2 in. FNPT Cast Iron; High Pressure Regulator; 7/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar
99-924PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 7/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar
99-926	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P, 150 psig / 10.3 bar
99-926PH	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 300 psig / 20.7 bar
99-926PHM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 300 psig / 20.7 bar
99-926PHO	2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port; O-ring Seat; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar
99-926PHOM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; O-ring Seat; 35 to 100 psi / 2.4 to 6.9 bar; Max P, 250 psig / 17.2 bar
99-926PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 150 psig / 10.3 bar
99F-502PH	2 in. CL300 RF High Pressure Regulator; 1-1/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P ₁ 300 psig / 20.7 bar
99F-502PHM	2 in. CL300 RF High Pressure Monitor Regulator; 1-1/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P, 300 psig / 20.7 bar
99F-503PH	2 in. CL300 RF High Pressure Regulator; 1-1/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max P ₁ 300 psig / 20.7 bar
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Type No.	Description
99F-503PHM	2 in. CL300 RF High Pressure Monitor Regulator; 1-1/8 in. port;
991 -303F11W	2 to 10 psi / 0.14 to 0.69 bar; Max P ₁ 300 psig / 20.7 bar 2 in. CL300 RF High Pressure Regulator; 1-1/8 in. port;
99F-504PH	5 to 15 psi / 0.34 to 1 bar; Max P ₁ 300 psig / 20.7 bar
99F-504PHM	2 in. CL300 RF High Pressure Monitor Regulator; 1-1/8 in. port; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 300 psig / 20.7 bar
99F-505PH	2 in. CL300 RF High Pressure Regulator; 1-1/8 in. port;
991 -303F11	10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 300 psig / 20.7 bar 2 in. CL300 RF High Pressure Monitor Regulator; 1-1/8 in. port;
99F-505PHM	10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 300 psig / 20.7 bar
99F-510P	2 in. CL300 RF High Pressure Regulator; 7/8 in. port; 1/4 to 2 psi / 17 mbar to 0.14 bar; Max P ₁ 250 psig / 17.2 bar
99F-510PM	2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port;
	1/4 to 2 psi / 17 mbar to 0.14 bar; Max P ₁ 250 psig / 17.2 bar 2 in. CL300 RF High Pressure Regulator; 7/8 in. port;
99F-511P	1 to 5 psi / 69 mbar to 0.34 bar; Max P_1 250 psig / 17.2 bar
99F-511PM	2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max P, 250 psig / 17.2 bar
99F-512P	2 in. CL300 RF High Pressure Regulator; 7/8 in. port; 5 to 15 psi / 0.34 to 1 bar; Max P ₁ 250 psig / 17.2 bar
00E 510DM	2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port;
99F-512PM	5 to 15 psi / 0.34 to 1 bar; Max P ₁ 250 psig / 17.2 bar 2 in. CL300 RF High Pressure Regulator; 7/8 in. port;
99F-513P	2 to 10 psi / 0.14 to 0.69 bar; Max P ₁ 250 psig / 17.2 bar
99F-513PM	2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max P, 250 psig / 17.2 bar
99F-515P	2 in. CL300 RF High Pressure Regulator; 7/8 in. port;
997-010F	10 to 20 psi / 0.69 to 1.4 bar; Max P ₁ 250 psig / 17.2 bar 2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port;
99F-515PM	10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 250 psig / 17.2 bar
99F-901PH	2 in. CL300 RF High Pressure Regulator; 1-1/8 in. port; 10 to 65 psi / 0.69 to 4.5 bar; Max P, 300 psiq / 20.7 bar
99F-901PHM	2 in. CL300 RF High Pressure Monitor Regulator; 1-1/8 in. port;
	10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 300 psig / 20.7 bar 2 in. CL300 RF High Pressure Regulator; 7/8 in. port;
99F-903P	10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 250 psig / 17.2 bar
99F-903PM	2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port; 10 to 65 psi / 0.69 to 4.5 bar; Max P ₁ 250 psig / 17.2 bar
99F-924	2 in. CL300 RF High Pressure Regulator; 7/8 in. port;
99F-924PM	35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar 2 in. CL300 RF High Pressure Monitor Regulator; 7/8 in. port;
	35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 250 psig / 17.2 bar 2 in. CL300 RF High Pressure Regulator; 1-1/8 in. port;
99F-926PH	35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 300 psig / 20.7 bar
99F-926PHM	2 in. CL300 RF High Pressure Monitor Regulator; 1-1/8 in. port; 35 to 100 psi / 2.4 to 6.9 bar; Max P ₁ 300 psiq / 20.7 bar
MR95H-103	1/4 in. FNPT WCC, Regulator, 70 to 150 psig / 4.8 to 10.3 bar, Trim 2,
MDOCII 44	Max Inlet/Outlet 300 psig / 20.7 bar 1 in. FNPT Cast Iron, Regulator, 25 to 75 psig / 1.7 to 5.2 bar, Trim 10,
MR95H-11	Max Inlet/Outlet 250 psig / 17.2 bar
MR95H-3	1/4 in. FNPT Cast Iron, Regulator, 70 to 150 psig / 4.8 to 10.3 bar, Trim 10, Max Inlet/Outlet 250 psig / 17.2 bar
MR95H-35	1/4 in. FNPT Cast Iron, Regulator, 70 to 150 psig / 4.8 to 10.3 bar, Trim 1, Max Inlet/Outlet 250 psig / 17.2 bar
MR95H-4	1/2 in. FNPT Cast Iron, Reg, 15 to 30 psig / 1 to 2.1 bar, Trim 10,
	Max Inlet/Outlet 250 psig / 17.2 bar 1/2 in. FNPT Cast Iron, Reg, 25 to 75 psig / 1.7 to 5.2 bar, Trim 1,
MR95H-40	Max Inlet/Outlet 250 psig / 17.2 bar
MR95H-5	1/2 in. FNPT Cast Iron, Reg, 25 to 75 psig / 1.7 to 5.2 bar, Trim 10, Max Inlet/Outlet 250 psig / 17.2 bar
MR95H-53	1 in. FNPT Cast Iron, Reg, 70 to 150 psig / 4.8 to 10.3 bar, Trim 1, Max Inlet/Outlet 250 psig / 17.2 bar
MR95H-8	3/4 in. FNPT Cast Iron, Reg, 25 to 75 psig / 1.7 to 5.2 bar, Trim 10,
R130-21	Max Inlet/Outlet 250 psig / 17.2 bar Small Commercial Changeover Manifold; 1/4 x 1/4 in.
	2 in. FNPT Cast Iron; High Pressure Regulator;
133H-1	1.5 to 3 psi / 0.10 to 0.21 bar
133H-2	2 in. FNPT Cast Iron; High Pressure Regulator; 2 to 5 psi / 0.14 to 0.34 bar
133H-3	2 in. FNPT Cast Iron; High Pressure Regulator;
	5 to 10 psi / 0.34 to 0.69 bar

Commercial/Industrial Low-Pressure Regulators

Type No.	Description
	2 in. CL125 FF Cast Iron; High Pressure Regulator;
133H-4	1.5 to 3 psi / 0.10 to 0.21 bar
133H-5	2 in. CL125 FF Cast Iron; High Pressure Regulator; 2 to 5 psi / 0.14 to 0.34 bar
133H-6	2 in. CL125 FF Cast Iron; High Pressure Regulator; 5 to 10 psi / 0.34 to 0.69 bar
133HP-AC1	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 6 to 20 psi / 0.41 to 1.38 bar
133HP-AC2	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 16 to 30 psi / 1.1 to 2.1 bar
133HP-AC3	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 26 to 40 psi / 1.8 to 2.8 bar
133HP-AC4	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 36 to 50 psi / 2.5 to 3.4 bar
133HP-AC5	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 45 to 60 psi / 3.2 to 4.1 bar
133HP-AC6	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 2 to 5 psi / 0.14 to 0.34 bar
133HP-AC7	2 in. FNPT Cast Iron; Dist. Serv. Self Op Regulator; 4.5 to 10 psi / 4.0.34 to 0.69 bar
133HP-AD1	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 6 to 20 psi / 0.41 to 1.38 bar
133HP-AD2	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 16 to 30 psi / 1.1 to 2.1 bar
133HP-AD3	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 26 to 40 psi / 1.8 to 2.8 bar
133HP-AD4	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 36 to 50 psi / 2.5 to 3.4 bar
133HP-AD5	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 45 to 60 psi / 3.2 to 4.1 bar
133HP-AD6	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 2 to 5 psi / 0.14 to 0.34 bar
133HP-AD7	2 in. CL125 FF Cast Iron; Dist. Serv. Self Op Regulator; 4.5 to 10 psi / 4.0.34 to 0.69 bar
133HP-BE2	2 in. CL150 RF Steel; Dist. Serv. Self Op Reg; 16 to 30 psi / 1.1 to 2.1 bar
133L-1	2 in. FNPT Cast Iron; Low Pressure Regulator; 2 to 4 in. w.c. / 5 to 19 mbar
133L-10	2 in. CL125 FF Cast Iron; Low Pressure Regulator; 8.5 to 18 in. w.c. / 21 to 45 mbar
133L-11	2 in. CL125 FF Cast Iron; Low Pressure Regulator; 14 to 28 in. w.c. / 35 to 70 mbar
133L-12	2 in. CL125 FF Cast Iron; Low Pressure Regulator; 3/4 to 2 psi / 52 mbar to 0.14 bar
133L-2	2 in. FNPT Cast Iron; Low Pressure Regulator; 3.5 to 6 in. w.c. / 8.7 to 15 mbar
133L-3	2 in. FNPT Cast Iron; Low Pressure Regulator; 5 to 9 in. w.c. / 12 to 22 mbar
133L-4	2 in. FNPT Cast Iron; Low Pressure Regulator; 8.5 to 18 in. w.c. / 21 to 45 mbar
133L-6	2 in. FNPT Cast Iron; Low Pressure Regulator; 3/4 to 2 psi / 52 mbar to 0.14 bar
133L-7	2 in. CL125 FF Cast Iron; Low Pressure Regulator; 2 to 4 in. w.c. / 5 to 10 mbar
133L-8	2 in. CL125 FF Cast Iron; Low Pressure Regulator; 3.5 to 6 in. w.c. / 8.7 to 15 mbar
133L-9	2 in. CL125 FF Cast Iron; Low Pressure Regulator; 5 to 9 in. w.c. / 12 to 22 mbar
299H-101	1-1/2 in. FPNT Cast Iron; Pilot Operated Regulator; Internal; $3/4$ in. port; 7 to 20 in. w.c. / 17 to 50 mbar
299H-102	2 in. FPNT Cast Iron; Pilot Operated Regulator; Internal; 3/4 in. port; 7 to 20 in. w.c. / 17 to 50 mbar
299H-103	1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; Internal; $3/4$ in. port; 5 to $16\ psig$ / 0.34 to $1.1\ bar$
299H-104	2 in. FNPT Cast Iron; Pilot Operated Regulator; Internal; 3/4 in. port; 5 to 16 psig / 0.34 to 1.1 bar

299H-108 2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 5 to 16 psig / 0.34 to 1.1 bar	Type No.	Description
29H-106 2 in. FPNT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 7 to 20 in. w.c. / 17 to 50 mbar 29H-107 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 5 to 16 psig / 0.34 to 1.1 bar 29H-108 2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 5 to 16 psig / 0.34 to 1.1 bar 29H-109 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 14 to 35 psig / 0.97 to 2.4 bar 29H-MAF 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MAF 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MAH 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MAH 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MAH 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MAK 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/3/6 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MBF 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/3-1/6 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MBG 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MBH 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MBH 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MBK 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-MBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 29H-NBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1	299H-105	
299H-107 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 5 to 16 psig / 0.34 to 1.1 bar 299H-108 2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port; 5 to 16 psig / 0.34 to 1.1 bar 299H-109 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 to 35 psig / 0.97 to 2.4 bar 299H-110 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 to 35 psig / 0.97 to 2.4 bar 299H-MAF 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 14 x 388 in. port, 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port, 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAH 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAL 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBG 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBH 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Serv	299H-106	2 in. FPNT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port;
299H-108 2 in, FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in, port; 5 to 16 psig/ 0.34 to 1.1 bar 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 to 35 psig/ 0.97 to 2.4 bar 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 to 35 psig/ 0.97 to 2.4 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 14 x 3/6 in, port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/6 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. 5.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. 5.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. 5.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial	299H-107	1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port;
299H-109 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 to 35 psig / 0.97 to 2.4 bar 299H-MAF 1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 14 x 38 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAH 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAH 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAL 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAL 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-1/2 in. FNPT Cast Iron; Commercial Servi	299H-108	2 in. FNPT Cast Iron; Pilot Operated Regulator; External; 3/4 in. port;
299H-MAF	299H-109	1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator; External;
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/6 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar	299H-110	1-1/2 in. FNPT Cast Iron; Pilot Operated Regulator;
299H-MAG 3-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 3 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 3 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 3 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 ps	299H-MAF	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External;
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25	299H-MAG	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External;
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar	299H-MAH	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External;
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MAL 1-1/2 in. FNPT Cast Iron; Commercial Service. Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBF 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBG 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBH 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NAF 299H-NAF 299H-NAF 299H-NAF 200H-NAF 200H-	299H-MAJ	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External;
1-1/2 in. FNPT Cast Iron; Commercial Service. Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Co	299H-MAK	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in.
2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBH 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBH 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBK 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 299H-MBL 299H-NAF 201. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NAF 299H-NAF 299H-NAF 21-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBH 201. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 201. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 201. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Dual; 1.3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service Regulator; Dual; 1.3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 201. FNPT Cast Iron; Commercial Service	299H-MAL	1-1/2 in. FNPT Cast Iron; Commercial Service. Regulator; External;
299H-MBG 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 299H-MBL 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NAF 299H-NAF 299H-NAF 299H-NAF 299H-NAF 299H-NBH 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBH 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBH 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20 in. FNPT Cast Iron; Commercial	299H-MBF	2 in. FNPT Cast Iron; Commercial Service Regulator; External;
299H-MBH 299H-MBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBK 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NAF 299H-NAF 299H-NAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3	299H-MBG	2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/8 in. port;
29H-MBJ 29H-MBK 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBK 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 299H-NAF 29H-NAF 29H-NAF 299H-NAF 299H-NAG 299H-NAG 299H-NAG 299H-NAG 299H-NBH 299H-NBH 299H-NBH 299H-NBH 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 3 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT C	299H-MBH	2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1/2 in. port;
29H-MBK 2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-MBL 299H-NAF 299H-NAF 299H-NAF 299H-NAF 299H-NAG 299H-NAG 299H-NAG 299H-NAG 299H-NBH 299H-NBH 299H-NBH 299H-NBJ 299H-NBJ 299H-NBJ 299H-NBJ 299H-NBJ 299H-NBL 20in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 299H-NBL 299H-NBL 20in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 299H-NBL 20in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 20in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 20in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 ba	299H-MBJ	2 in. FNPT Cast Iron; Commercial Service Regulator; External; 3/4 in. port;
29H-MBL 29H-NAF 299H-NAF 299H-NAF 299H-NAG 299H-NAG 299H-NAG 299H-NBH 299H-NBH 299H-NBH 299H-NBJ 299H-NBJ 299H-NBJ 299H-NBL 299H-PAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 299H-PAJ 209H-PAJ 209H-PAJ 209H-PAJ 209H-PAJ 209H-PAL 209H-PBL	299H-MBK	2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1 in. port;
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 x 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NAG 299H-NBH 299H-NBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in.	299H-MBL	2 in. FNPT Cast Iron; Commercial Service Regulator; External; 1-3/16 in.
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar	299H-NAF	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/4 x 3/8 in.
2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBJ 299H-NBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBK 299H-NBL 299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 299H-PAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAL 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar	299H-NAG	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/8 in.
2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBK 299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAL 299H-PBL 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 3 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-NBH	2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1/2 in. port;
29H-NBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAL 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 3 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 1 in. FNPT Cast Iron; Cast	299H-NBJ	2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 3/4 in. port;
299H-NBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAL 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; 0.073 in. port; 9-1/4 to 13 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. PNPT WCB; Single Stage Regulator	299H-NBK	2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1 in. port;
299H-PAG 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAJ 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PAL 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 1.00 more control of the control o	299H-NBL	2 in. FNPT Cast Iron; Commercial Service Regulator; Internal; 1-3/16 in.
1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar	299H-PAG	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/8 in. port;
299H-PAL 1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-PAJ	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port;
299H-PBH 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1/2 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 912-101XA 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-PAL	1-1/2 in. FNPT Cast Iron; Commercial Service Regulator; Dual;
299H-PBJ 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 3/4 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 912-101XA 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-PBH	2 in. FNPT Cast Iron; Commercial Service Regulator; Dual;
299H-PBK 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-PBJ	2 in. FNPT Cast Iron; Commercial Service Regulator; Dual;
299H-PBL 2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port; 1 to 3.25 psi / 69 mbar to 0.22 bar 912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-PBK	2 in. FNPT Cast Iron; Commercial Service Regulator; Dual;
912-101 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet 1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	299H-PBL	2 in. FNPT Cast Iron; Commercial Service Regulator; Dual; 1-3/16 in. port;
1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;	912-101	1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; 0.073 in. port;
V 1/T IO TO III. / ZO IO OZ (IIDAI. VEIII UVEI IIIIE)	912-101XA	

Type No.	Description
912-104	1/4 x 1/4 in. FNPT WCB; Single Stage Regulator; 0.073 in. port; 9-1/4 to 13 in. / 23 to 32 mbar; Vent over Outlet
912-112	1/4 X 3/8 in. FNPT; Single Stage Regulator; 0.073 in. port; 12 to 24 in. w.c. / 30 to 60 mbar; Vent over Outlet
912-122	1/4 x 3/8 in. FNPT WCB; Single Stage Regulator; with M318; 0.073 in. port; 9-1/4 to 13 in / 23 to 32 mbar; Vent over Outlet
912-197	1/4 x 3/8 in. FNPT Single Stage Regulator; 0.094 in. port;
912-264	12 to 24 in. w.c. / 30 to 60 mbar; Vent over Outlet 1/4 x 3/8 in. FNPT Single Stage Regulator; 0.073 in. port;
912-264XA	12 to 24 in. w.c. / 30 to 60 mbar; Vent over Outlet 1/4 x 3/8 in. FNPT Single Stage Regulator; 0.073 in. port;
912-267	12 to 24 in. w.c. / 30 to 60 mbar; Vent over Inlet 1/4 x 3/8 in. FNPT Single Stage Regulator; 0.073 in. port;
	3 to 7 in. w.c. / 7.5 to 17 mbar; Vent over Outlet 1/4 X 3/8 in. FNPT; Regulator; port 13 1/2 in.;
912-569	10 to 1 psi / 0.7 to 0.07 bar 1/4 x 3/8 in. FNPT High-Pressure Regulator; 0.094 in. port;
912H-108	0.5 to 2.7 psi / 34 mbar to 0.19 bar; Vent over Outlet 1/4 x 1/4 in. FNPT High-Pressure Regulator; 0.094 in. port;
912H-520	2.7 to 5 psi / 0.19 to 0.34 bar; Vent over Outlet
912N-108B1	1/4 x 1/4 in. FNPT High Pressure Regulator; 0.094 in. port; 0.5 to 2.7 psi / 34 mbar to 0.19 bar; Vent over Oulet
912N-109	1/4 x 3/8 in. FNPT Single Stage Regulator; 0.073 in. port; 5 to 10 in. w.c. / 12 to 25 mbar; Vent over Outlet
912N-113	1/4 x 3/8 in. FNPT Single Stage Regulator; 0.073 in. port; 3 to 7 in. w.c. / 7.5 to 17 mbar; Vent over Outlet
912N-194	1/4 x 1/4 in. FNPT Single Stage Regulator; 0.073 in. port; 3 to 7 in. w.c. / 7.5 to 17 mbar; Vent over Outlet
99-501P	2 in. FNPT Cast Iron; High Pressure Reg; 1-1/8 in. port; 1/4 to 2 psig / 17 mbar to 0.14 bar; Max Pressure 150 psig / 10.3 bar
99-501PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 1/4 to 2 psi / 17 mbar to 0.14 bar; Max Pressure 150 psig / 10.3 bar
99-502P	2 in. FNPT Cast Iron; High Pressure; 1-1/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max Pressure 150 psig / 10.3 bar
99-502PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port; 1 to 5 psi / 69 mbar to 0.34 bar; Max Pressure 150 psig / 10.3 bar
99-503P	2 in. FNPT Cast Iron; High Pressure; 1-1/8 in. port; 2 to 10 psi / 0.14 to 0.69 bar; Max Pressure 150 psig / 10.3 bar
99-503PM	2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port;
99-504P	2 to 10 psi; Max Pressure 150 psig / 10.3 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port;
99-504PM	5 to 15 psi / 0.34 to 1 bar; Max Pressure 150 psig / 10.3 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port;
99-505P	5 to 15 psi / 0.34 to 1 bar; Max Pressure 150 psig / 10.3 bar 2 in. FNPT Cast Iron; High Pressure Regulator; 1-1/8 in. port;
	10 to 20 psi / 0.69 to 1.4 bar; Max Pressure 150 psig / 10.3 bar 2 in. FNPT Cast Iron; High Pressure Monitor Regulator; 1-1/8 in. port;
99-505PM	10 to 20 psi / 0.69 to 1.4 bar; Max Pressure 150 psig / 10.3 bar 3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/
CS200IR-6AC1	Relief 3.5 to 5 in. w.c. / 8.7 to 12 mbar 1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief
CS200IR-6AC3	1-1/4 FNPT Cast fron Low Pressure Regulator; 1/2 in. Port Internal/
CS200IR-6AC6	Relief 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS200IR-6BC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS200IR-6BC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS200IR-6BC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS200IR-6CC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 6 to 8 in. w.c. / 15 to 20 mbar
CS200IR-6CC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 6 to 8 in. w.c. / 15 to 20 mbar
CS200IR-6CC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 6 to 8 in. w.c. / 15 to 20 mbar

Type No.	Description
CS200IR-6DC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 7.5 to 11 in. w.c. / 19 to 27 mbar
CS200IR-6DC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 7.5 to 11 in. w.c. / 19 to 27 mbar
CS200IR-6DC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 7.5 to 11 in. w.c. / 19 to 27 mbar
CS200IR-6EC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 10 to 14 in. w.c. / 25 to 35 mbar
CS200IR-6EC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 10 to 14 in. w.c. / 25 to 35 mbar
CS200IR-6EC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 10 to 14 in. w.c. / 25 to 35 mbar
CS200IR-6FC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 12 to 19 in. w.c. / 30 to 47 mbar
CS200IR-6FC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 12 to 19 in. w.c. / 30 to 47 mbar
CS200IR-6FC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 12 to 19 in. w.c. / 30 to 47 mbar
CS200IR-6GC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS200IR-6GC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS200IR-6GC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS200IR-6HC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/ Relief 1 to 2 psig / 69 mbar to 0.14 bar
CS200IR-6HC3	1 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 1 to 2 psig / 69 mbar to 0.14 bar
CS200IR-6HC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port Internal/Relief 1 to 2 psig / 69 mbar to 0.14 bar
CS205IR-4AC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS205IR-4AC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS205IR-4AC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS205IR-4BC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS205IR-4BC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 4.5 to 6.5 in. w.c./ 11 to 16 mbar
CS205IR-4BC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS205IR-4CC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 6 to 8 in. w.c. / 15 to 20 mbar
CS205IR-4CC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 6 to 8 in. w.c. / 15 to 20 mbar
CS205IR-4CC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 6 to 8 in. w.c. / 15 to 20 mbar
CS205IR-4DC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal 7.5 to 11 in. w.c. / 19 to 27 mbar
CS205IR-4DC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 7.5 to 11 in. w.c. / 19 to 27 mbar
CS205IR-4DC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 7.5 to 11 in. w.c. / 19 to 27 mbar
CS205IR-4EC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 10 to 14 in. w.c. / 25 to 35 mbar
CS205IR-4EC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 10 to 14 in. w.c. / 25 to 35 mbar
CS205IR-4EC6	1-1/4 in. FNPTCast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 10 to 14 in. w.c. / 25 to 35 mbar
CS205IR-4FC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 12 to 19 in. w.c. / 30 to 47 mbar
CS205IR-4FC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 12 to 19 in. w.c. / 30 to 47 mbar
CS205IR-4FC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 12 to 19 in. w.c. / 30 to 47 mbar

Type No.	Description
CS205IR-4GC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS205IR-4GC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seat; 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS205IR-4GC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS205IR-4HC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 1 to 2 psig / 69 mbar to 0.14 bar
CS205IR-4HC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 1 to 2 psig / 69 mbar to 0.14 bar
CS205IR-4HC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Seal; 1 to 2 psig / 69 mbar to 0.14 bar
CS206IR-4AC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS206IR-4AC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS206IR-4AC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 3.5 to 5 in. w.c. / 8.7 to 12 mbar
CS206IR-4BC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS206IR-4BC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS206IR-4BC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 4.5 to 6.5 in. w.c. / 11 to 16 mbar
CS206IR-4CC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 6 to 8 in. w.c. / 15 to 20 mbar
CS206IR-4CC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 6 to 8 in. w.c. / 15 to 20 mbar
CS206IR-4CC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 6 to 8 in. w.c. / 15 to 20 mbar
CS206IR-4DC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; Seal; 7.5 to 11 in. w.c. / 19 to 27 mbar
CS206IR-4DC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 7.5 to 11 in. w.c. / 19 to 27 mbar
CS206IR-4DC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 7.5 to 11 in. w.c. / 19 to 27 mbar
CS206IR-4EC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 10 to 14 in. w.c. / 25 to 35 mbar
CS206IR-4EC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 10 to 14 in. w.c. / 25 to 35 mbar
CS206IR-4EC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 10 to 14 in. w.c. / 25 to 35 mbar
CS206IR-4FC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 12 to 19 in. w.c. / 30 to 47 mbar
CS206IR-4FC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 12 to 19 in. w.c. / 30 to 47 mbar
CS206IR-4FC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 12 to 19 in. w.c. / 30 to 47 mbar
CS206IR-4GC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS206IR-4GC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS206IR-4GC6	1-1/4 in FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 18 in. w.c. to 1 psig / 45 mbar to 69 bar
CS206IR-4HC1	3/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 1 to 2 psig / 69 mbar to 0.14 bar
CS206IR-4HC3	1 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 1 to 2 psig / 69 mbar to 0.14 bar
CS206IR-4HC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; Internal Relief; 5/16 in. Secondary Seat; Bleed; 1 to 2 psig / 69 mbar to 0.14 bar
CS400IN-8EC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; 3/4 Port; 10 to 14 in. w.c. / 25 to 35 mbar; Without Relief
CS400IN-8EC7	1-1/2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar; Without Relief
CS400IN-8EC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar; Without Relief

Type No.	Description
CS400IN-8EC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 3/4 in Port; 10 to 14 in. w.c. 25 to 35 mbar; Without Relief
CS400IN-8HC6	1-1/4 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port 1 to 2 psig / 69 mbar to 0.14 bar Non-Relief
CS400IN-8HC7	1-1/2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar Without Relief
CS400IN-8HC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar Without Relief
CS400IN-8HC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar Without Relief
CS400IN-8IC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.38 bar Non-Relief
CS400IN-8IC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.38 bar Non-Relief
CS400IN-8IC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.38 bar Non-Relief
CS400IN-8IC9	2 in. CL125 FF/CL150 FF Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.38 bar Non-Relief
CS400IR-3EC8	2 in. FNPT Cast Iron Low Pressure Regulator; 1/4 Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-3EC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 1/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-5EC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/8 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-5EC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 3/8 Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-5IC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/8 Port; 2 to 5.5 psig / 0.14 to 0.38 bar with Relief
CS400IR-6EC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-6GC7	1-1/2 FNPT Cast Iron Low Pressure Regulator
CS400IR-6HC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-6HC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-6HC8	2 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-6HC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 1/2 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-6IC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port; 2 to 2.5 psig / 0.14 to 0.17 bar with Relief
CS400IR-6IC7	1-1/2 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port; with Relief; 2 to 5.5 psig / 0.14 to 0.17 bar
CS400IR-6IC8	2 in. FNPT Cast Iron Low Pressure Regulator; 1/2 in. Port 2 to 5.5 psig / 0.14 to 0.17 bar with Relief
CS400IR-6IC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 1/2 in. Port; 2 to 5.5 psig / 0.14 to 0.17 bar with Relief
CS400IR-8BC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 4.5 to 6.5 in. w.c. / 11 to 16 mbar with Relief
CS400IR-8EC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-8EC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-8EC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-8EC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 3/4 in. Port; 10 to 14 in. w.c. / 25 to 35 mbar with Relief
CS400IR-8GC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 18 to 28 in. w.c. / 45 to 70 mbar with Relief
CS400IR-8GC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 18 to 28 in. w.c. / 45 to 70 mbar with Relief
CS400IR-8GC8	2 in. FNPT Cast Iron Low Pressure Regulator
CS400IR-8GC9	2 in. CL125 FF/CL150 Ductile Iron Low Pressure Regulator; 3/4 in. Port; 18 to 28 in. w.c. / 45 to 70 mbar with Relief

Type No.	Description
CS400IR-8HC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-8HC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-8HC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-8HC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 3/4 in. Port; 1 to 2 psig / 69 mbar to 0.14 bar with Relief
CS400IR-8IC6	1-1/4 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.17 bar with Relief
CS400IR-8IC7	1-1/2 FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.17 bar with Relief
CS400IR-8IC8	2 in. FNPT Cast Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.17 bar with Relief
CS400IR-8IC9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator; 3/4 in. Port; 2 to 5.5 psig / 0.14 to 0.17 bar with Relief
CS403IT-8DD2	11/4 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 11 in. w.c. (1 psi) / 27 mbar (69 mbar)
CS403IT-8DD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 11 in. w.c. (1 psi) / 27 mbar (69 mbar)
CS403IT-8DD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 11 in. w.c. (1 psig) / 27 mbar (69 mbar)
CS403IT-8DD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 11 in. w.c. (1 psig) / 27 mbar (69 mbar)
CS403IT-8FD2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in, Port; 18 in. w.c. (1.5 psi) / 45 mbar (0.1 bar)
CS403IT-8FD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 18 in. w.c. (1.5 psig) / 45 mbar (0.1 bar)
CS403IT-8FD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 18 in. w.c. (1.5 psig) / 45 mbar (0.1 bar)
CS403IT-8FD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Monitor; Token Relief; $3/4$ in. Port; 18 in. w.c. (1.5 psig) / 45 mbar (0.1 bar)
CS403IT-8HD2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 2 psig (3.5 psi) / 0.14 bar (0.24 bar)
CS403IT-8HD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS403IT-8HD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS403IT-8HD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS403IT-8LD2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 5 psig (7.5 psig) / 0.34 bar (0.52 bar)
CS403IT-8LD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 5 psig (7.5 psig) / 0.34 bar (0.52 bar)
CS403IT-8LD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 5 psig (7.5 psig) / 0.34 bar (0.52 bar)
CS403IT-8LD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Monitor; Token Relief; 3/4 in. Port; 5 psig (7.5 psig) / 0.34 bar (0.52 bar)
CS404IR-8ABD2	1-1/4 in FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 2 psig (1.0 to 3.5 psig) / 0.14 bar (69 mbar to 0.24 bar)
CS404IR-8ABD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 2 psig (1.0 to 3.5 psig) / 0.14 bar (69 mbar to 0.24 bar)
CS404IR-8ABD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/ OPSO; Internal Relief; 3/4 in. Port; 2 psig (1.0 to 3.5 psig) / 0.14 bar (69 mbar to 0.24 bar)
CS404IR-8ABD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 2 psig (1.0 to 3.5 psig) / 0.14 bar (69 mbar to 0.24 bar)
CS404IR-8AED2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 5 psig (2.9 to 8.3 psig) / 0.34 bar (0.2 to 0.57 bar)
CS404IR-8AED3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 5 psig (2.9 to 8.3 psig) / 0.34 bar (0.2 to 0.57 bar)

Type No.	Description
	2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/
CS404IR-8AED4	OPSO; Internal Relief; 3/4 in. Port; 5 psig (2.9 to 8.3 psig) 0.34 bar (0.2 to 0.57 bar)
CS404IR-8AED9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 5 psig (2.9 to 8.3 psig) / 0.34 bar (0.2 to 0.57 bar)
CS404IR-8DD2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (0.9 psig) / 27 mbar (62.1 mbar)
CS404IR-8DD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (0.9 psig) / 27 mbar (62.1 mbar)
CS404IR-8DD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (0.9 psig) / 27 mbar (62.1 mbar)
CS404IR-8DD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (0.9 psig) / 27 mbar (62.1 mbar)
CS404IR-8KD2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS404IR-8KD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS404IR-8KD4	2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS404IR-8KD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 2 psig (3.5 psig) / 0.14 bar (0.24 bar)
CS404IR-8ND2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 5 psig (8.3 psig) / 0.34 bar (0.57 bar)
CS404IR-8ND3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 5 psig (8.3 psig) / 0.34 bar (0.57 bar)
CS404IR-8ND4	2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 5 psig (8.3 psig) / 0.34 bar (0.57 bar)
CS404IR-8ND9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Slam-shut OPSO; Internal Relief; 3/4 in. Port; 5 psig (8.3 psig) / 0.34 bar (0.57 bar)
CS404IR-8VD2	1-1/4 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (6.3 in. w.c. to 0.9 psig) / 27 mbar (16 to 62 mbar)
CS404IR-8VD3	1-1/2 in. FNPT Ductile Iron Low Pressure Regulator with Slam-shut UPSO/OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (6.3 in. w.c. to 0.9 psig) / 0 mbar (16 to 62 mbar)
CS404IR-8VD4	2 in. FNPT Ductile Iron Low Pressure Regulator UPSO/OPSO; Internal Relief; 3/4 in. Port; 11 in. w.c. (6.3 in. w.c. to 0.9 psig) / 0 mbar (16 to 62 mbar)
CS404IR-8VD9	2 in. CL125 FF/CL150 FF Ductile Iron Low Pressure Regulator with Slam Shut UPSO/OPSO Internal Relief; 3/4 in. Port; 11 in. w.c. (6.3 in. w.c. to 0.9 psig) / 0 mbar (16 to 62 mbar)
CS800IQ-8CC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 8 to 12 in. w.c. / 20 to 30 mbar
CS800IQ-8CC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 8 to 12 in. w.c. / 20 to 30 mbar
CS800IQ-8DC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 10 to 16 in. w.c. / 25 to 40 mbar
CS800IQ-8DC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 10 to 16 in. w.c. / 25 to 40 mbar
CS800IQ-8EC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 14 to 30 in. w.c. / 35 to 75 mbar
CS800IQ-8EC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 14 to 30 in. w.c. / 35 to 75 mbar
CS800IR-8CC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 8 to 12 in. w.c. / 20 to 30 mbar
CS800IR-8CC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 8 to 12 in. w.c. / 20 to 30 mbar

Commercial/Industrial Low-Pressure Regulators (continued)

Type No.	Description
CS800IR-8DC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 10 to 16 in. w.c. / 25 to 40 mbar
CS800IR-8DC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 10 to 16 in. w.c. / 25 to 40 mbar
CS800IR-8EC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 14 to 30 in. w.c. / 35 to 75 mbar
CS800IR-8EC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 14 to 30 in. w.c. / 35 to 75 mbar
CS820IQ-8FC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 1 to 2.5 psig / 69 mbar to 0.17 bar
CS820IQ-8FC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 1 to 2.5 psig / 69 mbar to 0.17 bar
CS820IQ-8GC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 1.5 to 3.5 psig / 0.1 to 0.24 bar
CS820IQ-8GC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 1.5 to 3.5 psig / 0.1 to 0.24 bar
CS820IQ-8HC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 2.5 to 5.5 psig / 0.17 to 0.38 bar
CS820IQ-8HC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with High Capacity Internal; 1 in. Port; 2.5 to 5.5 psig / 0.17 to 0.38 bar
CS820IR-8FC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 1 to 2.5 psig / 69 mbar to 0.17 bar
CS820IR-8FC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 1 to 2.5 psig / 69 mbar to 0.17 bar
CS820IR-8GC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 1.5 to 3.5 psig / 0.1 to 0.24 bar
CS820IR-8GC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 1.5 to 3.5 psig / 0.1 to 0.24 bar
CS820IR-8HC7	1-1/2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 2.5 to 5.5 psig / 0.17 to 0.38 bar
CS820IR-8HC8	2 in. FNPT Cast Iron; Low Pressure Regulator; with Relief; 1 in. Port; 2.5 to 5.5 psig / 0.17 to 0.38 bar

Residential Regulators - 1st Stage

Type No.	Description
R122H-AAJ	1st Stage Compact Regulator; 1/4 x 1/2 in. NPT; Non-Adjustable
R122H-AAJXB	1st Stage Compact Regulator; 1/4 x 1/2 in. NPT; Non-Adjustable; Vent over Tap
R222H-BGJ	1st Stage Compact Regulator; 1/2 x 1/2 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R222H-BGK	1st Stage Compact Regulator; 1/2 x 1/2 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring
R222H-DGJ	1st Stage Compact Regulator; 3/4 x 3/4 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R222H-DGK	1st Stage Compact Regulator; 3/4 x 3/4 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring
R222H-HGJ	1st Stage Compact Regulator; POL x 1/2 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R222H-HGK	1st Stage Compact Regulator; POL x 1/2 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring
R222H-JGJ	1st Stage Compact Regulator; POL x 3/4 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R222H-JGK	1st Stage Compact Regulator; POL x 3/4 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring
R622H-BGJ	1st Stage Regulator; 1/2 x 1/2 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R622H-BGK	1st Stage Regulator; 1/2 x 1/2 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring
R622H-DGJ	1st Stage Regulator; 3/4 x 3/4 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R622H-DGK	1st Stage Regulator; 3/4 x 3/4 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring

Residential Regulators - 1st Stage (continued)

Type No.	Description
R622H-HGJ	1st Stage Regulator; POL x 1/2 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R622H-HGK	1st Stage Regulator; POL x 1/2 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring
R622H-JGJ	1st Stage Regulator; POL x 3/4 in. NPT; 8 to 12 psig / 0.55 to 0.83 bar Spring
R622H-JGK	1st Stage Regulator; POL x 3/4 in. NPT; 4 to 6 psig / 0.28 to 0.41 bar Spring

Residential Regulators - 2nd Stage

Torre Me	Description
Type No.	Description
HSRL-BFC	2nd Stage Regulator
HSRL-CFC	2nd Stage Regulator
HSRL-PFC	3/4 in. FNPT Cast Iron Angle ~ 2nd Stage UL Regulator with Relief; 3/8 in. Port; 9 to 13 in. w.c. / 22 to 32 mbar
HSRL-SFC	1 in. FNPT Cast Iron Angle ~2nd Stage UL Regulator with Relief; 3/8 in. Port; 9 to 13 in. w.c. / 22 to 32 mbar
HSR-BBCALYN	3/4 in. FNPT Regulator with Relief, 1/8 in orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 3/4 in. vent
HSR-BBGBMYN	3/4 in. FNPT Regulator with Relief, 1/8 in. orifice, 12.5 to 20 in. w.c. / 31 to 50 mbar; 1 in. vent
HSR-BCBBMYN	3/4 in. FNPT Regulator with Relief, 3/16 in. orifice, 6 to 8 in. w.c. / 15 to 20 mbar; 1 in. vent
HSR-BDCAMYN	3/4 in. FNPT Regulator with Relief, 1/4 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 3/4 in. vent
HSR-BFCAMYN	3/4 in. FNPT Regulator with Relief, 3/8 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 3/4 in. vent
HSR-BFGAMYN	3/4 in. FNPT Regulator with Relief, 3/8 in. orifice, 12.5 to 20 in. w.c. / 31 to 50 mbar, 3/4 in. vent
HSR-BFJAMYN	3/4 in. FNPT Regulator with Relief, 3/8 in. orifice, 1.25 to 2.2 psig / 86 mbar to 0.15 bar, 3/4 in. vent
HSR-BFJBMYN	3/4 in. FNPT Regulator with Relief, 3/8 in. orifice, 1.25 to 2.2 psig / 86 mbar to 0.15 bar, 1 in. vent
HSR-CBBAMYN	1 in. FNPT Regulator with Relief, 1/8 in. orifice, 6 to 8 in. w.c. / 15 to 20 mbar; 3/4 in. vent
HSR-CCCBMYN	1 in. FNPT Regulator with Relief, 3/16 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 1 in. vent
HSR-CDCBMYN	1 in. FNPT Regulator with Relief, 1/4 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 1 in. vent
HSR-CDGAMYN	1 in. FNPT Regulator with Relief, 1/4 in. orifice, 12.5 to 20 in. w.c. / 31 to 50 mbar; 3/4 in. vent
HSR-CDGBMYN	1 in. FNPT Regulator with Relief, 1/4 in. orifice, 12.5 to 20 in. w.c. / 31 to 50 mbar; 1 in. vent
HSR-CFCALYN	1 in. FNPT Regulator with Relief, 3/8 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 3/4 in. vent, 3E position
HSR-CFCAMYN	1 in. FNPT Regulator with Relief, 3/8 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 3/4 in. vent
HSR-CFGAMYN	1 in. FNPT Regulator with Relief, 3/8 in. orifice, 12.5 to 20 in. w.c. / 31 to 50 mbar; 3/4 in. vent
HSR-CFGBMYN	1 in. FNPT Regulator with Relief, 3/8 in. orifice, 12.5 to 20 in. w.c. / 31 to 50 mbar; 1 in. vent
HSR-CFJAMYN	1 in. FNPT Regulator with Relief, 3/8 in. orifice, 1.25 to 2.2 psig / 86 mbar to 0.15 bar, 3/4 in. vent
HSR-CFJBMYN	1 in. FNPT Regulator with Relief, 3/8 in. orifice, 1.25 to 2.2 psig / 86 mbar to 0.15 bar, 1 in. vent
HSR-CHBAMYN	1 in. FNPT Regulator with Relief, 1/2 in. orifice, 6 to 8 in. w.c. / 15 to 20 mbar; 3/4 in. vent
HSR-CHCALYN	1 in. FNPT Regulator with Relief, 1/2 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 3/4 in. vent, 3E position
HSR-CHCBMYN	1 in. FNPT Regulator with Relief, 1/2 in. orifice, 10 to 12.5 in. w.c. / 25 to 31 mbar; 1 in. vent

Residential Regulators - 2nd Stage (continued)

Type No.	Description
HSR-CHGBMYN	1 in. FNPT Regulator with Relief, 1/2 in. orifice,
	12.5 to 20 in. w.c. / 31 to 50 mbar; 1 in. vent 1 in. FNPT Regulator with Relief, 1/2 in. orifice,
HSR-CHHALYN	20 to 35 in. w.c. / 50 to 87 mbar; 3/4 in. vent, 3E position
HSR-CHJBMYN	1 in. FNPT Regulator with Relief, 1/2 in. orifice,
TIOIX-OHODIWITIV	1.25 to 2.2 psig / 86 mbar to 0.15 bar, 1 in. vent
HSR-PFCAMYN	3/4 in. FNPT Cast Iron Angle, Low Pressure Regulator with Relief, 3/8 in. port, 10 to 12.5 in. w.c. / 25 to 31 mbar, 3/4 in. Vent
HSR-SFCAMYN	1 in. FNPT Cast Iron Angle, Low Pressure Regulator with Relief, 3/8 in. port, 10 to 12.5 in. w.c. / 25 to 31 mbar, 3/4 in. Vent
R222-BAF	2nd Stage Compact Regulator; 1/2 x 1/2 in. NPT; 9.5 to 13 in. w.c. Spring
R222-BAFXA	2nd Stage Compact Regulator; 1/2 x 1/2 in NPT; 9.5 to 13 in. w.c. / 24 to 32 mbar Spring; Vent over Outlet
R622-BCC	2nd Stage Regulator; 1/2 x 1/2 in. NPT; 8 to 10 in. w.c. / 20 to 25 mbar Spring
R622-BCF	2nd Stage Regulator; 1/2 x 1/2 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R622-BCFXA	2nd Stage Regulator; 1/2 x 1/2 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Outlet
R622-BCG	2nd Stage Regulator; 1/2 x 1/2 in. NPT; 13 to 20 in. w.c. / 32 to 50 mbar Spring
R622-BCMXB	2nd Stage Regulator; 1/2 x 1/2 in. NPT; 20 to 35 in. w.c. / 50 to 87 mbar Spring
R622-CFF	2nd Stage Regulator; 1/2 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R622-CFFXA	2nd Stage Regulator; 1/2 x 3/4 inch NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Outlet
R622-CFFXB	2nd Stage Regulator; 1/2 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Taps
R622-CFG	2nd Stage Regulator; 1/2 x 3/4 in. NPT; 13 to 20 in. w.c. / 32 to 50 mbar Spring
R622-CFGXA	2nd Stage Regulator; 1/2 x 3/4 in. NPT; 13 to 20 in. w.c. / 32 to 50 mbar Spring; Vent over Outlet
R622-DFF	2nd Stage Regulator; 3/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R622-DFFXB	2nd Stage Regulator; 3/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Outlet
R622-DFG	2nd Stage Regulator; 3/4 x 3/4 in. NPT; 13 to 20 in. w.c. / 32 to 50 mbar Spring
R642-DFF	2nd Stage Regulator; Side Outlet; 3/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R642-DFFXA	2nd Stage Regulator; Side Outlet; 3/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Outlet
R652-CFF	2nd Stage Regulator; Backmount; 1/2 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R652-DFF	2nd Stage Regulator; Backmount; 3/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring

Residential Regulators - 2 psi / 0.14 bar Outlet

Type No.	Description
R622E-BCH	2nd Stage Regulator; 1/2 x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R622E-DCH	2nd Stage Regulator; 3/4 x 3/4 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R652E-DFH	2nd Stage Regulator; Backmount; 3/4 x 3/4 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring

Residential Regulators - Integral Two-Stage

Type No.	Description
R232A-BBF	Compact Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 9.5 to 13 in. w.c. / 24 to 32 mbar Spring
R232A-BBFXA	Compact Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 9.5 to 13 in. w.c. / 24 to 32 mbar Spring; Vent over Tap
R232A-HBF	Compact Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 9.5 to 13 in. w.c. / 24 to 32 mbar Spring
R232A-HBFXA	Compact Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 9.5 to 13 in. w.c. / 24 to 32 mbar Spring; Vent over Tap
R632A-BCF	Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 9 to 13 in. w.c. / 24 to 32 mbar Spring
R632A-BCFXA	Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 9 to 13 in. w.c. / 24 to 32 mbar Spring; Vent over Taps
R632A-BCG	Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 13 to 20 in. w.c. / 32 to 50 mbar Spring
R632A-CFF	Integral 2nd Stage Regulator; 1/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R632A-CFFXA	Integral 2nd Stage Regulator; 1/4 x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Taps
R632A-CFG	Integral 2nd Stage Regulator; 1/4 x 3/4 in. NPT; 13 to 20 in. w.c. / 32 to 50 mbar Spring
R632A-HCF	Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R632A-HCFXA	Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Taps
R632A-JFF	Integral 2nd Stage Regulator; POL x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring
R632A-JFFXA	Integral 2nd Stage Regulator; POL x 3/4 in. NPT; 9 to 13 in. w.c. / 22 to 32 mbar Spring; Vent over Taps

Residential Regulators - Integral Two-Stage, 2 psi / 0.14 bar Outlet

Type No.	Description
R232E-BBH	Compact Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R232E-BBHXA	Compact Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring; Vent over Tap
R232E-HBH	Compact Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R232E-HBHXA	Compact integral 2nd Stage Regulator, Pol X 1/2 in. NPT, 1 to 2.2 psig / 69 mbar to 0.15 bar Spring, Vent Over Tap
R632E-BCH	Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R632E-BCHXA	Integral 2nd Stage Regulator; 1/4 x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring; Vent over Taps
R632E-CFH	Integral 2nd Stage Regulator; 1/4 x 3/4 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R632E-CFHXA	Integral 2nd Stage Regulator; 1/4 x 3/4 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring; Vent over Taps
R632E-HCH	Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R632E-HCHXA	Integral 2nd Stage Regulator; POL x 1/2 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring; Vent over Taps
R632E-JFH	Integral 2nd Stage Regulator; POL x 3/4 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring
R632E-JFHXA	Integral 2nd Stage Regulator; POL x 3/4 in. NPT; 1 to 2.2 psig / 69 mbar to 0.15 bar Spring; Vent over Taps

Backpressure Regulators/Relief

Type No.	Description
1805-15	3/4 in. FNPT Cast Iron; Relief Valve with Brass cap;
1805-16	5 to 35 psi / 0.34 to 2.4 bar 3/4 in. FNPT Cast Iron; Relief Valve with Brass cap;
	10 to 60 psi / 0.69 to 4.1 bar 3/4 in.FNPT Cast Iron; Relief Valve with Brass cap;
1805-17	20 to 125 psi / 1.4 to 8.6 bar 1 in. FNPT Cast Iron; Relief Valve with Brass cap;
1805-18P	5 to 35 psi / 0.34 to 2.4 bar 1 in. FNPT Cast Iron; Relief Valve with Brass cap;
1805-19P	10 to 60 psi / 0.69 to 4.1 bar
1805-20	1 in. FNPT Cast Iron; Relief Valve with Brass cap; 20 to 125 psi / 1.4 to 8.6 bar
1805-31	1-1/2 in. FNPT Cast Iron; Relief Valve with Brass cap; 5 to 20 psi / 0.34 to 1.4 bar
1805-32	1-1/2 in. FNPT Cast Iron; Relief Valve with Brass cap; 10 to 50 psi / 0.69 to 3.4 bar
1805-33	1-1/2 in. FNPT Cast Iron; Relief Valve with Brass cap; 35 to 125 psi / 2.4 to 8.6 bar
1805-34	3/4 in. FNPT Cast Iron; Relief Valve; 5 to 35 psi / 0.34 to 2.4 bar
1805-51P	2 in. FNPT Cast Iron; Relief Valve with Brass cap; 5 to 20 psi / 0.34 to 1.4 bar
1805-52P	2 in. FNPT Cast Iron; Relief Valve with Brass cap;
1805-53	10 to 50 psi / 0.69 to 3.4 bar 2 in. FNPT Cast Iron; Relief Valve with Brass cap;
1808-40	35 to 125 psi / 2.4 to 8.6 bar 2 in. FNPT Cast Iron; Back Pressure/Relief Valve;
1808-50	3 to 18 psi / 0.21 to 1.2 bar; Type 6358 Pilot 2 in. FNPT Cast Iron; Back Pressure/Relief Valve;
	3 to 18 psi / 0.21 to 1.2 bar; Type 6358B Pilot 2 in. FNPT Cast Iron; Back Pressure/Relief Valve;
1808-51	15 to 40 psi / 1 to 2.8 bar; Type 6358B Pilot 2 in. FNPT Cast Iron; Back Pressure/Relief Valve;
1808-52	35 to 125 psi / 2.4 to 8.6 bar; Type 6358B Pilot 2 in. FNPT Cast Iron; Back Pressure/ Relief Valve; Angle body;
1808A-60	3 to 18 psi / 0.21 to 1.2 bar; Type 6358B Pilot
1808A-61	2 in. FNPT Cast Iron; Back Pressure/ Relief Valve; Angle body; 15 to 40 psi / 1 to 2.8 bar; Type 6358B Pilot
1808A-62	2 in. FNPT Cast Iron; Back Pressure/ Relief Valve; Angle body; 35 to 125 psi / 2.4 to 8.6 bar; Type 6358B Pilot
289A-1	1/4 in. FNPT Zinc-plated Carbon; Relief Valve; 3 to 13 psi / 0.21 to 0.9 bar $$
289A-2	1/4 in. FNPT Zinc-plated Carbon; Relief Valve; 11 to 22 psi / 0.76 to 1.5 bar
289H-1	2 in. FNPT Cast Iron; Relief Valve; 7 to 18 in. w.c. / 17 to 45 mbar
289H-2	2 in. FNPT Cast Iron; Relief Valve; 1/2 to 2-1/4 psi / 34 mbar to 0.16 bar
289H-3	2 in. FNPT Cast Iron; Relief Valve; 1-3/4 to 7 psi / 0.12 to 0.48 bar
289H-4	2 in. FNPT Cast Iron; Relief Valve; 4 to 10 psi / 0.28 to 0.69 bar
289H-41	1 in. FNPT Aluminum; Relief Valve; 1 to 4-1/2 psi / 69 mbar to 0.31 bar
289H-42	1 in. FNPT Aluminum; Relief Valve; 4 to 15 psi / 0.28 to 1 bar
289H-43	1 in. FNPT Aluminum; Relief Valve; 10 to 20 psi / 0.69 to 1.4 bar
289H-49	1 in. FNPT Aluminum; Relief Valve; 15 to 50 psi / 1 to 3.4 bar
289H-49V	1 in. FNPT Aluminum; Relief Valve; 15 to 50 psi / 1 to 3.4 bar with Fluorocarbon (FKM) and Brass Trim
289HH-1	1 in. FNPT Aluminum; Relief Valve; 45 to 75 psi / 3.1 to 5.2 bar
289L-21	1 in. FNPT Aluminum; Relief Valve; 12 to 40 in. w.c. / 30 to 100 mbar

Type No.	Description
289L-22	1 in. FNPT Aluminum; Relief Valve; 10 to 18 in. w.c. / 25 to 45 mbar
289L-24	3/4 in. FNPT Aluminum; Relief Valve; 10 to 18 in. w.c. / 25 to 45 mbar
289L-26	3/4 in. FNPT Aluminum; Relief Valve; 12 to 40 in. w.c. / 30 to 100 mbar
630R-13	2 in. FNPT Cast Iron, Relief Valve, 20 to 35 psi / 1.4 to 2.4 bar
MR98H-100	2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 50 to 100 psig / 3.4 to 6.9 bar, Trim 6
MR98H-108	1-1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 80 to 170 psig / 5.5 to 11.7 bar, Trim 6
MR98H-109	1-1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 80 to 170 psig / 5.5 to 11.7 bar, Trim 1
MR98H-112	2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 75 to 170 psig / 5.2 to 11.7 bar, Trim 6
MR98H-13	1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 25 to 75 psig/ 1.7 to 5.2 bar, Trim 6
MR98H-14	1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 70 to 140 psig / 4.8 to 9.7 bar, Trim 6
MR98H-15	1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 130 to 200 psig / 9 to 13.8 bar, Trim 6
MR98H-17	1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 25 to 75 psig / 1.7 to 5.2 bar, Trim 1
MR98H-18	1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 70 to 140 psig / 4.8 to 9.7 bar, Trim 1
MR98H-20	3/4 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 15 to 35 psig / 1 to 2.4 bar, Trim 6
MR98H-21	3/4 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 25 to 75 psig / 1.7 to 5.2 bar, Trim 6
MR98H-22	3/4 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 70 to 140 psig / 4.8 to 9.7 bar, Trim 6
MR98H-25	3/4 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 25 to 75 psig / 1.7 to 5.2 bar, Trim 1
MR98H-29	1 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 25 to 75 psig / 1.7 to 5.2 bar, Trim 6
MR98H-30	1 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 70 to 140 psig / 4.8 to 9.7 bar, Trim 6
MR98H-31	1 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 130 to 200 psig / 9 to 13.8 bar, Trim 6
MR98H-34	1 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 70 to 140 psig / 4.8 to 9.7 bar, Trim 1
MR98H-35	1 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 130 to 200 psig / 9 to 13.8 bar, Trim 1
MR98H-63	1 in. FNPT WCC, Relief Valve/Backpressure Regulator, 130 to 200 psig / 9 to 13.8 bar, Trim 6
MR98H-65	1 in. FNPT WCC, Relief Valve/Backpressure Regulator, 25 to 75 psig / 1.7 to 5.2 bar, Trim 1
MR98H-77	2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 5 to 35 psig / 0.34 to 2.4 bar, Trim 1
MR98H-84	1-1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 20 to 65 psig / 1.4 to 4.5 bar, Trim 6
MR98H-91	2 in. FNPT WCC, Relief Valve/Backpressure Regulator, 20 to 65 psig / 1.4 to 4.5 bar, Trim 1
MR98H-97	1-1/2 in. FNPT Cast Iron, Relief Valve/Backpressure Regulator, 50 to 100 psig / 3.4 to 6.9 bar, Trim 1
MR98HH-12	1/2 in. FNPT WCC, High Pressure Relief Valve, 150 to 375 psig / 10.3 to 25.9 bar, Trim 1
MR98HH-15	3/4 in. FNPT WCC, High Pressure Relief Valve, 150 to 375 psig / 10.3 to 25.9 bar, Trim 6
MR98HH-19	1 in. FNPT WCC, High Pressure Relief Valve, 150 to 375 psig / 10.3 to 25.9 bar, Trim 6
MR98HH-20	1 in. FNPT WCC, High Pressure Relief Valve, 150 to 375 psig / 10.3 to 25.9 bar, Trim 1

BS&T - Relief Valves

Type No.	Description
63EGLP-250	4 in. CL300 RF Flange; UL Listed Multipilot Relief; 250 psig / 17.2 bar
63EGLP-EB1	4 in. CL300 RF Flange; Multipilot Relief; 85 to 140 psig / 5.9 to 9.7 bar
63EGLP-EB2	4 in. CL300 RF Flange; Multipilot Relief; 130 to 200 psig / 9 to 13.8 bar
63EGLP-EB3	4 in. CL300 RF Flange; Multipilot Relief; 180 to 350 psig / 12.4 to 24.1 bar
63EGLP-EBH	4 in. CL300 RF Flange; Multipilot Relief; 250 to 375 psig / 17.2 to 25.9 bar
H110-250	1/4 in. NPT Relief Valve; UL Listed; 250 psig / 17.2 bar setpoint
H110-312	1/4 in. NPT Relief Valve; UL Listed; 312 psig / 21.5 bar setpoint
H120-120	1/4 in. NPT Relief Valve; 120 psig / 8.3 bar setpoint
H120-145	1/4 in. NPT Relief Valve; 145 psig / 10 bar setpoint
H120-275	1/4 in. NPT Relief Valve; 275 psig / 19 bar setpoint
H120-30	1/4 in. NPT Relief Valve; 30 psig / 2.1 bar setpoint
H120-40	1/4 in. NPT Relief Valve; 40 psig / 2.8 bar setpoint
H120-60	1/4 in. NPT Relief Valve; 60 psig / 4.1 bar setpoint
H123	1/4 in. NPT Hydrostatic Relief Valve; UL Listed; 375 psig / 25.9 bar setpoint
H124	1/4 in. NPT Hydrostatic Relief Valve; UL Listed; 450 psig / 31 bar setpoint
H125-250	1/2 in. NPT Relief Valve; 250 psig / 17.2 bar setpoint
H135-312	1/2 in. NPT Relief Valve; 312 psig / 21.5 bar setpoint
H144 H148	1/2 in. NPT Hydrostatic Relief Valve; UL Listed; 450 psig / 31 bar setpoint
H150-250	1/2 in. NPT Hydrostatic Relief Valve; UL Listed; 375 psig / 25.9 bar setpoint 3/4 in. NPT Relief Valve; 250 psig / 17.2 bar setpoint
H160-312	3/4 in. NPT Relief Valve; 312 psig / 17.2 bar setpoint
H173	3/4 in. NPT Hydrostatic Relief Valve; UL Listed; 375 psig / 25.9 bar setpoint
H174	3/4 in. NPT Hydrostatic Relief Valve; UL Listed; 450 psig / 31 bar setpoint
H185-250	3/4 in. NPT Relief Valve; UL Listed; 250 psig / 17.2 bar setpoint
H185-275	3/4 in. NPT Relief Valve; UL Listed; 275 psig / 19 bar setpoint
H185-312	3/4 in. NPT Relief Valve; UL Listed; 312 psig / 21.5 bar setpoint
H284-125	3 x 2 in. NPT Brass Relief Valve; Set at 125 psig / 8.6 bar
H284-156	3 x 2 in. NPT Brass Relief Valve; Set at 156 psig / 10.8 bar
H284-225	3 x 2 in. NPT Brass Relief Valve; Set at 225 psig / 15.5 bar
H284-250	3 x 2 in. NPT Brass Relief Valve; Set at 250 psig / 17.2 bar
H284-275	3 x 2 in. NPT Brass Relief Valve; Set at 275 psig / 19 bar
H284-312	3 x 2 in. NPT Brass Relief Valve; Set at 312 psig / 21.5 bar
H5114-250	3 x 2 in. NPT Stainless Steel Relief Valve; Set at 250 psig / 17.2 bar
H5114-265	3 x 2 in. NPT Stainless Steel Relief Valve; Set at 265 psig / 18.3 bar
H5114-275	3 x 2 in. NPT Stainless Steel Relief Valve; Set at 275 psig / 19 bar
H5118-250	3 X 2 in. SST Relief Valve, UL, Nitrile (NBR), Set at 250 psig / 17.2 bar
H5118-265	3 X 2 in. SST Relief Valve, UL, Nitrile (NBR), Set at 265 psi / 18.3 bar
H722-125	2 in. NPT Relief Valve; Set at 125 psi / 8.6 bar; Nitrile (NBR) Trim
H722-156	2 in. NPT Relief Valve; Set at 156 psi / 10.8 bar; Nitrile (NBR) Trim
H722-250	2 in. NPT Relief Valve; Set at 250 psi / 17.2 bar; Nitrile (NBR) Trim
H722-265	2 in. NPT Relief Valve; Set at 265 psi / 18.3 bar; Nitrile (NBR) Trim
H722-275	2 in. NPT Relief Valve; Set at 275 psi / 19 bar; Nitrile (NBR) Trim
H722-312	2 in. NPT Relief Valve; Set at 312 psi / 21.5 bar; Nitrile (NBR) Trim
H733-125	3 in. Relief Valve; SST; 125 psi / 8.6 bar set
H733-156	3 in. Relief Valve; SST; 156 psi / 10.8 bar set
H733-250	3 in. Relief Valve; SST; 250 psi / 17.2 bar set
H733-265	3 in. Relief Valve; SST; 265 psi / 18.3 bar set
H733-275	3 in. Relief Valve; SST; 275 psi / 19.0 bar set
H733-312	3 in. Relief Valve; SST; 312 psi / 21.5 bar set
	3 in. Relief Valve; ASME CL300 RF Flange;
H733F3-250	250 psi / 21.5 bar / 17.2 bar set; Nitrile (NBR)
H733F3-265	3 in. Relief Valve; ASME CL300 RF Flange,
	265 psi / 18.3 bar set, Nitrile (NBR)

Type No.	Description
H8114-1	2 in. NPT SST Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring
H8114-2	2 in. NPT SST Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring
H8114-3	2 in. NPT SST Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring
H8114-4	2 in. NPT SST Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring
H8114-5	2 in. NPT SST Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring
	2 in. NPT SST Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar
H8114E-1	Spring; with EPDM Trim
H8114E-2	2 in. NPT SST Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with EPDM Trim
H8114E-3	2 in. NPT SST Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with EPDM Trim
H8114E-4	2 in. NPT SST Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with EPDM Trim
H8114E-5	2 in. NPT SST Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with EPDM Trim
H8114K-1	2 in. NPT SST Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with FFKM Trim
H8114K-2	2 in. NPT SST Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with FFKM Trim
H8114K-3	2 in. NPT SST Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with FFKM Trim
H8114K-4	2 in. NPT SST Relief Valve; Non-UL; 276-330 psig / 19 to 22.8 bar Spring; with FFKM Trim
H8114K-5	2 in. NPT SST Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with FFKM Trim
H8114N-1	2 in. NPT SST Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with Neoprene (CR) Trim
H8114N-2	2 in. NPT SST Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with Neoprene (CR) Trim
H8114N-3	2 in. NPT SST Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with Neoprene (CR) Trim
H8114N-4	2 in. NPT SST Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with Neoprene (CR) Trim
H8114N-5	2 in. NPT SST Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with Neoprene (CR) Trim
H8114V-1	2 in. NPT SST Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with Fluorocarbon (FKM) Trim
H8114V-2	2 in. NPT SST Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with Fluorocarbon (FKM) Trim
H8114V-3	2 in. NPT SST Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with Fluorocarbon (FKM) Trim
H8114V-4	2 in. NPT SST Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with Fluorocarbon (FKM) Trim
H8114V-5	2 in. NPT SST Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with Fluorocarbon (FKM) Trim
H8118-3	3 X 2 in. SST Relief Valve, Nitrile (NBR), 201 to 275 psig / 13.9 to 19 bar set
H8118N-3	3 X 2 in. SST Relief Valve, Neoprene (CR), 201 to 275 psig / 13.9 to 19 bar set
H822-1	2 in. NPT Relief Valve; 100 to 150 psi / 6.9 to 10.3 bar Spring Range; Nitrile (NBR) Trim
H822-2	2 in. NPT Relief Valve; 151 to 250 psi / 10.4 to 17.2 bar Spring Range; Nitrile (NBR) Trim
H822-3	2 in. NPT Relief Valve; 251 to 400 psi / 17.3 to 27.6 bar Spring Range; Nitrile (NBR) Trim
H822E-1	2 in. NPT Relief Valve; 100 to 150 psi / 6.9 to 10.3 bar Spring Range; EPDM Trim
H822E-2	2 in. NPT Relief Valve; 151 to 250 psi / 10.4 to 17.2 bar Spring Range; EPDM Trim
H822E-3	2 in. NPT Relief Valve; 251 to 400 psi / 17.3 to 27.6 bar Spring Range; EPDM Trim
H822K-1	2 in. NPT Relief Valve; 100 to 150 psi / 6.9 to 10.3 bar Spring Range; Kalrez® Trim
H822K-2	2 in. NPT Relief Valve; 151 to 250 psi / 10.4 to 17.2 bar Spring Range; Kalrez® Trim

BS&T - Relief Valves (continued)

Type No.	Description
Type No.	
H822K-3	2 in. NPT Relief Valve; 251 to 400 psi / 17.3 to 27.6 bar Spring Range; Kalrez® Trim
H822N-1	2 in. NPT Relief Valve; 100 to 150 psig / 6.9 to 10.3 bar Spring Range; Neoprene (CR) Trim
H822N-2	2 in. NPT Relief Valve; 151 to 250 psig / 10.4 to 17.2 bar Spring Range; Neoprene (CR) Trim
H822N-3	2 in. NPT Relief Valve; 251 to 400 psig / 17.3 to 27.6 bar Spring Range; Neoprene (CR) Trim
H822V-1	2 in. NPT Relief Valve; 100 to 150 psig / 6.9 to 10.3 bar Spring Range; Viton® Trim
H822V-2	2 in. NPT Relief Valve; 151 to 250 psig / 10.4 to 17.2 bar Spring Range; Viton® Trim
H822V-3	2 in. NPT Relief Valve; 251 to 400 psig / 17.3 to 27.6 bar Spring Range; Viton® Trim
H833-1	3 in. Relief Valve, Non-UL; 100 to 149 psi / 6.9 to 10.3 bar, Nitrile (NBR)
H833-2	3 in. Relief Valve, Non-UL; 150 to 200 psi / 10.3 to 13.8 bar; Nitrile (NBR)
H833-3	3 in. Relief Valve, Non-UL; 201 to 275 psi / 13.9 to 19 bar; Nitrile (NBR)
H833-4	3 in. Relief Valve, Non-UL; 276 to 330 psi / 19 to 22.8 bar; Nitrile (NBR)
H833-5	3 in. Relief Valve, Non-UL; 331 to 400 psi / 22.8 to 27.6 bar; Nitrile (NBR)
H833E-1	3 in. Relief Valve, Non-UL; 100 to 149 psi / 6.9 to 10.3 bar; Ethylene Propylene
H833E-2	3 in. Relief Valve, Non-UL; 150 to 200 psi / 10.3 to 13.8 bar; Ethylene Propylene
H833E-3	3 in. Relief Valve, Non-UL; 201 to 275 psi / 13.9 to 19 bar; Ethylene Propylene
H833E-4	3 in. Relief Valve, Non-UL; 276 to 300 psi / 19 to 20.7 bar; Ethylene Propylene
H833E-5	3 in. Relief Valve, Non-UL; 331 to 400 psi / 22.8 to 27.6 bar; Ethylene Propylene
H833EF3-3	3 in. Relief Valve, Non-UL; CL300 RF Flange, 201 to 275 psi / 13.9 to 19 bar range, Ethylene Propylene
H833F3-3	3 in. Relief Valve, Non-UL;CL300 RF Flange, 201 to 275 psi / 13.9 to 19 bar range, Nitrile (NBR)
H833K-1	3 in. Relief Valve, Non-UL; 100 to 149 psi / 6.9 to 10.3 bar, Kalrez®
H833K-2	3 in. Relief Valve, Non-UL; 150 to 200 psi / 10.3 to 13.8 bar, Kalrez®
H833K-3	3 in. Relief Valve, Non-UL; 201 to 275 psi / 13.9 to 19 bar, Kalrez®
H833K-4	3 in. Relief Valve, Non-UL; 276 to 330 psi / 19 to 22.8 bar, Kalrez®
H833K-5	3 in. Relief Valve, Non-UL; 331 to 400 psi / 22.8 to 27.6 bar, Kalrez®
H833KF3-3	3 in. Relief Valve, Non-UL; CL300 RF Flange, 201 to 275 psi / 13.9 to 19 bar range, Kalrez®
H833N-1	3 in. Relief Valve, Non-UL; 100 to 149 psi / 6.9 to 10.3 bar, Neoprene (CR)
H833N-2	3 in. Relief Valve, Non-UL; 150 to 200 psi / 10.3 to 13.8 bar, Neoprene (CR)
H833N-3	3 in. Relief Valve, Non-UL; 201 to 275 psi / 13.9 to 19 bar; Neoprene (CR)
H833N-4	3 in. Relief Valve, Non-UL; 276 to 330 psi / 19 to 22.8 bar; Neoprene (CR)
H833N-5	3 in. Relief Valve, Non-UL, 331 to 400 psi / 22.8 to 27.6 bar, Neoprene (CR)
H833NF3-3	3 in. Relief Valve; CL300 RF Flange; 201 to 275 psi / 13.9 to 19 bar range; Non-UL; Neoprene (CR)
H833V-1	3 in. Relief Valve; Non-UL; 100 to 149 psi / 6.9 to 10.3 bar; Fluorocarbon (FKM)
H833V-2	3 in. Relief Valve; Non-UL; 150 to 200 psi / 10.3 to 13.8 bar; Fluorocarbon (FKM)
H833V-3	3 in. Relief Valve; Non-UL; 201 to 275 psi / 13.9 to 19 bar; Fluorocarbon (FKM)
H833V-4	3 in. Relief Valve; Non-UL; 276 to 330 psi / 19 to 22.8 bar; Fluorocarbon (FKM)
H833V-5	3 in. Relief Valve, Non-UL; 331 to 400 psi / 22.8 to 27.6 bar; Fluorocarbon (FKM)
H833VF3-3	3 in. Relief Valve; CL300 RF Flange; 201 to 275 psi / 13.9 to 19 bar Range; Non-UL; Fluorocarbon (FKM)
H884-1	2 in. NPT Brass Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring
H884-2	2 in. NPT Brass Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring
H884-3	2 in. NPT Brass Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring
H884-4	2 in. NPT Brass Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring
H884-5	2 in. NPT Brass Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring

Type No.	Description
H884E-1	2 in. NPT Brass Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with EPDM Trim
H884E-2	2 in. NPT Brass Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with EPDM Trim
H884E-3	2 in. NPT Brass Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with EPDM Trim
H884E-4	2 in. NPT Brass Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with EPDM Trim
H884E-5	2 in. NPT Brass Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with EPDM Trim
H884K-1	2 in. NPT Brass Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with FFKM Trim
H884K-2	2 in. NPT Brass Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with FFKM Trim
H884K-3	2 in. NPT Brass Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with FFKM Trim
H884K-4	2 in. NPT Brass Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with FFKM Trim
H884K-5	2 in. NPT Brass Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with FFKM Trim
H884N-1	2 in. NPT Brass Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with Neoprene (CR) Trim
H884N-2	2 in. NPT Brass Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with Neoprene (CR) Trim
H884N-3	2 in. NPT Brass Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with Neoprene (CR) Trim
H884N-4	2 in. NPT Brass Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with Neoprene (CR) Trim
H884N-5	2 in. NPT Brass Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with Neoprene (CR) Trim
H884V-1	2 in. NPT Brass Relief Valve; Non-UL; 100 to 149 psig / 6.9 to 10.3 bar Spring; with Fluorocarbon (FKM) Trim
H884V-2	2 in. NPT Brass Relief Valve; Non-UL; 150 to 200 psig / 10.3 to 13.8 bar Spring; with Fluorocarbon (FKM) Trim
H884V-3	2 in. NPT Brass Relief Valve; Non-UL; 201 to 275 psig / 13.9 to 19 bar Spring; with Fluorocarbon (FKM) Trim
H884V-4	2 in. NPT Brass Relief Valve; Non-UL; 276 to 330 psig / 19 to 22.8 bar Spring; with Fluorocarbon (FKM) Trim
H884V-5	2 in. NPT Brass Relief Valve; Non-UL; 331 to 400 psig / 22.8 to 27.6 bar Spring; with Fluorocarbon (FKM) Trim

BS&T Bypass and Backpressure Valves

Type No.	Description
N100-16-1	2 in. NPT Elbow Bypass Valve; 25 to 75 psid / 1.7 to 5.2 bar d Spring
N100-16-2	2 in. NPT Elbow Bypass Valve; 50 to 150 psid / 3.4 to 10.3 bar d Spring
N100A-08-1	1 in. NPT Elbow Bypass Valve; 25 to 75 psid / 1.7 to 5.2 bar d Spring
N100A-08-2	1 in. NPT Elbow Bypass Valve; 50 to 150 psid / 3.4 to 10.3 bar d Spring
N100A-10-1	1-1/4 in. NPT Elbow Bypass Valve; 25 to 75 psid / 1.7 to 5.2 bar d Spring
N100A-10-2	1-1/4 in. NPT Elbow Bypass Valve; 50 to 150 psid / 3.4 to 10.3 bar d Spring
N100A-12-1	1-1/2 in. NPT Elbow Bypass Valve; 25 to 75 psid / 1.7 to 5.2 bar d Spring
N100A-12-2	1-1/2 in. NPT Elbow Bypass Valve; 50 to 150 psid / 3.4 to 10.3 bar d Spring
N110-06-1	3/4 in. NPT Straight Bypass Valve; 25 to 75 psid / 1.7 to 5.2 bar d Spring
N110-06-2	3/4 in. NPT Straight Bypass Valve; 50 to 150 psid / 3.4 to 10.3 bar d Spring
N110-08-1	1 in. NPT Straight Bypass Valve; 25 to 75 psid / 1.7 to 5.2 bar d Spring
N110-08-2	1 in. NPT Straight Bypass Valve; 50 to 150 psid / 3.4 to 10.3 bar d Spring
N120-06-3	3/4 in. NPT Straight Backpressure Valve; 10 to 20 psid / 0.69 to 1.4 bar d Spring
N120-08-3	1 in. NPT Straight Backpressure Valve; 10 to 20 psid / 0.69 to 1.4 bar d Spring

BS&T Internal Valves

Type No.	Description
C403-24-15	3 in. Flanged Internal Valve; Double Flange Body; Legacy Style; 150 GPM / 568 I/min Spring
C403-24-20	3 in. Flanged Internal Valve; Double Flange Body; Legacy Style; 200 GPM / 757 I/min Spring
C403-24-25	3 in. Flanged Internal Valve; Double Flange Body; Legacy Style; 250 GPM / 946 I/min Spring
C403-24-40	3 in. Flanged Internal Valve; Double Flange Body; Legacy Style; 400 GPM / 1514 l/min Spring
C403-24-50	3 in. Flanged Internal Valve; Double Flange Body; Legacy Style; 500 GPM / 1893 l/min Spring
C404-24-15	3 in. Flanged Internal Valve; Single Flange Body; Legacy Style; 150 GPM / 568 I/min Spring
C404-24-20	3 in. Flanged Internal Valve; Single Flange Body; Legacy Style; 200 GPM / 757 I/min Spring
C404-24-25	3 in. Flanged Internal Valve; Single Flange Body; Legacy Style; 250 GPM / 946 I/min Spring
C404-24-40	3 in. Flanged Internal Valve; Single Flange Body; Legacy Style; 400 GPM / 1514 l/min Spring
C404-24-50	3 in. Flanged Internal Valve; Single Flange Body; Legacy Style; 500 GPM / 1893 l/min Spring
C404-32-100	4 in. Flanged Internal Valve; 1000 GPM / 3785 I/min Spring
C404-32-34	4 in. Flanged Internal Valve; 340 GPM / 1287 I/min Spring
C404-32-40	4 in. Flanged Internal Valve; 400 GPM / 1514 I/min Spring
C404-32-60	4 in. Flanged Internal Valve; 600 GPM / 2271 I/min Spring
C404-32-80	4 in. Flanged Internal Valve; 800 GPM / 3028 I/min Spring
C404A32-100	4 in. Flanged Internal Valve; 1000 GPM / 3785 I/min Spring; with Type P614 Actuator
C404A32-34	4 in. Flanged Internal Valve; 340 GPM / 1287 I/min Spring; with Type P614 Actuator
C404A32-40	4 in. Flanged Internal Valve; 400 GPM / 1514 I/minSpring; with Type P614 Actuator
C404A32-60	4 in. Flanged Internal Valve; 600 GPM / 2271 I/min Spring; with Type P614 Actuator
C404A32-80	4 in. Flanged Internal Valve; 800 GPM / 3028 l/min Spring; with Type P614 Actuator
C404FA32-10	4 in. Flanged Internal Valve; France; Type P614 Air Actuator; 1000 GPM / 3785 I/min Spring
C404M32-100	4 in. Flanged Internal Valve; 1000 GPM / 3785 l/min Spring; with Type P313 Operating Lever
C404M32-34	4 in. Flanged Internal Valve; 340 GPM / 1287 I/min Spring; with Type P313 Operating Lever
C404M32-40	4 in. Flanged Internal Valve; 400 GPM / 1514 I/min Spring; with Type P313 Operating Lever
C404M32-60	4 in. Flanged Internal Valve; 600 GPM / 2271 I/min Spring; with Type P313 Operating Lever
C404M32-80	4 in. Flanged Internal Valve; 800 GPM / 3028 I/min Spring; with Type P313 Operating Lever
C407-10-04	1-1/4 in. NPT Internal Valve, Straight-Through Body, 40 GPM / 151 I/min Spring
C407-10-05	1-1/4 in. NPT Internal Valve; Straight-Through Body; 50 GPM / 189 I/min Spring
C407-10-08	1-1/4 in. NPT Internal Valve; Straight-Through Body; 80 GPM / 303 I/min Spring
C407M10-04	1-1/4 in. NPT Internal Valve with Type P341 Remote Release, 40 GPM / 151 I/min Spring
C407M10-05	1-1/4 in. NPT Internal Valve with Type P341 Remote Release; 50 GPM / 189 I/min Spring
C407M10-08	1-1/4 in. NPT Internal Valve with Type P341 Remote Release; 80 GPM / 303 I/min Spring

BS&T - Internal Valves (continued)

Type No.	Description
C471-16-10	2 in. NPT Internal Valve; Tee Body; 105 GPM / 397 I/min Spring
C471-16-15	2 in. NPT Internal Valve; Tee Body; 150 GPM / 568 l/min Spring
C471-16-25	2 in. NPT Internal Valve; Tee Body; 250 GPM / 946 I/min Spring
C471-24-16	3 in. NPT Internal Valve; Tee Body; 160 GPM / 606 l/min Spring
C471-24-26	3 in. NPT Internal Valve; Tee Body; 265 GPM / 1003 l/min Spring
C471-24-37	3 in. NPT Internal Valve; Tee Body; 375 GPM / 1419 I/min Spring
C471-24-46	3 in. NPT Internal Valve; Tee Body; 460 GPM / 1741 I/min Spring
C471M-16-15	2 in. NPT Internal Valve; Tee Body; 150 GPM / 568 l/min Spring; with Type P340 Latch
C471M-16-25	2 in. NPT Internal Valve; Tee Body; 250 GPM / 946 I/min Spring; with Type P340 Latch
C471M-24-37	3 in. NPT Internal Valve; Tee Body; 375 GPM / 1419 I/min Spring; with Type P340 Latch
C477-16-10	2 in. NPT Internal Valve; Straight-Through Body; 105 GPM/ 397 I/min Spring
C477-16-15	2 in. NPT Internal Valve; Straight-Through Body; 150 GPM / 568 I/min Spring
C477-16-25	2 in. NPT Internal Valve; Straight-Through Body; 250 GPM / 946 I/min Spring
C477-24-16	3 in. NPT Internal Valve; Straight-Through Body; 160 GPM / 606 I/min Spring
C477-24-26	3 in. NPT Internal Valve; Straight-Through Body; 265 GPM / 1003 l/min Spring
C477-24-37	3 in. NPT Internal Valve; Straight-Through Body; 375 GPM / 1419 I/min Spring
C477-24-46	3 in. NPT Internal Valve; Straight-Through Body; 460 GPM / 1741 I/min Spring
C477M-16-10	2 in. NPT Internal Valve; Straight-Through Body; 105 GPM / 397 I/min Spring; with Type P340 Latch
C477M-16-25	2 in. NPT Internal Valve; Straight-Through Body; 250 GPM / 946 I/min Spring; with Type P340 Latch
C477M-24-16	3 in. NPT Internal Valve; Straight-Through Body; 160 GPM / 606 I/min Spring; with Type P340 Latch
C477M-24-26	3 in. NPT Internal Valve; Straight-Through Body; 265 GPM / 1003 I/min Spring; with Type P340 Latch
C477M-24-37	3 in. NPT Internal Valve; Straight-Thru Body; 375 GPM / 1419 I/min Spring; with Type P340 Latch
C477M-24-46	3 in. NPT Internal Valve; Straight-Through Body; 460 GPM / 1741 I/min Spring; with Type P340 Latch
C483-24-16	3 in. Flange Internal Valve; Double Flange Body; 160 GPM / 606 I/min Spring
C483-24-26	3 in. Flange Internal Valve; Double Flange Body; 265 GPM / 1003 I/min Spring
C483-24-40	3 in. Flange Internal Valve; Double Flange Body; 400 GPM / 1514 I/min Spring
C484-24-16	3 in. Flange Internal Valve; Single Flange Body; 160 GPM / 606 I/min Spring
C484-24-25	3 in. Flange Internal Valve; Single Flange Body; 250 GPM / 946 I/min Spring
C484-24-40	3 in. Flange Internal Valve; Single Flange Body; 400 GPM / 1514 I/min Spring
C486-24-16	3 in. CL300 Flange Inlet x FNPT Outlet Body; 160 GPM / 606 l/min Spring
C486-24-26	3 in. CL300 Flange Inlet x FNPT Outlet Body; 265 GPM / 1003 I/min Spring
C486-24-37	3 in. CL300 Flange Inlet x FNPT Outlet Body; 375 GPM / 1419 I/min Spring
C486-24-46	3 in. CL300 Flange Inlet x FNPT Outlet Body; 460 GPM / 1741 I/min Spring

BS&T - Internal Valves (continued)

Type No.	Description
C803-24-15	3 in. NPT; Regulator; Internal Valve; 150 GPM / 568 l/min
C803-24-20	3 in. NPT; Regulator; Internal Valve; 200 GPM / 757 l/min
C803-24-25	3 in. NPT; Regulator; Internal Valve; 250 GPM / 946 l/min
C803-24-40	3 in. NPT; Regulator; Internal Valve; 400 GPM / 1514 I/min
C803E-24-15	3 in. NPT; Regulator; Internal Valve; 150 GPM / 568 l/min
C804-24-15	3 in. Single Flange Regulator; Internal Valve Screen; 150 GPM / 568 l/min
C804-24-20	3 in. Single Flange Regulator; Internal Valve Screen; 200 GPM / 757 I/min
C804-24-25	3 in. Single Flange Regulator; Internal Valve Screen; 250 GPM / 946 I/min
C804-24-40	3 in. Single Flange Regulator; Internal Valve Screen; 400 GPM / 1514 I/min
C804-32-34	4 in. Flanged Internal Valve; Non-UL; 340 GPM / 1287 I/min Spring
C804-32-40	4 in. Flanged Internal Valve; Non-UL; 400 GPM / 1514 I/min Spring
C804-32-60	4 in. Flanged Internal Valve; Non-UL; 600 GPM / 2271 I/min Spring
C804-32-80	4 in. Flanged Internal Valve; Non-UL; 800 GPM / 3028 I/min Spring
C804AT32-40	4 in. Flanged Internal Valve; Non-UL; 400 GPM / 1514 I/min Spring; with Type P614 Actuator; with TFE Trim
C804AT32-60	4 in. Flanged Internal Valve; Non-UL; 600 GPM / 2271 I/min Spring; with Type P614 Actuator; with TFE Trim
C804AV32-40	4 in. Flanged Internal Valve; Non-UL; 400 GPM / 1514 I/min Spring; with Type P614 Actuator; with Fluorocarbon (FKM) Trim
C804AV32-60	4 in. Flanged Internal Valve; Non-UL; 600 GPM / 2271 I/min Spring; with Type P614 Actuator; with Fluorocarbon (FKM) Trim
C804E-24-15	3 in. Flanged Internal Valve; Single Flange Body; Legacy Style; Non-UL; 150 GPM / 568 I/min Spring; with EPDM Trim
C804E-24-40	3 in. Flange Regulator; Internal Valve; with Ethylene Propylene Trim; 400 GPM / 1514 I/min
C804F-24-50	3 in. Flange Regulator; Internal Valve; for France
C804H32-34	4 in. Flanged Internal Valve; Non-UL; Y Grade NGL Trim; 340 GPM / 1287 I/min Spring
C804H32-40	4 in. Flanged Internal Valve; Non-UL; Y Grade NGL Trim; 400 GPM / 1514 I/min Spring
C804H32-60	4 in. Flanged Internal Valve; Non-UL; Y Grade NGL Trim; 600 GPM / 2271 l/min Spring
C804H32-80	4 in. Flanged Internal Valve; Non-UL; Y Grade NGL Trim; 800 GPM / 3028 I/min Spring
C804H32-100	4 in. Flanged Internal Valve; Non-UL; Y Grade NGL Trim; 1000 GPM / 3785 I/min Spring
C804HA32-100	4 in. Flanged Internal Valve; Non-UL; 1000 GPM / 3785 I/min Spring; Type P614 Actuator; Y Grade NGL Trim
C804HA32-34	4 in. Flanged Internal Valve; Non-UL; 340 GPM / 1287 I/min Spring; Type P614 Actuator; Y Grade NGL Trim
C804HA32-40	4 in. Flanged Internal Valve; Non-UL; 400 GPM / 1514 I/min Spring; Type P614 Actuator; Y Grade NGL Trim
C804HA32-60	4 in. Flanged Internal Valve; Non-UL; 400 GPM / 1514 I/min Spring; Type P614 Actuator; Y Grade NGL Trim
C804HA32-80	4 in. Flanged Internal Valve; Non-UL; 800 GPM / 3028 I/min Spring; Type P614 Actuator; Y Grade NGL Trim
C804HM32-100	4 in. Flanged Internal Valve; Non-UL; 1000 GPM / 3785 l/min Spring; Type P313 Operating Lever; Y Grade NGL Trim
C804HM32-34	4 in. Flanged Internal Valve; Non-UL; 340 GPM / 1287 I/min Spring; Type P313 Operating Lever; Y Grade NGL Trim

Type No.	Description
C804HM32-40	4 in. Flanged Internal Valve; Non-UL; 400 GPM / 1514 l/min Spring; Type P313 Operating Lever; Y Grade NGL Trim
C804HM32-60	4 in. Flanged Internal Valve; Non-UL; 600 GPM / 2271 I/min Spring; Type P313 Operating Lever; Y Grade NGL Trim
C804HM32-80	4 in. Flanged Internal Valve; Non-UL; 800 GPM / 3028 l/min Spring; Type P313 Operating Lever; Y Grade NGL Trim
C804K-24-15	3 in. Flange Regulator; Internal Valve with Kalrez® Trim; 150 GPM / 568 l/min
C804K-24-25	3 in. Flange Reg; Internal Valve with Kalrez® Trim; 250 GPM / 946 l/min
C804K-24-40	3 in. Flange Reg; Internal Valve with Kalrez® Trim; 400 GPM / 1514 I/min
C804MT32-34	4 in. Flanged Internal Valve; Non-UL; 340 GPM / 1287 I/min Spring; with Type P313 Operating Lever; with TFE Trim
C804MT32-60	4 in. Flanged Internal Valve; Non-UL; 600 GPM / 2271 I/min Spring; with Type P313 Operating Lever; with TFE Trim
C804MT32-80	4 in. Flanged Internal Valve; Non-UL; 800 GPM / 3028 I/min Spring; with Type P313 Operating Lever; with TFE Trim
C804MV32-100	4 in. Flanged Internal Valve; Non-UL; 1000 GPM / 3785 I/min Spring; with Type P313 Operating Lever; with Fluorocarbon (FKM) Trim
C804MV32-34	4 in. Flanged Internal Valve; Non-UL; 340 GPM / 1287 //min Spring; with Type P313 Operating Lever; with Fluorocarbon (FKM) Trim
C804MV32-60	4 in. Flanged Internal Valve; Non-UL; 600 GPM / 2271 I/min Spring; with Type P313 Operating Lever; with Fluorocarbon (FKM) Trim
C804MV32-80	4 in. Flanged Internal Valve; Non-UL; 800 GPM / 3028 I/min Spring; with Type P313 Operating Lever; with Fluorocarbon (FKM) Trim
C804N-24-40	3 in. Flange Regulator; Internal Valve; Neoprene (CR) Trim; 400 GPM / 1514 I/min
C804T-24-15	3 in. Flange Regulator; Internal Valve; with Teflon® Trim; 150 GPM / 568 l/min
C804T-24-20	3 in. Flagne Regulator; Internal Valve; with Teflon® Trim; 200 GPM / 757 I/min
C804T-24-25	3 in. Flange Regulator; Internal Valve; with Teflon® Trim; 250 GPM / 946 l/min
C804T-24-40	Internal Valve
C804T-32-34	4 in. Flange Regulator; Internal Valve; with Teflon® Trim; 340 GPM / 1287 I/min
C804T-32-60	4 in. Flange Regulator; Internal Valve; with Teflon® Trim; 600 GPM / 2271 I/min
C804V-24-15	3 in. Flange Regulator; Internal Valve; with Viton® Trim; 150 GPM / 568 l/min
C804V-24-20	3 in. Flange Regulator; Internal Valve; with Viton® Trim; 200 GPM / 757 I/min
C804V-24-25	3 in. Flange Regulator; Internal Valve; with Viton® Trim; 250 GPM / 946 l/min
C804V-24-50	3 in. Flange Regulator; Internal Valve; with Viton® Trim; 500 GPM / 1893 I/min
C804V-32-40	4 in. Flange Regulator; Internal Valve; with Viton® Trim; 400 GPM / 1514 I/min
C807-10-04	1-1/4 in. NPT Internal Valve, Straight-Through Body, Non-UL, 40 GPM / 151 l/min Spring
C807-10-05	1-1/4 in. NPT Internal Valve; Straight-Through Body; Non-UL; 50 GPM / 189 I/min Spring
C807-10-08	1-1/4 in. NPT Internal Valve; Straight-Through Body; Non-UL; 80 GPM / 303 l/min Spring
C807-16-15	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; 150 GPM / 568 I/min
C807-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; 250 GPM / 946 I/min
C807E-16-10	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Ethylene Propylene Trim; 100 GPM / 379 l/min
C807E-16-15	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Ethylene Propylene Trim; 150 GPM / 568 l/min

BS&T Internal Valves (continued)

Type No	Description
Type No.	Description
C807E-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Ethylene Propylene Trim; 250 GPM / 946 l/min
C807K-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez® Trim; 250 GPM / 946 l/min
C807N-16-15	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; 150 GPM / 568 l/min
C807N-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; 250 GPM / 946 I/min
C807S-10-04	1-1/4 in. NPT Regulator Internal Valve, Stainless-Steel Body, Non-UL; 40 GPM / 151 I/min Spring
C807S-10-05	1-1/4 in. NPT Regulator; Internal Valve; Stainless-Steel Body; Non-UL; 50 GPM / 189 I/min Spring
C807S-10-08	1-1/4 in. NPT Regulator; Internal Valve; Stainless-Steel Body; Non-UL; 80 GPM / 303 I/min Spring
C807S-16-15	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; 150 GPM / 568 l/min
C807S-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; 250 GPM / 946 l/min
C807SE16-10	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Ethylene Propylene Trim; 100 GPM / 379 l/min
C807SV10-05	1-1/4 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 50 GPM / 189 I/min
C807SV16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 I/min
C807T-10-05	1-1/4 in. NPT; Regulator; Internal Valve; Straight-Through Body; Non-UL; 50 GPM / 189 l/min Spring; with TFE Trim
C807T-10-08	1-1/4 in. NPT; Regulator; Internal Valve; Straight-Through Body; Non-UL; 80 GPM / 303 l/min Spring; with TFE Trim
C807T-16-10	2 in. NPT; Regulator; Internal Valve; with Teflon® Trim; 100 GPM / 379 l/min
C807T-16-15	2 in. NPT; Regulator; Internal Valve; with Teflon® Trim; 150 GPM / 568 l/min
C807T-16-25	2 in. NPT; Regulator; Internal Valve; with Teflon® Trim; 250 GPM / 946 l/min
C807V-10-04	1-1/4 in. NPT; Regulator; Internal Valve, Straight-Through Body, Non-UL, 40 GPM / 151 l/min Spring, with Fluorocarbon (FKM) Trim
C807V-10-05	1-1/4 in. NPT; Regulator; Internal Valve; Straight-Through Body; Non-UL; 50 GPM / 189 l/min Spring; with Fluorocarbon (FKM) Trim
C807V-10-08	1-1/4 in. NPT; Regulator; Internal Valve; Straight-Through Body; Non-UL; 80 GPM / 303 l/min Spring; with Fluorocarbon (FKM) Trim
C807V-16-10	2 in. NPT; Regulator; Internal Valve; with Viton® Trim; 100 GPM / 379 I/min
C807V-16-15	2 in. NPT; Regulator; Internal Valve; with Viton® Trim; 150 GPM / 568 I/min
C807V-16-25	2 in. NPT; Regulator; Internal Valve; with Viton® Trim; 250 GPM / 946 I/min
C821E-16-25	2 in. NPT; Regulator; Internal Valve; Tee Body; with Ethylene Propylene Trim; 250 GPM / 946 l/min
C821E-24-40	3 in. NPT; Regulator; Internal Valve; Tee Body; with Ethylene Propylene Trim; 400 GPM / 1514 I/min
C821K-16-25	2 in. NPT; Regulator; Internal Valve; Tee Body; with Kalrez® Trim; 250 GPM / 946 I/min
C821K-24-40	3 in. NPT; Regulator; Internal Valve; Tee Body; with Kalrez® Trim; 400 GPM / 1514 I/min
C821T-16-10	2 in. NPT; Regulator; Internal Valve; Tee Body; with Teflon® Trim; 100 GPM / 379 I/min
C821T-16-25	2 in. NPT; Regulator; Internal Valve; Tee Body; with Teflon® Trim; 250 GPM / 946 I/min
C821T-24-25	3 in. NPT; Regulator; Internal Valve; Tee Body; with Teflon® Trim; 250 GPM / 946 I/min
C821T-24-40	3 in. NPT; Regulator; Internal Valve; Tee Body; with Teflon® Trim; 400 GPM / 1514 l/min
C821V-16-10	2 in. NPT; Regulator; Internal Valve; Tee Body; with Viton® Trim; 100 GPM / 379 I/min
C827E-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Ethylene Propylene Trim; 250 GPM / 946 I/min
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C827K-24-25 with Ethylene Propylene Trim; 250 GPM / 946 l/min C827K-16-10 2in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 100 GPM / 379 l/min C827K-16-15 2in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 150 GPM / 568 l/min C827K-16-25 2in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 250 GPM / 946 l/min C827K-24-25 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 250 GPM / 946 l/min C827K-24-25 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 250 GPM / 946 l/min C827K-24-40 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 250 GPM / 1541 l/min C827K-24-50 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalteze Trim; 250 GPM / 1893 l/min C827K-24-15 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min C827K-24-25 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827K-24-26 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827K-24-40 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827T-16-15 2in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflore Trim; 150 GPM / 568 l/min C827T-24-15 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflore Trim; 150 GPM / 568 l/min C827T-24-25 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflore Trim; 150 GPM / 568 l/min C827T-24-26 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflore Trim; 250 GPM / 946 l/min C827T-24-27 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflore Trim; 250 GPM / 946 l/min C827T-24-28 3in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflore Trim; 250 GPM / 946 l/min C827Y-24-29 3in. NPT; Regulator, Internal Valve; Stra	Type No.	Description
C827K-16-10 2 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 100 GPM / 379 limin C827K-16-15 2 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 150 GPM / 568 l/min C827K-24-25 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 250 GPM / 946 l/min C827K-24-25 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 250 GPM / 946 l/min C827K-24-40 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 400 GPM / 1514 l/min C827K-24-50 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 500 GPM / 1893 l/min C827K-24-50 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez* Trim; 500 GPM / 1893 l/min C827K-24-15 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827K-24-40 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827T-16-10 2 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 100 GPM / 379 l/min C827T-16-15 2 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 150 GPM / 568 l/min C827T-24-15 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 150 GPM / 568 l/min C827T-24-20 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 250 GPM / 946 l/min C827T-24-20 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 250 GPM / 568 l/min C827T-24-20 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 250 GPM / 379 l/min C827T-24-20 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 250 GPM / 468 l/min C827T-24-50 3 in. NPT; Regulator, Internal Valve; Straight-Through Body; with Teflor* Trim; 250 GPM / 468 l/min C82	C827E-24-25	
C827K-16-15 2 in NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez* Trim; 150 GPM / 568 l/min C827K-16-25 2 in NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez* Trim; 250 GPM / 946 l/min C827K-24-25 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez* Trim; 250 GPM / 946 l/min C827K-24-40 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez* Trim; 400 GPM / 1514 l/min C827K-24-50 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez* Trim; 500 GPM / 1693 l/min C827K-24-50 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez* Trim; 500 GPM / 1893 l/min C827K-24-15 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min C827K-24-25 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827K-24-40 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827K-24-40 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 100 GPM / 1514 l/min C827K-16-15 2 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 150 GPM / 568 l/min C827K-24-25 2 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 250 GPM / 946 l/min C827K-24-20 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 250 GPM / 946 l/min C827K-24-20 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 250 GPM / 946 l/min C827K-24-20 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 250 GPM / 946 l/min C827K-24-20 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 250 GPM / 946 l/min C827K-24-20 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Teffor* Trim; 250 GPM / 946 l/min C827K-24-20 3 in NPT; Regulator; Internal Valve; Straight-Through Body; with Vitor* Trim; 250 GPM / 94	C827K-16-10	2 in. NPT; Regulator; Internal Valve; Straight-Through Body;
C827K-16-15 with Kalrez® Trim; 150 GPM / 568 l/min C827K-24-25 lan, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 250 GPM / 946 l/min C827K-24-40 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 400 GPM / 1514 l/min C827K-24-40 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 500 GPM / 1948 l/min C827K-24-50 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 500 GPM / 1514 l/min C827K-24-51 2in, Internal Valve with Neoprene (CR) Trim C827K-24-15 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min C827K-24-25 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827K-24-40 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 1514 l/min C827K-24-40 2in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 154 l/min C827K-16-15 2in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827K-16-25 2in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827K-24-20 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827K-24-20 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827K-24-20 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827K-24-20 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827K-24-20 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827K-24-20 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Vidon® Trim; 250 GPM / 946 l/min C827K-24-50 3in, NPT; Regulator, Internal Valve; Straight-Through Body; with Vidon® Trim; 250 GPM / 946 l/min C827K-2		·
C827K-24-25 with Kalrez® Trim; 250 GPM / 946 l/min Sain, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 250 GPM / 946 l/min C827K-24-40 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 400 GPM / 1514 l/min C827K-24-50 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Kalrez® Trim; 500 GPM / 1893 l/min C827N-24-15 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min C827N-24-25 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827N-24-40 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827N-24-40 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 958 l/min C827T-16-10 2 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 100 GPM / 379 l/min C827T-16-25 2 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 946 l/min C827T-24-25 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 946 l/min C827T-24-20 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 946 l/min C827T-24-20 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 568 l/min C827T-24-25 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 468 l/min C827T-24-26 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 468 l/min C827T-24-26 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 468 l/min C827T-24-50 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 468 l/min C827T-24-50 3 in, NPT; Regulator, Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827T-24-50 3 in, NPT; Regulator, Internal	C827K-16-15	with Kalrez® Trim; 150 GPM / 568 I/min
c827K-24-40 with Kalrez® Trim; 250 GPM / 946 l/min c827K-24-40 with Kalrez® Trim; 400 GPM / 1514 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Kalrez® Trim; 500 GPM / 1893 l/min c827N-16-15 2 in. Internal Valve with Neoprene (CR) Trim 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min c827N-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min c827N-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min c827N-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min c827T-16-10 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 l/min c827T-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min c827T-24-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 757 l/min c827T-24-20 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 746 l/min c827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 1893 l/min c827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min c827T-24-50 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min c827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 200 GPM / 1893 l/min c827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 20	C827K-16-25	
with Kalrez® Trim; 400 GPM / 1514 I/min C827K-24-50 3in. NPT. Regulator; Internal Valve; Straight-Through Body; with Kalrez® Trim; 500 GPM / 1893 I/min C827N-16-15 2 in. Internal Valve with Neoprene (CR) Trim 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 I/min 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 946 I/min C827N-24-25 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 400 GPM / 1514 I/min C827T-16-10 2 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 I/min C827T-16-15 2 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 568 I/min C827T-16-25 2 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 I/min C827T-24-15 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 I/min 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 I/min C827T-24-20 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 568 I/min C827T-24-20 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 1514 I/min 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 1893 I/min C827T-24-50 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 I/min C827V-16-15 2 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 I/min C827V-24-50 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 I/min 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 1893 I/min C827V-24-40 3 in. NPT. Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 1894 I/min C827V-24-50 3 in. NPT. Regulator; Internal Valve; T	C827K-24-25	
with Kalrez® Trim; 500 GPM / 1893 l/min C827N-24-15	C827K-24-40	
C827N-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 150 GPM / 568 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 400 GPM / 1514 l/min C827T-16-10 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 l/min C827T-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827T-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 568 l/min C827T-24-20 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 568 l/min C827T-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1614 l/min C827T-24-50 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-	C827K-24-50	
with Neoprene (CR) Trim; 150 GPM / 568 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 250 GPM / 946 l/min C827N-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Neoprene (CR) Trim; 400 GPM / 1514 l/min C827T-16-10 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 l/min C827T-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827T-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 958 l/min C827T-24-20 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 757 l/min C827T-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 946 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827T-24-50 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 568 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through	C827N-16-15	2 in. Internal Valve with Neoprene (CR) Trim
with Neoprene (CR) Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 l/min 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 l/min 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 379 l/min 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 400 GPM / 1514 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body;	C827N-24-15	
with Neoprene (CR) Trim; 400 GPM / 1514 l/min C827T-16-10 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 100 GPM / 568 l/min C827T-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827T-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 568 l/min C827T-24-20 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 757 l/min C827T-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 1514 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 50 GPM / 568 l/min C827V-16-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Intern	C827N-24-25	
with Teffon® Trim; 100 GPM / 379 I/min C827T-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 150 GPM / 568 I/min C827T-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 946 I/min C827T-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 150 GPM / 568 I/min C827T-24-20 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 200 GPM / 757 I/min C827T-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 250 GPM / 946 I/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 400 GPM / 1514 I/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teffon® Trim; 500 GPM / 1893 I/min C827V-16-15 C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 568 I/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 I/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 I/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 1514 I/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 I/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 I/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 I/min Spring; with FFKM Trim C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1419 I/min Spring; with FFKM Trim C871T-24-26 C871T-24-27 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1419 I/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1419 I/min Spring; with TFE Trim 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1419 I/min Spring; with TFE Trim 3 in. NPT Internal	C827N-24-40	
C827T-16-13 with Teflon® Trim; 150 GPM / 568 l/min C827T-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-15 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 l/min C827T-24-20 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 757 l/min C827T-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 400 GPM / 1514 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1983 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 946 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-26 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 200 GPM / 1514 l/min C827V-24-30 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim	C827T-16-10	
with Teflon® Trim; 250 GPM / 946 I/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 150 GPM / 568 I/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 757 I/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 I/min C827T-24-25	C827T-16-15	
with Teflon® Trim; 150 GPM / 568 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 200 GPM / 757 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 400 GPM / 1514 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 400 GPM / 1514 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C827V-24-50 3 in. NPT Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1419 l/min Spring; with FFKM Trim C871T-24-26 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL; 275 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL; 275 GPM / 1419 l/	C827T-16-25	2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min
C8271-24-20 with Teflon® Trim; 200 GPM / 757 l/min C827T-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 250 GPM / 946 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 400 GPM / 1514 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 568 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 l/min Spring; with TFE Trim C871T-24-26 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim	C827T-24-15	
C8271-24-25 with Teflon® Trim; 250 GPM / 946 l/min C827T-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 400 GPM / 1514 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 568 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-20 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-26 2 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T	C827T-24-20	
C6271-24-40 with Teflon® Trim; 400 GPM / 1514 l/min C827T-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 568 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37	C827T-24-25	
C827V-16-15 with Teflon® Trim; 500 GPM / 1893 l/min C827V-16-15 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 150 GPM / 568 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim	C827T-24-40	
C827V-16-15 with Viton® Trim; 150 GPM / 568 l/min C827V-16-25 2 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 l/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim	C827T-24-50	
C827V-10-25 with Viton® Trim; 250 GPM / 946 l/min C827V-24-25 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 l/min Spring; with TFE Trim C871T-24-26 2 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871V-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim	C827V-16-15	
C827V-24-25 with Viton® Trim; 250 GPM / 946 l/min C827V-24-40 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 400 GPM / 1514 l/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 l/min Spring; with TFE Trim C871T-24-26 2 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871T-24-37 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim	C827V-16-25	
C827V-24-40 with Viton® Trim; 400 GPM / 1514 I/min C827V-24-50 3 in. NPT; Regulator; Internal Valve; Straight-Through Body; with Viton® Trim; 500 GPM / 1893 I/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 I/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 I/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 I/min Spring; with TFE Trim C871T-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 I/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 I/min Spring; with TFE Trim C871V-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 I/min Spring; with TFE Trim	C827V-24-25	
C627V-24-30 with Viton® Trim; 500 GPM / 1893 l/min C871K-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 l/min Spring; with TFE Trim C871T-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871V-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim	C827V-24-40	
C871K-16-25 250 GPM / 946 l/min Spring; with FFKM Trim C871K-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with FFKM Trim C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 l/min Spring; with TFE Trim C871T-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim C871V-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL;	C827V-24-50	
C871T-16-10	C871K-16-25	
C871T-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL; 105 GPM / 397 I/min Spring; with TFE Trim C871T-16-25 2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 I/min Spring; with TFE Trim C871T-24-26 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim C871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 I/min Spring; with TFE Trim C871V-16-10 2 in. NPT Internal Valve; Tee Body; Non-UL;	C871K-24-37	
250 GPM / 946 I/min Spring; with TFE Trim 3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim 2871T-24-37 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 I/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL;	C871T-16-10	
C8711-24-26 265 GPM / 1003 l/min Spring; with TFE Trim 3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL;	C871T-16-25	
375 GPM / 1419 l/min Spring; with TFE Trim 2 in. NPT Internal Valve; Tee Body; Non-UL;	C871T-24-26	
	C871T-24-37	
	C871V-16-10	

BS&T Internal Valves (continued)

Type No.	Description
C871V-16-15	2 in. NPT Internal Valve; Tee Body; Non-UL; 150 GPM / 568 I/min Spring; with Fluorocarbon (FKM) Trim
C871V-16-25	2 in. NPT Internal Valve; Tee Body; Non-UL; 250 GPM / 946 I/min Spring; with Fluorocarbon (FKM) Trim
C871V-24-16	3 in. NPT Internal Valve; Tee Body; Non-UL; 160 GPM / 606 I/min Spring; with Fluorocarbon (FKM) Trim
C871V-24-26	3 in. NPT Internal Valve; Tee Body; Non-UL; 265 GPM / 1003 l/min Spring; with Fluorocarbon (FKM) Trim
C871V-24-37	3 in. NPT Internal Valve; Tee Body; Non-UL; 375 GPM / 1419 I/min Spring; with Fluorocarbon (FKM) Trim
C871V-24-46	3 in. NPT Internal Valve; Tee Body; Non-UL; 460 GPM / 1741 //min Spring; with Fluorocarbon (FKM) Trim
C877K-16-10	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 105 GPM / 397 I/min Spring; with FFKM Trim
C877K-16-15	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 150 GPM / 568 I/min Spring; with FFKM Trim
C877K-16-25	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 250 GPM / 946 I/min Spring; with FFKM Trim
C877K-24-26	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 265 GPM / 1003 I/min Spring; with FFKM Trim
C877K-24-37	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 375 GPM / 1419 I/min Spring; with FFKM Trim
C877K-24-46	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 460 GPM / 1741 I/min Spring; with FFKM Trim
C877T-16-10	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 105 GPM / 397 I/min Spring; with TFE Trim
C877T-16-15	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 150 GPM / 568 I/min Spring; with TFE Trim
C877T-16-25	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 250 GPM / 946 I/min Spring; with TFE Trim
C877T-24-16	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 160 GPM / 606 I/min Spring; with TFE Trim
C877T-24-26	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim
C877T-24-37	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 375 GPM / 1419 I/min Spring; with TFE Trim
C877T-24-46	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 460 GPM / 1741 I/min Spring; with TFE Trim
C877V-16-25	2 in. NPT Internal Valve; Straight-Through Body; Non-UL; 250 GPM / 946 I/min Spring; with Fluorocarbon (FKM) Trim
C877V-24-26	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 265 GPM / 1003 I/min Spring; with Fluorocarbon (FKM) Trim
C877V-24-37	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 375 GPM / 1419 I/min Spring; with Fluorocarbon (FKM) Trim
C877V-24-46	3 in. NPT Internal Valve; Straight-Through Body; Non-UL; 460 GPM / 1741 I/min Spring; with Fluorocarbon (FKM) Trim
C884-24-16	3 in. Internal Valve; 160 GPM / 606 I/min Spring
C884-24-25	3 in. Internal Valve; 250 GPM / 946 I/min Spring
C884-24-40	3 in. Internal Valve; 400 GPM / 1514 I/min Spring
C884-24-50	3 in. Single Flange Internal Valve ~ Non-UL; 500 GPM / 1893 I/min
C884K-24-16	3 in. Flange Internal Valve; Single Flange Body; Non-UL; 160 GPM / 606 I/min Spring; with FFKM Trim
C884K-24-25	3 in. Flange Internal Valve; Single Flange Body; Non-UL; 250 GPM / 946 I/min Spring; with FFKM Trim
C884K-24-40	3 in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 I/min Spring; with FFKM Trim
C884N-24-40	3 in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 l/min Spring; with Neoprene (CR) Trim
C884T-24-16	3 in. Flange Internal Valve; Single Flange Body; Non-UL; 160 GPM / 606 I/min Spring; with TFE Trim

C884T-24-25 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 250 GPM / 946 Imin Spring; with TFE Trim C884T-24-40 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 Imin Spring; with TFE Trim C884V-24-16 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 160 GPM / 966 Imin Spring; with Fluorocarbon (FKM) Trim C884V-24-25 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 250 GPM / 946 Imin Spring; with Fluorocarbon (FKM) Trim C886V-24-40 3 in. C1300 Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 Imin Spring; with FKM Trim C886K-24-16 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 255 GPM / 1003 Imin Spring; with FFKM Trim C886K-24-26 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 255 GPM / 1003 Imin Spring; with FFKM Trim C886K-24-37 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 460 GPM / 1741 Imin Spring; with FFKM Trim C886K-24-46 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 560 GPM / 606 Imin Spring; with Neoprene (CR) Trim C886N-24-26 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 560 GPM / 1419 Imin Spring; with Neoprene (CR) Trim C886N-24-37 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 560 GPM / 1419 Imin Spring; with Neoprene (CR) Trim C886N-24-38 3 in. C1300 Flange Inter x FNPT Outlet; Non-UL; 560 GPM / 1419 Imin Spring; with Neoprene (CR) Trim C886N-24-37 3 in. C1300 Fl	Type No.	Description
C884T-24-40 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 I/min Spring; with TFE Trim C884V-24-516 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 160 GPM / 960 I/min Spring; with Fluorocarbon (FKM) Trim C884V-24-20 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 250 GPM / 960 I/min Spring; with Fluorocarbon (FKM) Trim C886K-24-40 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 I/min Spring; with Fluorocarbon (FKM) Trim C886K-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 150 GPM / 1003 I/min Spring; with FFKM Trim C886K-24-27 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with FFKM Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with FFKM Trim C886K-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 150 GPM / 606 I/min Spring; with Neoprene (CR) Trim C886K-24-47 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 400 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 400 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-37	C884T-24-25	, , , , ,
C884V-24-16 3in. Flange Internal Valve; Single Flange Body, Non-UL; 160 GPM / 606 /min Spring; with Fluorocarbon (FKM) Tim C884V-24-25 3in. Flange Internal Valve; Single Flange Body; Non-UL; 250 GPM / 946 /min Spring; with Fluorocarbon (FKM) Tim C884V-24-40 3in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 /min Spring; with Fluorocarbon (FKM) Tim C886K-24-16 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 /min Spring; with FFKM Tim C886K-24-26 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 256 GPM / 1003 /min Spring; with FFKM Tim C886K-24-37 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 /min Spring; with FFKM Tim C886K-24-43 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 566 /min Spring; with FFKM Tim C886K-24-43 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 566 /min Spring; with Neoprene (CR) Tim C886K-24-46 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 /min Spring; with Neoprene (CR) Tim C886K-24-26 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 /min Spring; with Neoprene (CR) Tim C886K-24-37 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 /min Spring; with Neoprene (CR) Tim C886K-24-38 3in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 /min Spring; with Neoprene (CR) Tim C887K-16-25 2in. Internal Valve; 250 GPM	C884T-24-40	3 in. Flange Internal Valve; Single Flange Body; Non-UL;
C884V-24-25 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 250 GPM / 946 Imin Spring; with Fluorocarbon (FKM) Trim C884V-24-40 3 in. Flange Internal Valve; Single Flange Body; Non-UL; 400 GPM / 1514 Imin Spring; with Fluorocarbon (FKM) Trim C886K-24-16 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 Imin Spring; with FFKM Trim C886K-24-26 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1030 Imin Spring; with FFKM Trim C886K-24-37 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 Imin Spring; with FFKM Trim C886K-24-46 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 Imin Spring; with Neoprene (CR) Trim C886K-24-47 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 Imin Spring; with Neoprene (CR) Trim C886K-24-48 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 Imin Spring; with Neoprene (CR) Trim C886K-24-46 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 Imin Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL.300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 141 Imin Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 141 Imin Spring; with Neoprene (CR) Trim C886K-24-38 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 141 Imin Spring; with Neoprene (CR) Trim C887K-16-25 2 in. Inter	C884V-24-16	3 in. Flange Internal Valve; Single Flange Body; Non-UL;
C884V-24-40 3 in. Flange Internal Valve; Single Flange Body, Non-UL; 400 GPM / 1514 I/min Spring; with Fluorocarbon (FKM) Trim C886K-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 I/min Spring; with FFKM Trim C886K-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with FFKM Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with FFKM Trim C886K-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with FFKM Trim C886K-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 1608 I/min Spring; with Neoprene (CR) Trim C886K-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C886K-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-38 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886K-24-39 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C887K-16-25 2 in. Internal Valve; 250	C884V-24-25	3 in. Flange Internal Valve; Single Flange Body; Non-UL;
C886K-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 I/min Spring; with FFKM Trim C886K-24-26 3 in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 255 GPM / 1003 I/min Spring; with FFKM Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with FFKM Trim C886K-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with FFKM Trim C886N-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 I/min Spring; with Neoprene (CR) Trim C886N-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C886N-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C886N-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886N-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with Neoprene (CR) Trim C886N-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with Neoprene (CR) Trim C887N-16-15 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887N-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887Y-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C891-16-10 2 in. Flange Internal Valve; S	C884V-24-40	3 in. Flange Internal Valve; Single Flange Body; Non-UL;
C886K-24-26 3 in. CL 300 Flange Inlet x FNPT Outlet; Non-UL; 255 GPM / 1003 //min Spring; with FFKM Trim C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 //min Spring; with FFKM Trim C886K-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 606 //min Spring; with Neoprene (CR) Trim C886N-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 //min Spring; with Neoprene (CR) Trim C886N-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 255 GPM / 1003 //min Spring; with Neoprene (CR) Trim C886N-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 //min Spring; with Neoprene (CR) Trim C886N-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 //min Spring; with Neoprene (CR) Trim C887K-16-25 2 in. Internal Valve; 250 GPM / 946 //min Spring C887K-16-25 2 in. Internal Valve; 250 GPM / 946 //min Spring C887K-16-25 2 in. Internal Valve; 250 GPM / 946 //min Spring C887K-16-25 2 in. Internal Valve; 250 GPM / 946 //min Spring C887K-16-25 2 in. Internal Valve; 250 GPM / 946 //min Spring C891-16-10 2 in. Flange Internal Valve; 5tainless Steel Side Outlet Body; Non-UL; 105 GPM / 568 //min Spring; with Nitrile (NBR) Trim C891-6-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 //min Sprin	C886K-24-16	3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL;
C886K-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with FFKM Trim C886K-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with FFKM Trim C886N-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 I/min Spring; with Neoprene (CR) Trim C886N-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C886N-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886N-24-38 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with Neoprene (CR) Trim C886N-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with Neoprene (CR) Trim C887K-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887K-16-25 2 in. Internal Valve; 150 GPM / 968 I/min Spring C887K-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887K-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887K-16-25 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 I/min Spring; with Nitrile (NBR) Trim C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 I/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve;	C886K-24-26	3 in. CL 300 Flange Inlet x FNPT Outlet; Non-UL;
C866N-24-16 460 GPM / 1741 I/min Spring; with FFKM Trim C886N-24-16 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 160 GPM / 606 I/min Spring; with Neoprene (CR) Trim C886N-24-26 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C886N-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1419 I/min Spring; with Neoprene (CR) Trim C886N-24-36 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 I/min Spring; with Neoprene (CR) Trim C887K-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887N-16-15 2 in. Internal Valve; 150 GPM / 568 I/min Spring C887N-16-15 2 in. Internal Valve; 250 GPM / 946 I/min Spring C887T-16-15 2 in. Internal Valve; 150 GPM / 568 I/min Spring C887V-16-15 2 in. Internal Valve; 150 GPM / 568 I/min Spring C887V-16-15 2 in. Internal Valve; 250 GPM / 946 I/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 I/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 I/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 I/min Spring; with Nitrile (NBR) Trim C891-	C886K-24-37	3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL;
C886N-24-26	C886K-24-46	
C886N-24-26 265 GPM / 1003 J/min Spring; with Neoprene (CR) Trim C886N-24-37 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 375 GPM / 1419 J/min Spring; with Neoprene (CR) Trim C886N-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 J/min Spring; with Neoprene (CR) Trim C887N-16-25 2 in. Internal Valve; 250 GPM / 946 J/min Spring C887N-16-15 2 in. Internal Valve; 250 GPM / 946 J/min Spring C887N-16-25 2 in. Internal Valve; 250 GPM / 946 J/min Spring C887T-16-15 2 in. Internal Valve; 250 GPM / 946 J/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 J/min Spring C887T-16-15 2 in. Internal Valve; 250 GPM / 946 J/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 J/min Spring C891-16-10 10 GPM / 397 J/min Spring; with Nitrile (NBR) Trim C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 J/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 J/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 568 J/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL;	C886N-24-16	
C886N-24-37 375 GPM / 1419 l/min Spring; with Neoprene (CR) Trim C886N-24-46 3 in. CL300 Flange Inlet x FNPT Outlet; Non-UL; 460 GPM / 1741 l/min Spring; with Neoprene (CR) Trim C887K-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887N-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887N-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel S	C886N-24-26	
C887K-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887N-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887N-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891ST16-25 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Internal Valve; Stainless Stee	C886N-24-37	
C887N-16-15 2 in. Internal Valve; 150 GPM / 568 l/min Spring C887N-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15	C886N-24-46	
C887N-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887T-16-15 2 in. Internal Valve; 150 GPM / 568 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-15 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-40 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim C891SN-24-16 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring	C887K-16-25	2 in. Internal Valve; 250 GPM / 946 I/min Spring
C887T-16-15 2 in. Internal Valve; 150 GPM / 568 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-15 2 in. Internal Valve; 150 GPM / 568 l/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891SN-24-40 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-16 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891ST16-25 2 in. Flange Internal Valve; Stainless Steel	C887N-16-15	2 in. Internal Valve; 150 GPM / 568 I/min Spring
C887T-16-15 2 in. Internal Valve; 150 GPM / 568 l/min Spring C887T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C887V-16-15 2 in. Internal Valve; 150 GPM / 568 l/min Spring C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-40 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891SN-24-16 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Sprin	C887N-16-25	2 in. Internal Valve; 250 GPM / 946 l/min Spring
C887T-16-25 C887V-16-15 C887V-16-15 C887V-16-25 C887V-16-25 C891-16-10 C891-16-10 C891-16-10 C891-16-15 C891-16-15 C891-16-15 C891-16-25 C891-24-15 C891-24-16 C891-24-26 C891-24-26 C891-24-40 C891-24-55 C891-24-55 C891-24-60 C891-24-60 C891-24-75 C891-24-75 C891-24-80 C891-80 C891-8	C887T-16-15	
C887V-16-15 C887V-16-25 Z in. Internal Valve; 250 GPM / 946 l/min Spring Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-25 Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-26 Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-40 Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-40 Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 568 l/min Spring; with Neoprene (CR) Trim Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim Z in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim Z in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim Z in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim		
C887V-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim C891-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim C891-24-15 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim C891-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-40 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim C891SN-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim		
C891-16-10 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 105 GPM / 397 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim C891-24-40 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-16-15 C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim	C887V-16-25	
150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim	C891-16-10	2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL;
C891-16-25 250 GPM / 946 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim C891SN-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with TFE Trim C891ST16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim	C891-16-15	
150 GPM / 568 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Nitrile (NBR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 1003 l/min Spring; with TFE Trim C891ST24-26 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim	C891-16-25	,
C891-24-26 C891-24-40 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim C891SN-16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim C891SN-24-16 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim C891SN-24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 C891ST16-25 C891ST24-26 C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 C89	C891-24-15	
400 GPM / 1514 l/min Spring; with Nitrile (NBR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with TFE Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim	C891-24-26	
C891SN-16-15 150 GPM / 568 I/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 160 GPM / 606 I/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 I/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 I/min Spring; with TFE Trim C891ST16-25 C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 I/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim 2 in. Internal Valve; SST/STL; 150 GPM / 568 I/min	C891-24-40	
C891SN-24-16 160 GPM / 606 l/min Spring; with Neoprene (CR) Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with Neoprene (CR) Trim C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 l/min Spring; with TFE Trim C891ST16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C897T-16-15 2 in. Internal Valve; SST/STL; 150 GPM / 568 l/min	C891SN-16-15	
C891ST16-15 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 150 GPM / 568 I/min Spring; with TFE Trim C891ST16-25 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 I/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 256 GPM / 1003 I/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 267 GPM / 946 I/min Spring; with TFE Trim C891T-16-15 2 in. Internal Valve; SST/STL; 150 GPM / 568 I/min	C891SN-24-16	
C891ST16-25 150 GPM / 568 I/min Spring; with TFE Trim 2 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 250 GPM / 946 I/min Spring; with TFE Trim 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 I/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; 250 GPM / 946 I/min Spring C897T-16-15 2 in. Internal Valve; SST/STL; 150 GPM / 568 I/min	C891SN-24-26	
C891ST16-25 250 GPM / 946 l/min Spring; with TFE Trim C891ST24-26 3 in. Flange Internal Valve; Stainless Steel Side Outlet Body; Non-UL; 265 GPM / 1003 l/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C897T-16-15 2 in. Internal Valve; SST/STL; 150 GPM / 568 l/min	C891ST16-15	
C891S124-26 265 GPM / 1003 l/min Spring; with TFE Trim C891T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min Spring C897T-16-15 2 in. Internal Valve; SST/STL; 150 GPM / 568 l/min	C891ST16-25	
C897T-16-15 2 in. Internal Valve; SST/STL; 150 GPM / 568 l/min	C891ST24-26	,
	C891T-16-25	2 in. Internal Valve; 250 GPM / 946 I/min Spring
C897T-16-25 2 in. Internal Valve; 250 GPM / 946 l/min	C897T-16-15	2 in. Internal Valve; SST/STL; 150 GPM / 568 I/min
	C897T-16-25	2 in. Internal Valve; 250 GPM / 946 I/min

BS&T Back Check Valves

Type No.	Description
G100	3/4 in. MNPT x 3/4 in. FNPT; Back Pressure Valve; Brass; 21 GPM / 79 l/min
G101	1-1/4 in MNPT x 1-1/4 in. FNPT; Back Pressure Valve; Brass; 55 GPM / 208 I/min
G102	2 in. MNPT x 2 in. FNPT; Back Pressure Valve; Brass; 150 GPM / 568 I/min
G104	3 in. MNPT x 3 in. FNPT; Back Pressure Valve; Steel; 250 GPM / 946 I/min
G105	2 x 2 in. MNPT and 1-1/4 in. FNPT; Back Pressure Valve; Steel; Soft Seat
G106	3 in. FNPT x 2 in. MNPT; Back Pressure Valve; Steel; Soft Seat; 254 GPM / 961 I/min
G107	3×3 in. MNPT and 2 in. MNPT; Back Pressure Valve; Steel; Soft Seat; 254 GPM / 961 l/min
G109	2 x 2 in. FNPT; Back Pressure Valve; In-Line; Brass; 150 GPM / 568 I/min
G112	2 in. MNPT x 2 in. FNPT; Back Pressure Valve; Steel; 150 GPM / 568 I/min
G200-10	1-1/4 x 1-1/4 in. FNPT; Back Pressure Valve; Ductile Iron; 190 GPM / 719 I/min
G200-16	2 x 2 in. FNPT; Back Pressure Valve; Ductile Iron; 350 GPM / 1325 I/min
G200-24	3 x 3 in. FNPT; Back Pressure Valve; Ductile Iron; 800 GPM / 3028 I/min
G201-10	1-1/4 in. Back Pressure Valve; with Flow Indicator
G201-16	2 in. Back Pressure Valve; with Flow Indicator
G201-24	3 in. Back Pressure Valve; with Flow Indicator

BS&T ESV - Emergency Shutoff Valves

Type No.	Description
N551-10	1-1/4 in. Emergency Shutoff Valve, UL
N551-16	2 in. Emergency Shutoff Valve, UL
N551-24	3 in. Emergency Shutoff Valve, UL
N562-16	Railcar valve with 2 in. FNPT Outlet
N562-18	Railcar valve with 2-1/4 in. Male ACME Outlet
N562-26	Railcar valve with 3-1/4 in. Male ACME Outlet
N562-REPAIR	Railcar Repair
N563-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; UL; Nitrile (NBR)
N563-26	Railcar valve with 3-1/4 in. ACME Outlet and 2 in. FNPT Nipple; UL; Nitrile (NBR)
N851K-10	1-1/4 in. Emergency Shutoff Valve, Non-UL, Kalrez® Trim
N851K-16	2 in. Emergency Shutoff Valve, Non-UL, Kalrez® Trim
N851K-24	3 in. Emergency Shutoff Valve, Non-UL, Kalrez® Trim
N862K-16	Railcar valve with 2 in. FNPT Outlet; with FFKM Trim
N862K-18	Railcar valve with 2-1/4 in. Male ACME Outlet; with FFKM Trim
N862K-26	Railcar valve with 3-1/4 in. Male ACME Outlet; with FFKM Trim
N862V-16	Railcar valve with 2 in. FNPT Outlet; with Fluorocarbon (FKM) Trim
N862V-18	Railcar valve with 2-1/4 in. Male ACME Outlet; with Fluorocarbon (FKM) Trim
N862V-26	Railcar valve with 3-1/4 in. Male ACME Outlet; with Fluorocarbon (FKM) Trim
N863-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; Nitrile (NBR)

BS&T ESV - Emergency Shutoff Valves (continued)

Type No.	Description
N863-26	Railcar valve with 3-1/4 in. ACME Outlet and 2 in. FNPT Nipple; Nitrile (NBR)
N863E-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; Ethylene Propylene
N863E-26	Railcar valve with 3-1/4 in. ACME Outlet and 2 in. FNPT Nipple; Ethylene Propylene
N863K-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; Kalrez®
N863K-26	Railcar valve with 1/4 in. ACME Outlet and 2 in. FNPT Nipple; Kalrez®
N863N-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; Neoprene (CR)
N863N-26	Railcar valve with 3-1/4 in. ACME Outlet and 2 in. FNPT Nipple; Neoprene (CR)
N863T-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; TFE
N863T-26	Railcar valve with 3-1/4 in. ACME Outlet and 2 in. FNPT Nipple; TFE
N863V-16	Railcar valve with 2 in. FNPT Outlet and 2 in. FNPT Nipple; Viton®
N863V-26	Railcar valve with 3-1/4 in. ACME Outlet and 2 in. FNPT Nipple; Viton®

BS&T Globe and Angle Valves

Type No.	Description
N301-04	1/2 in. NPT Globe Valve
N301-06	3/4 in. NPT Globe Valve
N301-08	1 in. NPT Globe Valve
N310-10	1-1/4 in. NPT Globe Valve
N310-12	1-1/2 in. NPT Globe Valve
N310-16	2 in. NPT Globe Valve
N310-24	3 in. NPT Globe Valve
N310F-24	3 in. ASME Flange Globe Valve
N350-04	1/2 in. Economy Globe Valve
N350-06	3/4 in. Economy Globe Valve
N401-04	1/2 in. NPT Angle Valve
N401-06	3/4 in. NPT Angle Valve
N401-08	1 in. NPT Angle Valve
N410-10	1-1/4 in. NPT Angle Valve
N410-12	1-1/2 in. NPT Angle Valve
N410-16	2 in. NPT Angle Valve
N410-24	3 in. NPT Angle Valve
N410F-24	3 in. ASME Flange Angle Valve
N450-04	1/2 in. Economy Angle Valve
N450-06	3/4 in. Economy Angle Valve
N801T-04	1/2 in. NPT Globe Valve; with TFE Trim
N801T-06	3/4 in. NPT Globe Valve; with TFE Trim
N801T-08	1 in. NPT Globe Valve; with TFE Trim
N810FT-24	3 in. ASME Flange Globe Valve; with TFE Trim
N810T-10	1-1/4 in. NPT Globe Valve; with TFE Trim

BS&T Globe and Angle Valves (continued)

Type No.	Description
N810T-12	1-1/2 in. NPT Globe Valve; with TFE Trim
N810T-16	2 in. NPT Globe Valve; with TFE Trim
N810T-24	3 in. NPT Globe Valve; with TFE Trim
N901T-04	1/2 in. NPT Angle Valve; with TFE Trim
N901T-06	3/4 in. NPT Angle Valve; with TFE Trim
N901T-08	1 in. NPT Angle Valve; with TFE Trim
N910FT-24	3 in. ASME Angle Globe Valve; with TFE Trim
N910T-10	1-1/4 in. NPT Angle Valve; with TFE Trim
N910T-12	1-1/2 in. NPT Angle Valve; with TFE Trim
N910T-16	2 in. NPT Angle Valve; with TFE Trim
N910T-24	3 in. NPT Angle Valve; with TFE Trim

BS&T - Additional Valves

Type No.	Description
D138	Fill Valve; 2 X 2-1/4 in.; Single Check
D139	3 in. MNPT X 3-1/4 in. ACME; Fill Valve; Single Check
D140	2 in. MNPT X 2-1/4 in. ACME; Fill Valve; Double Check
D141	3 in. MNPT X 3-1/4 in. ACME; Fill Valve; Double Check
F100	3/4 in. MNPT x 3/4 in. FNPT; Excess Flow Valve; 8.4 GPM / 32 I/min
F101	3/4 in. MNPT X 3/4 in. FNPT; Excess Flow Valve; 20 GPM / 76 I/min
F102	1-1/4 in. MNPT X 1-1/4 in. FNPT; Excess Flow Valve; 33 GPM / 125 I/min
F105	1-1/4 in. MNPT X 1-1/4 in. FNPT; Excess Flow Valve; 55 GPM / 208 I/min
F106	2 in. MNPT X 2 in. FNPT; Excess Flow Valve; 85 GPM / 322 l/min
F107	2 in. MNPT X 2 in. FNPT; Excess Flow Valve; 100 GPM / 379 l/min
F110	Excess Flow POL X 9/16 in.; 204 SCFH / 5.5 Nm ³ /h
F110A	Soft Nose MPOL X 9/16 in. to 18 in UNF LH; 204 SCFH / 5.5 $\rm Nm^3/h$
F110AW	Soft Nose MPOL X 9/16 in. to 18 in. UNF LH with Wing Nuts (T20582)
F110LP	MPOL X 9/16 in. to 18 in. UNF LH; 204 SCFH
F130	1 X 1 in. FNPT; Excess Flow Valve; 25 GPM / 95 l/min
F131	1-1/2 X 1-1/2 in. FNPT; Excess Flow Valve; 60 GPM / 227 l/min
F132	2 X 2 in. FNPT; Excess Flow Valve; 95 GPM / 360 l/min
F133	2 X 2 in. FNPT; Excess Flow Valve; 155 GPM / 587 I/min

BS&T - Additional Valves (continued)

Type No.	Description
F134	1-1/2 in. MNPT X 1 in. FNPT X 1 in. FNPT; Excess Flow Valve; 28 GPM / 106 l/min
F135	2-1/2 in. MNPT X 1-1/2 in. FNPT X 1-1/2 in. FNPT; Excess Flow Valve; 60 GPM / 227 l/min
F138	Excess Flow; 1/4 X 1/4 in.; 641 SCFH / 17 Nm³/h
F170	Excess Flow; 3/4 X 3/4 in.; 6.6 GPM
F173	Excess Flow; MPOL X 1/4; 204 SCFH / 5.5 Nm ³ /h
F173A	Excess Flow; Soft POL X 1/4 in.; 204 SCFH / 5.5 Nm ³ /h
F173AW	Excess Flow; Soft POL and Wing Nut
F181	Excess Flow; MPOL X 1/4 in.; 570 SCFH / 15 Nm³/h
F183	Excess Flow; MPOL X 9/16 in.; 570 SCFH / 15 Nm³/h
F186-06-1	Excess Flow-Air; 3/4 X 3/4; 171 SCFM / 275 Nm ³ /h
F187-08-1	Excess Flow-Air; 1 X 1; 189 SCFM / 304 Nm³/h
F187-12-1	Excess Flow-Air;1.5 X 1.5; 416 SCFM / 669 Nm³/h
F187-16-1	2 X 2 in. FNPT; Excess Flow Valve; Air; 879 SCFM / 1413 Nm³/h
F188-24-1	3 in. MNPT X 3 X 2 in. NPT; Excess Flow Valve; Air; 1729 SCFM / 2780 Nm³/h
F190	2 X 2 in. MNPT X 1-1/4 in. FNPT; Excess Flow Valve; Steel; 80 GPM / 303 I/min
F191	2 X 2 in. MNPT X 1-1/4 in. FNPT; Excess Flow Valve; Steel; 105 GPM / 397 I/min
F194	3 X 2 in. MNPT; Excess Flow Valve; Steel; 165 GPM / 625 I/min
F195	3 X 2 in. MNPT; Excess Flow Valve; Steel; 260 GPM / 984 I/min
F198	3 X 3 in. MNPT X 2 in. FNPT; Excess Flow Valve; Steel; 165 GPM / 625 I/min
F199	3 X 3 in. MNPT X 2 in. FNPT; Excess Flow Valve; Steel; 260 GPM / 984 I/min
F202	MPOL X 1/2 in. SAE Flare; Excess Flow Valve; 1100 SCFH / 29 Nm³/h
N201	Cylinder Filling Valve
N201-CFHA	Cylinder Filling Valve Hose Assembly
N456	Liquid Transfer Valve; 3/4 in. MNPT x 1-3/4 in. ACME
N480	1 in. NPT Hose End Valve; with M570 Adaptor
N481	1 in. NPT Hose End Valve Only

Regulator Accessories

Type No.	Description
50-2	1/4 in. MNPT; Test Gage; 0 to 35 in. w.c. / 0 to 0.09 mbar
50P-2	Test Gage Kit; Hose and Case
50P-5	Test Gage and Hose
803/21	Service Indicator; For Regulator 966
J500	Pressure Gauge; 0 to 15 psi; Back Connection
J501	Pressure Gauge; 0 to 30 psi; Back Connection
J502	Pressure Gauge; 0 to 60 psi; Back Connection
J504	Pressure Gauge; 0 to 160 psi; Back Connection
J506	Pressure Gauge; 0 to 300 psi; Back Connection
J514	Pressure Gauge; 0 to 160 psi; Back Connection
J516	Pressure Gauge; 0 to 300 psi; Back Connection
J542	Pressure Gauge; 0 to 400 psi; Steel
P100A	Triangular Mounting Bracket for R Series
P100C	Bowtie Mounting Bracket for R Series
P102A	Strap Bracket for 912 Series
P499	1/4 in. Flare X 1/4 in. MNPT Adaptor
P500	1/4 in. Inverted Flare Male Plug
P501	Filter for 67 Series Regulator

Type No.	Description
P520L	Orifice Reamer
P593-1	Aluminum Body Filter
P594-1	Brass Body Filter
Y602-1	Umbrella Vent; 1/4 in. MNPT
Y602-10	Vent Assembly
Y602-11	Vent Assemblies
Y602-12	S303 Vent Assembly
Y602-13	Angle Vent; 1/4 in. FNPT
Y602-14	Angle Vent; 1/4 in. FNPT; With Stabilizer
Y602-2	Umbrella Vent; 1/4 in. MNPT; With Stabilizer
Y602-23	Angle Vent; 3/4 in. MNPT
Y602-25	Angle Vent; 1 in. MNPT
Y602-5	Angle Vent; 3/8 in. FNPT
Y602-6	Angle Vent; 3/8 in. FNPT; With Stabilizer
Y602-7	Angle Vent; 1/2 in. FNPT
Y602-8	Angle Vent; 1/2 in. FNPT; With Stabilizer
Y602-9	Angle Vent; 3/4 in. FNPT

BS&T Accessories

Type No.	Description
J31A-1	Rotary Gauge
J31A-2	Rotary Gauge
J31A-3	Rotary Gauge
J31A-3L	Rotary Gauge
J31L-1	Rotary Gauge; 68 in.; Over 1200 Dial
J31L-2	Rotary Gauge; 69 to 92 in.; Over 1200 Dial
J31L-3	Rotary Gauge; 93 to 108 in.; Over 1200 Dial
J31L-3L	Rotary Gauge; 109 to 140 in.; Over 1200 Dial
J31X-1	X=No Dial
J31X-2	Less Dial
J31X-3L	Gauge
J402S	Liquid Vent Valve; 1/4 in.; SST
J403S	Liquid Vent; 1/4 in.; Stop Dial; SST
J415	Lever Gauge; 3/4 in.; Steel
J415-1	Liquid Level Vent Valve
J415-2	Angle Valve
J700	Thermometer; 1/2 in.; 4 in.; Stem; Steel
J701	Thermometer; 1/2 in.; 6 in.; Stem; Steel
M100	Coupling; 1-1/4 in. FACME X 3/8 MNPT
M101	Coupling;1-1/4 in. FACME X 1/2 NMPT
M108	CAP; 1-1/4 in. FACME
M109	CAP; 1-3/4 in. FACME
M109-1	M109 with Type P147 Attached
M110	Coupling; 1-3/4 in. FACME X 1/2 MNPT
M111	Coupling; 1-3/4 in. FACME X 3/4 MNPT
M112	Coupling; 1-3/4 in. FACME X 1 MNPT
M120	Coupling; 2-1/4 in. FACME X 1-1/4 MNPT
M121	Coupling; 2-1/4 X1-1/4 in.; Steel
M130	Coupling; 3-1/4 in. FACME X 2 MNPT
M133	Coupling; 3-1/4 X 2 in. NPT; Steel

Type No.	Description
M140	Coupling; 1-1/4 in. FACME X 3/8 in. MNPT
M141	Coupling; 1-1/4 in. FACME X 1/2 MNPT
M150	Coupling; 1-3/4 in. FACME X 3/4 MNPT
M151	Coupling; 1-3/4 in. FACME X 1 MNPT
M160	Coupling; 2-1/4 in. FACME X 1-1/4 MNPT
M178	Dust Seal; 1-1/4 in. MACME; Plastic
M179	Dust Seal; 1-3/4 in. MACME; Plastic
M180	Dust Seal; 2-1/4 in. MACME; Plastic
M181	Dust Seal; 3-1/4 in. MACME; Plastic
M192	Adaptor; 1-1/4 in. MACME X 1/2 FNPT
M193	Adaptor; 1-1/4 in. MACME X 3/4 FNPT
M211	Adaptor; 1-3/4 in. MACME X 3/8 FNPT
M219	CAP; 1-3/4 in. FACME; Steel
M219-1	CAP; 1-3/4 in. ACME; Steel; with Type P147
M229	1-3/4 in. Brass Female Cap
M229-1	Brass CAP and Chain Assembly
M239	1-3/4 in. MACME Dust Plug
M284	Adaptor; FPOL X 1/4 MNPT
M285	Adaptor; FPOL X 3/8 MNPT
M286	Adaptor; FPOL X 1/2 MNPT
M287	Adaptor; FPOL X 3/4 MNPT
M301	Adaptor; FPOL X 1/4 FNPT
M303	Adaptor; FPOL X 1/2 FNPT
M306	Adaptor; CGA 1550 X 1/4 MNPT
M307	Adaptor; CGA 1550 X 9/16 VNF-LH
M3162-08	Clamp Hose Coupling; 1/2 in. MNPT
M3162-12	Clamp Hose Coupling; 3/4 in. MNPT
M3162-12S	Clamp Hose Coupling; 1-3/4 in. FACME
M3162-16	Clamp Hose Coupling; 1 in. MNPT
M3162-20	Clamp Hose Coupling; 1-1/4 in. MNPT

BS&T Accessories (continued)

Type No.	Description
M3162-24	Clamp Hose Coupling; 1-1/2 in. MNPT
M3162-32	Clamp Hose Coupling; 2 in. MNPT
M3162-32B	Clamp Hose Coupling; 3-1/4 in.; Brass
M3162-32S	Clamp Hose Coupling; 3-1/4 in.; Steel
M3162-48	Clamp Hose Coupling; 3 MNPT
M3162-48B	Clamp Hose Coupling; 4-1/4 in.; Brass
M3162-48S	Clamp Hose Coupling; 4-1/4 in.; Steel
M357	Adaptor; MPOL X 1/2 FNPT
M388	Coupling; Soft MPOL X 1/4 MNPT
M390	Coupling; Soft POL X 1/4 NPT; 6 in.
M420	Seal Cap; FPOL
M431	Seal Cap; 2-1/4 in. FACME
M432	Seal Cap; 2-1/4 in. FACME; Steel
M441	M441 Seal Cap; 3-1/4 in. FACME
M442	Adaptor; 3-1/4 ACME X 1-1/4 in. NPT
M443	Seal Cap; 3-1/4 in. FACME; Steel
M450A	Unload Adaptor; 1-3/4 ACME X 3/4 in. NPT
M455	Adaptor; 3/4 X 3/4 in.; For Type N456
M498-4-2	Adaptor;1-1/4 ACME X 1/2 in. NPT
M498-6-3	Adaptor; 1-1/4 ACME X 3/4 and 3/8 in.
M535-34	Plug; 4-1/4 in. MACME; Steel
M570	Hose Adaptor; 1-3/4 X 1-3/4 in. ACME
M605-34	Seal cap; 4-1/4 in. FACME
M611	Adaptor; 2-1/4 X 1-3/4 in. ACME
M612	Adaptor; 3-1/4 X 1-3/4 in. ACME
M613	Adaptor; 4-1/4 X 3-1/4 in. ACME
M622	Adaptor; 3-1/4 X 1-3/4 in.; Steel
M623	Adaptor; 4-1/4 X 3-1/4 in.; Steel
M625-34	Seal Cap; 4-1/4 in. FACME; Steel

Type No.	Description
M631-6	Coupling; 1-3/4 X 3/4 in. NPT Steel
M631-8	Coupling; 1-3/4 in. ACME X 1 in. NPT Steel
M634-24	Coupling; 4-1/4 ACME X 3 in. NPT; Steel
M635-6	Coupling; 1-3/4 ACME X 3/4 in.; Steel
M635-8	Coupling; 1-3/4 ACME X 1 in. NPT; Steel
M640-4	Coupling; 1-1/4 X 1/2 in. NPT; Steel
M641-8	Coupling;1-3/4 ACME X 1 in. NPT; Steel
M646-6	Coupling; 1-3/4 X 3/4 in. NPT; Steel
M646-8	Coupling; 1-3/4 ACME X 1 in. NPT; Steel
M664-24	Coupling; 4-1/4 in. FACME X 3 MNPT
P104-24	Pipe-Away Adaptor for Type H284/H5114
P105	Deflector; 1/4 NPT; For Type H285
P120B	Spanner Wrench for ACME Fittings
P134	Fusible Links for Internal Valve Actuators
P145	Raincap for Types H185, H275 and 1805
P147	Chain and Ring for D101 and E102
P148	Chain and Ring for D200 and E125
P163A	Auxiliary Release; 25 ft. Cable; For 1-1/4, 2 and 3 in. Internal Valves
P164A	Auxiliary Release; 50 ft. Cable; For 1-1/4, 2 and 3 in. Internal Valves
P164B	Auxiliary Release; 50 ft. Cable; For Type N550/N551 ESV
P164C	Type P164B without Cable and Cable Casing
P167	Chain and Hook for ACME Caps
P174	1/2 in. FNPT Adaptor for Types H135 and H173
P183	Chain and Hook for 3-1/4 in. Seal
P193	Air Brake Kit; Under 3500 Gallons
P194	Air Brake Kit; Over 3500 Gallons
P195	Air Brake Kit; Twin Barrels
P205	Raincap for Type H348
P206	Raincap for Type H360/H369

BS&T Accessories (continued)

Type No.	Description
P209	Raincap for Type H250
P297	Raincap for Type H722/H822
P298	Raincap for Type H733/H833
P299	Raincap for Type H284/H5114
P304	Wrench for Type H722/H822
P305	Wrench for Type H733/H833
P306	Air Kit for transfer with 1 valve
P307	Air kit for transfer with 2 valves
P308	Air kit for transfer with 3 valves
P313	Lever and Release Assembly for Types C204-32, C404-32 and C404M32
P314	Cable Assembly for Types C204-32, C404-32 and C404M32
P315	Release Handle Used with Type P313 Includes 30 ft. Cable
P322	Gauge Dial; for 1200 Gallons or under
P323	Gauge Dial; for 1200 Gallons or over
P324	Gauge Dial; for NH ₃ Service
P327D	Air Cylinder Latch Block for Type N550/N551 ESV
P340	Fusible Element Latch Assembly for 2 and 3 in. NPT Internal Valves
P341	Fusible Element Latch Assembly for 1-1/4 in. NPT Internal Valves
P341LP	Fuse Latch

Type No.	Description				
P342	Bi-Directional Latch Assembly for 1-1/4 in. NPT Internal Valves				
P389	Cylinder Style Air Actuator for 1-1/4 in. NPT Internal Valves				
P539A	Brake Chamber Style Air Actuator for Type N550/N551 ESV				
P551	External Closing Spring Kit for Type N550/N551 ESV with Cable Release Latch Block				
P551A	External Closing Spring Kit for Type N550/N551 ESV with Type P327A Pneumatic Release Latch Block				
P613	Brake Chamber Style Air Actuator for Types C404-24 and C484-24				
P614A	Brake Chamber Style Air Actuator for Types C204-32 and C404-32				
P623	Brake Chamber Style Air Actuator for Types C403-24 and C483-24				
P631	Steel Enclosed Air Actuator for Type C407-10				
P639	Air Actuator; Types C402, C421 and C427				
P639A	Brake Chamber Style Air Actuator for 2 and 3 in. NPT Internals				
P650	Primary Cable Control; 1-1/4, 2 and 3 in. Internal Valves				
P651	Cable Control Only				
P713	Rotary Actuator; Type P713; 3 in. Single Flange				
P714	Rotary Actuator; Type P714; 4 in. Single Flange				
P723	Rotary Actuator; Type P723; 3 in. Double Flange				
P731	Rotary Actuator; Type P731; 1-1/4 in. Internal Valve				
P739	Rotary Actuator; 2 and 3 in. NPT Internals				

PILOTS AND REPAIR KITS LISTING

Pilots

Type No.	Description			
6351V-2	Type 6351 Pilot for Type 1098/1098H; 5 to 35 psig / 0.34 to 2.4 bar; Viton®			
6358EBHLP	250 to 375 psig / 17.2 to 25.9 bar; Relief Valve Pilot Assembly; with Elbow			
6358EBLP-1	85 to 140 psig / 5.9 to 9.7 bar; Relief Valve Pilot Assembly; with Elbow			
6358EBLP-2	130 to 200 psig / 9 to 13.8 bar; Relief Valve Pilot Assembly; with Elbow			
6358EBLP-250	UL Listed Pilot; 250 psig / 17.2 bar setpoint			
6358EBLP-3	180 to 350 psig / 12.4 to 24.1 bar; Relief Valve Pilot Assembly; with Elbow			
99H-1	99 Series Pilot (Type 61H); 10 to 65 psi / 0.69 to 4.5 bar			
99HP-1	99 Series Pilot (Type 61HP); 35 to 100 psi / 2.4 to 6.9 bar			
99L-1	99 Series Pilot (Type 61L); 1/4 to 2 psi / 17 mbar to 0.14 bar			
99L-2	99 Series Pilot (Type 61L); 1 to 5 psi / 69 mbar to 0.34 bar			
99L-3	99 Series Pilot (Type 61L); 2 to 10 psi / 0.14 to 0.69 bar			
99L-4	99 Series Pilot (Type 61L); 5 to 15 psi / 0.34 to 1 bar			
99L-5	99 Series Pilot (Type 61L); 10 to 20 psi / 0.69 to 1.4 bar			
XAPT6352002	Type 6352 Pilot for Type 1098 Regulator; 14 in. to 2 psig / 35 mbar to 0.14 bar			
XAPT6352010	Type 6352 Pilot for Type 1098 Regulator; 2 to 10 psig / 0.14 to 0.69 bar			
XAPT6352040	Type 6353 Pilot for Type 1098 Regulator; 3 to 40 psig / 0.21 to 2.8 bar			
XAPT6352075	Type 6353 Pilot for Type 1098 Regulator; 35 to 125 psig / 2.4 to 8.6 bar			

Repair Kits - Regulators

Type No.	Description
R299X000012	Type 299 Spare Repair Kit
R61HHX00012	Type 61HH Neoprene (CR)/Diaphragm Nitrile (NBR)/Disc Repair Kit
R61HPX00022	Type 61HP Standard Repair Kit
R61HX000012	Type 61H Nitrile (NBR) Diaphragm/Disc Repair Kit
R61LDX00012	Type 61LD Nitrile (NBR) Diaphragm/Disc Repair Kit
R61LX000012	Type 61L Nitrile (NBR) Diaphragm/Disc Repair Kit
R627HX00S12	Types 627H and 627HM SST/Nylon (PA) Trim Repair Kit
R627RX00A12	Types 627MR and 627R Aluminum/Nitrile (NBR) Trim Repair Kit
R627RX00A22	Types 627MR and 627R Aluminum/Nylon (PA) Trim Repair Kit

Repair Kits - Regulators (continued)

Type No.	Description			
R627RX00S12	Types 627MR and 627R SST/Nitrile (NBR) Trim Repair Kit			
R627RX00S22	Types 627MR and 627R SST/Nylon (PA) Trim Repair Kit			
R627X000A12	Types 627 and 627M Aluminum/Nitrile (NBR) Trim Repair Kit			
R627X000A22	Types 627 and 627M Aluminum/Nylon (PA) Trim Repair Kit			
R627X000S12	Types 627 and 627M SST/Nitrile (NBR) Trim Repair Kit			
R627X000S22	Types 627 and 627M SST/Nylon (PA) Trim Repair Kit			
R627X000V12	Types 627 Aluminum/Fluorocarbon (FKM) Trim Repair Kit			
R630X000L12	Type 630 Low Pressure Brass Trim with Comp/Disc Repair Kit			
R630X000L22	Type 630 Low Pressure Brass Trim with Nylon (PA)/Disc Repair Kit			
R64RX000012	Type 64R Spring Range 3 to 150 Repair Kit			
R64RX000H22	Type 64R Spring Range 130 to 200 Repair Kit			
R64SRT00012	Type 64SR LPG Regulator Repair Kit			
R64X0000012	Type 64 Spring Range 3 to 150 Repair Kit			
R64X0000H22	Type 64 Spring Range 130 to 200 Repair Kit			
R67CX000012	Type 67C Brass/Nitrile (NBR) Repair Kit			
R99HPX00012	Type 99HP Comp Disc 7/8 in. Port Repair Kit			
R99HPX00022	Type 99HP Comp Disc 1-1/8 in. Port Repair Kit			
R99HX000012	Type 99H Comp Disc 7/8 in. Port Repair Kit			
R99HX000022	Type 99H Comp Disc 1-1/8 in. Port Repair Kit			
R99LX000012	Type 99L Comp Disc 7/8 in. Port Repair Kit			
R99LX000022	Type 99L Comp Disc 1-1/8 in. Port Repair Kit			
R99LX000032	Type 99 Vent Assembly Retrofit Repair Kit			
RCS200X0012	Type CS200 Repair Kit			
RCS400X0012	Types CS400, CS403 and CS404 Repair Kit			
RCS403X0012	Type CS403 Repair Kit			
RCS404X0012	Type CS404 Repair Kit			
RCS800XBLK2	Type CS800 with Black Disc Repair Kit			
RCS800XBLU2	Type CS800 with Blue Disc Repair Kit			
RCS800XGRN2	Type CS800 with Green Disc Repair Kit			
RS100X00012	Types S100 and S102 Spare Less Seat Repair Kit			

PILOTS AND REPAIR KITS LISTING

Repair Kits - Regulators (continued)

Type No.	Description
RS200XRT012	Type S200 Stabilizing Retrofit Repair Kit
RS201HX0012	Types S201H and S202H Spare Less Seat Repair Kit
RS201KX0012	Type S201K Spare Less Seat Repair Kit
RS201X00012	Types S201 and S202 Spare Less Seat Repair Kit
RS301FX0012	Types S301D and S301F Spare Less Seat Repair Kit
RS301PX0012	Type S301P, High Pressure and Type S302P; High Pressure Spare Less Seat Repair Kit
RS301X00012	Type S301, High Pressure; Type S302; High Pressure Spare Less Seat Repair Kit
RS400X00012	S400 Series Orifice Tube; 1/8 in. Repair Kit
RS400X00022	S400 Series Orifice Tube; 3/16 in. Repair Kit
RS400X00032	S400 Series Orifice Tube; 1/4 in. Repair Kit
R63EGLPX012	Repair kit for Type 63EGLP Main body

Repair Kits - Valves

Type No.	Description			
1P110799152	C404-32 Upper Spiral Wound Gasket			
ERAA03396A0	C404-32 Retrofit Cable Pulley Kit			
ERSA03240A0	C404-32 Lower Spiral Wound Gasket (Replaces T1118299152 and GA26077X032)			
MK63EGLP001	Type 63EGLP Mounting Kit; Tank to Valve; Studs and Nuts			
MK63EGLP002	Type 63EGLP Mounting Kit; Valve to Reducer; Bolts and Nuts			
N56X-REPAIR	Contact your Fisher™ Distributor			
R63EGLPX012	Repair kit for Type 63EGLP Main body			
RC40016T012	2 in. Types C421 and C427 Repair Kit			
RC40024T012	3 in. Types C421 and C427 Repair Kit			
RC40324T012	3 in. Types C403-24 Repair Kit			
RC40424T012	3 in. Types C404-24 Repair Kit			
RC404YGT012	Types C404-32 Seal Replacement Parts Kit; Y Grade NGL			
RC40710T012	Repair Kit for 1-1/4 in. Type C407-10			
RC40710T032	Repair Kit Type C407-10, New Spring, Cam, with Gland Assembly, Seals, Nitrile (NBR)			
RC40710T042	Type C407-10 Repair Kit, Main and Gland Seals, Cam and Spring			
RC47016T012	2 NPT Types C471 and C477 Repair Kit			
RC47024T012	3 NPT Types C471 and C477 Repair Kit			
RC48324T012	Type C483 Repair Kit			
RC48424T012	Type C484 Repair Kit			

Repair Kits - Valves (continued)

Type No.	Description			
RCN551T0012	Type N551 Packing Repair Kit			
RFC40432T12	Type C40432 Retro Fit Kit			
RFC4716T012	2 in. NPT Type C471/C477 Jet Bleed Retro Fit Kit			
RFC4724T012	3 in. NPT Type C471/C477 Jet Bleed Retro Fit Kit			
RFC4824T012	3 in. Flange Type C483/C484 Jet Bleed Retro Fit Kit			
RN30008T012	Type N300-8/N400-8 Nitrile (NBR) Trim Repair Kit			
RN30012T012	Type N300-12/N400-12 Nitrile (NBR) Trim Repair Kit			
RN30016T012	Type N300-16/N400-16 Nitrile (NBR) Trim Repair Kit			
RN30024T012	Type N300/N400-24 Nitrile (NBR) Trim Repair Kit			
RN350T00012	N350/N450 Series Nitrile (NBR) Trim Repair Kit			
T12689T0012	N300/N400 Series Repair Kit; Bonnet, Packing and Stem Assembly			
T13090T0012	Type N550 Packing Repair Kit			
T11396000B2	Retrofitted Type C404-32 Packing Replacement Kit			
T11396000C2	Type C404-32 Seals Replacement Parts Kit			
T20377000B2	2 in. Types C421, C427, C471 and C477; Nitrile (NBR) Gland Assembly with Gland O-ring			
T20430000B2	3 in. Types C421, C427, C471, C477, C483, C484 and C486 Nitrile (NBR) Gland Assembly with Gland O-ring			

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WARRANTY AND LIABILITY

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