



INDUSTRIAL REGULATORS

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Innovative Solutions

Get Consistent Quality

By involving every employee in our ISO 9001:2008 Quality Assurance Program, you can count on the quality we provide you. We have coordinated our business systems, invested in state-of-the-art machine tools, and built an extensive component inventory so we can consistently provide cost-effective solutions and on-time delivery to meet your replacement or project requirements — regardless of size or complexity.

Make the Right Choice

"We simply make it right" by putting your needs first. The next time you specify control valves, regulators or vapor control emission systems, or you need a replacement fast...call the supplier that makes it right. Rely on Cashco for your single-source convenience. Great service, field-proven quality, and timely delivery makes Cashco the right choice.

Select Control Valves & Regulators FOR SPECIALIZED OR UTILITY SERVICE

We manufacture a broad line of throttling rotary and linear control valves, pressure reducing regulators, and back pressure regulators in line sizes from 1/4 inch to 10 inches and Cv ranges from .002 to 4,406. Models are available to handle slurries, cryogenic service, and corrosive fluids; to withstand high temperatures and pressures; and to maximize the reduction of fugitive emissions. Contact Cashco for complete product information.





WE ARE CASHCO

The Strength Of Our Organization Is Our Employees

COMMITMENT, QUALITY, DEDICATION.

Cashco, Inc., is a manufacturing enterprise, centrally located within the United States. Our employees use hard work, commitment, and passion to define company goals that deliver world-class products at a fair price.

At Cashco, we continue to innovate our products until they are recognized as best in class within their respective industry. If the customer is not satisfied, we take it upon ourselves to make it right. Cashco employees are the bloodline of our company elevating products above industry standards for performance, dependability, and safety.

At Cashco, the strength of our organization is our employees.

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MODEL // 1000HP

The Model 1000HP is the most versatile, selfcontained pressure reducing regulator available today. Its unique internal design and straightthrough flow path isolate the diaphragm from fluid velocity effects and increase capacity and stability at both high or low-flow rates. Flow-toopen design and extended guiding allow pressure drops to 650 psig. It can be used in severe service and cryogenic applications that normal pressure reducing regulators cannot handle. Four body materials and nineteen trim material selections provide compatibility with many fluids — including saturated and superheated steam, industrial gases, fuel oils, compressed air, sour gas, chemical, and other process fluid services.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Maximum Cv:

1.35 to 22

Materials:

Body DI, BRZ, CS, 316 SST Spring chamber DI, BRZ, CS, 316 SST BR, 416 SST, 316 SST Trim Seat

Metal - SST

Composition - Buna-N, EPR,

TFE, F.C. Elastomer

Diaphragm Phos. BRZ, 302 SST, Neoprene,

F.C. Elastomer, EPDM

End connections:

NPT, BSP, Flanged, Extended Pipe Ends

Temperature range:

-325° F to +600° F (special construction to -425° F)

Pressures:

Inlet: up to 740 psig standard Outlet: 10 to 300 psig

Pressure drop:

Up to 650 psig

Options:

Differential construction (single and double diaphragm), pharmaceutical/food industry and cryogenic construction, NACE service, numerous industry-specific options

The Model **1000HP** is a self-contained pressure reducing regulator.

MODEL / D/DL

The Model D Pressure Reducing Regulator is a time-proven product. For over 80 years, this inexpensive, ruggedly built regulator with piston-type, valve plug has been serving in medium-capacity, industrial applications including service for steam, air, oil, water, and many chemicals and gases. Optional construction extends Model D capabilities to cryogenic, pharmaceutical, food, and NACE applications.

Model D body size:

3/8", 1/2", 3/4", 1"

Model DL body size:

1-1/2", 2"

Model D maximum Cv:

1.8 to 4

Model DL maximum Cv:

7.0 to 10

Materials:

Body CI, BRZ, CS, 316 SST Spring chamber CI, BRZ, CS, 316 SST Trim BRZ, 416 SST, 316 SST Seat Metal - BR, SST

Composition - Buna-N, TFE, EPDM, F.C. Elastomer

Diaphragm Phos. BRZ, 302 SST,

Neoprene, F.C. Elastomer, EPDM

End connections:

NPT, BSP, Flanged, Extended Nipples

Temperature range:

-325° F to +400° F

Pressures:

Model D Inlet: up to 400 psig Model DL Inlet: up to 300 psig Model D Outlet: up to 250 psig Model DL Outlet: up to 150 psig

Pressure drop:

Up to 350 psid

Options:

Handwheel and locking lever





MODEL / 1000LP

This 1000LP-Series Regulator has a larger diaphragm area than its 1000HP counterpart to handle lower operating pressures. But the 1000LP's basic construction, specifications, and superior rangeability mirrors the 1000HP regulator. The internal design isolates the diaphragm from fluid velocity effects and eliminates flow-induced instability at high and low-flow rates.



1/2", 3/4", 1"

Maximum Cv: 3 to 9

Materials:

Body CI, BRZ, CS, 316 SST Spring chamber CI, CS, 316 SST, BRZ Trim BR, 416 SST, 316 SST Seat Metal – SST

Metal – SST Composition – Buna-N,

TFE, F.C. Elastomer
Diaphragm Phos. BRZ, 302 SST, Neoprene,

F.C. Elastomer, EPDM

End connections:

NPT, BSP, Flanged, Extended Pipe Ends

Temperature range:

-20° F to +600° F

Pressures:

Inlet: up to 450 psig standard

Outlet: 1 to 30 psig

Options:

Similar to options for 1000 HP

The Model
1000LP is a
pressure reducing
regulator with a
large diaphragm
area to handle lower
operating
pressures.

MODEL // POSR-1

The POSR-1 is a low-cost, pilot-operated pressure reducing steam regulator with a bellows seal design that eliminates sticking. Pilot and main valve trim are hardened 416 SST for long life. These regulators can maintain outlet pressure within +/- 5% and are commonly used in large steam heating installations and process applications with coolers, pasteurizers, sterilizers, vulcanizers, and other equipment. Available without the pilot as a pressure-loaded regulator.

Body sizes:

1/2", 3/4", 1"

Maximum Cv: 3.4 to 5.8

Materials:

Body DI, CS Seat Metal – HDN 416 SST

Diaphragm 302 SST **End connections:**

NPT

Temperature range:

Up to +450° F

Pressures:

Inlet: up to 300 psig Outlet: 5 to 150 psig

Pressure drop: Up to 200 psid

Options:

Pressure loaded main valve

The Model
POSR-1 is a lowcost pilot-operated
steam regulator
with bellows seals
that eliminates
sticking.

MODEL // POSR-2

The POSR-2 is a high-capacity version of the POSR-1. It utilizes a pressure-loaded piston design to eliminate the common problem of main valve diaphragm rupture. The POSR-1 and POSR-2 also eliminate common pilot valve sticking and provide high sensitivity and stability even on older or intermittently used steam systems.

The Model
POSR-2 is
a high-capacity,
pilot-operated steam
regulator with bellows
seal that eliminates
sticking.



Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3", 4"

Maximum Cv:

6.9 to 88

Materials:

Body DI, CS

Seat Metal – HDN 416 SST Diaphragm 302 SST – pilot only

End connections:

NPT, Flanged

Temperature range:

Up to +450° F

Pressures:

Inlet: up to 300 psig Outlet: 5 to 150 psig

Pressure drop:

Up to 200 psid **Options:**

ions:

Handwheel

MODEL / 31-N

Model 31-N is designed for use in the process industry where low-pressure gas is controlled. Corrosion-resistant ST or SST construction negates gas diffusion effects. The 31-N is designed primarily for blanketing fluids that are volatile, corrosive, or lethal. No internal relief.

Body sizes:

1/2", 3/4", 1", 1-1/2", 2"

Maximum Cv:

0.5 to 3.9

Materials:

Body CS, 316 SST
Spring chamber CS, 316 SST
Trim 316L SST
Seat Composition –

Buna-N, Silicone, F.C. Elastomer

Diaphragm Buna-N, F.C. Elastomer

End connections:

NPT, Flanges, Extended Nipples

Temperature range:

-30° F to +400° F

Pressures:

Inlet: up to 100 psig Outlet: 2" W.C. to 16" W.C.

Pressure drop:

Up to 100 psid

Options:

Pharmaceutical and food industry construction

MODEL // 1465

The Model 1465 is intended specifically for low-flow and high-pressure drop applications. It is frequently used to reduce pressure on a sample fluid to allow easier sampling/analysis.

302 SST, Neoprene,

Elgiloy, FKM

Body size:

1/4"

Maximum Cv:

0.05 (0.109"orifice) to 0.19 (0.156"orifice)

Materials:

Body 316 SST Spring chamber BR, 316L SST Trim SST Seat Metal – Stellite

End connections:

Diaphragm

NPT

Temperature range:

-20° F to +400° F

Pressures:

Inlet: up to 5000 psig Outlet: 5 to 500 psig

Pressure drop:

Up to 4700 psid

Options:

NACE construction, high outlet pressure construction

The Model
1465 is a
low-flow regulator
for condensate
analyzer
letdown.

MODEL // 3381

The Model 3381 is designed to handle low to moderate flows. It is suitable for controlling a wide range of fluids, including industrial gases, air, oil, steam, and water. Highmass plug provides stability.

The Model
3381 is a
bronze regulator
for low-flow
service.



The

Model 31-N

is a regulator

designed for up to

16" W.C. control.

Body sizes: 1/4", 3/8"

Maximum Cv:

0.5

Materials:

Body BRZ
Spring chamber BRZ
Trim BR
Seat Metal – BR

Composition – Buna-N, TFE
Diaphragm Phos. BRZ, Neoprene, FKM

End connections:

NPT

Temperature range:

-325° F to +400° F

Pressures:

Inlet: up to 800 psig Outlet: 5 to 300 psig

Options:

Cryogenic construction, dome loading, panel mounting, outlet pressure gauge

MODEL // 4381

The Model 4381 duplicates the strengths of the 3381 in SST. Its high-mass plug contributes to stability and it can handle industrial gases, air, oil, steam, water, and many chemicals.

Body sizes: 1/4", 3/8", 1/2" **Maximum Cv:**

0.5

Materials: Body

Seat

Spring chamber Trim

Diaphragm

The Model
4381 is a SSTbodied regulator
for low-flow
service.

SST BRZ, 316L SST SST

Metal – 316 SST Composition – TFE, EPDM 302 SST, TFE-coated

SST, Neoprene, EPDM

End connections:

NPT, Flanges

Temperature range:

-325° F to +400° F

Pressures:

Inlet: up to 1500 psig Outlet: 2 to 500 psig

Options:

Cryogenic construction, panel mounting, pharmaceutical/food industry construction, outlet pressure gauge

MODEL // MPRV-L

The Model MPRV-L is a compact, Brass body or SST body pressure reducing regulator used to control outlet pressure up to 600 psig.

The Model MPRV-L is

a compact

reaulator with a

Max Cv of .48

Bronze - ASTM B283, C37700

316/316L SST - ASTM A479

Body sizes: 1/4", 3/8"

Maximum Cv: .48

Materials:

Body Spring chamber

Trim Brass, SST
Seat TFE or Buna-N

Diaphragm Metal – 302 SST, Composition-Gylon

or Buna-N



End connections:

British Std Tapered Pipe Threads, FNTP

FINIP

Temperature range:

-325 to +180°F

Pressures:

600 psig Max

MODEL // MPRV-H

The Model MPRV-H is a compact, Brass body or SST body pressure regulator used to control outlet pressure up to 600 psig.

Body sizes:

3/8", 1/2" **Maximum Cv:**

1.03

Materials:

Body Spring chamber Trim Seat

Diaphragm

The Model
MPRV-H is
a compact
pressure reducing
regulator with a
Max CV of 1.03.

Bronze 316/316L SST BR, SST TFE or Buna-N Metal – 302 SST, Composition-

Gylon, Buna-N

End connections:

British Std Tapered Pipe Threads, FNTP

Temperature range: -325 to +180°F

Pressures:

600 psig Max

Body sizes: 1/4"

Maximum Cv: .49

Materials:

Body Spring chamber

Trim Seat

Diaphragm G

MODEL // PBE

The Model PBE has a compact body and functions in a dual role as a pressure building regulator and as an economizer relief regulator in one model. The pressure build feature controls the outlet pressure while the economizer feature operates to relieve any excess pressure in the system above set point from atmospheric to 600 psig.

The Model

PBE is a

compact

pressure build/
economizer up

to 1/4".

Brass - ASTM B16, Alloy 360 Bronze - ASTM B283, C37700

BR TFE

Gylon, 302 SST





British Std Tapered Pipe threads, FNPT

Temperature range:

-325 to +150°F

End connections:

Pressures:

600 psig Max

MODEL // PBE-L

The Model PBE-L has a compact, forged body and functions in a dual role as a pressure building regulator and as an economizer relief regulator in one model. The pressure build feature controls the outlet pressure while the economizer feature operates to relieve any excess pressure in the system above set point from atmospheric to 600 psig.



Body sizes:

1/2"

Maximum Cv:

1.21

Materials:

Body Bronze Spring chamber Bronze Trim BR Seat TFE

Diaphragm Metal - 302 SST, Composition or Gylon

End connections:

British Std Tapered Pipe Threads, FNPT

Temperature range:

-325 to +150°F

Pressures:

600 psig Max

The Model **PBE-L** is a compact pressure build/economic regulator.

MODEL / PBE-H

The Model PBE has a compact body and functions in a dual role as a pressure building regulator and as an economizer relief regulator in one model. The pressure build feature controls the outlet pressure while the econo-mizer feature operates to relieve any excess pressure in the system above set point from atmospheric to 250 psig.

Bronze - ASTM B62 C83600

Bronze - ASTM B62 C83600

Phos. Bronze, 302 SST, or Gylon



End connections:

British Std Tapered Pipe Threads, FNPT

Temperature range:

-325 to +150°F

Pressures:

400 psig Max

The Model **PBE-H** is a pressure build/ economizer with Max CV up to 1.80.

MODEL // HP

The HP is a heavy-duty high-pressure regulator designed to control downstream pressure between 10 and 750 psig with inlet pressure as high as 3000 psig. Composition seat provides bubble-tight shutoff. Metal seating is available and metal seating surfaces can be stellited. This regulator is not designed to be used in steam applications.



The Model **HP** is a high-pressure regulator, the industry standard for differential service on seal oil systems.

Body sizes:

Body sizes:

1/2"

1.80

Body

Trim

Seat

Diaphragm

Spring chamber

Materials:

Maximum Cv:

1/2", 3/4", 1", 1 1/2"

Maximum Cv:

4.39

Materials:

CS, SST, Mn BRZ Body Spring chamber CS, SST, Mn BRZ 316 SST Trim

Metal - 316 SST Seat

TFE

Composition-TFE or Nylon

Diaphragm TFE coated SST, SST or Neoprene

End connections:

NPT, Flanged, BSP, Extended Pipe Ends

Temperature range:

-20° F to +600° F

Pressures:

Inlet: up to 3000 psig Outlet: 10 to 750 psig

Options:

NACE Construction, Oxygen cleaned, Differential Construction

MODEL **8310LP/8310HP**

The Model 8310LP and the Model 8310HP are some of the highest-capacity pressure reducing regulators we manufacture. Their balanced plug design and double-port construction yields outstanding performance even at very low pressure drops. Diaphragms are isolated from fluid velocity effects. Applications include a wide variety of fluids.

Body sizes:

1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv: Up to 100

op to 10

Materials:

Body CI, CS Spring chamber DI, CS Trim SST

Seat TFE, Rulon – 316 SST, Stellite

Diaphragm 302 SST, Neoprene,

F.C. Elastomer

End connections:

1-1/2", 2" – NPT, CI or CS All sizes – 125#, 250# flange, CI All sizes – 150#, 300# flange, CS

Temperature range:

-20° F to +450° F

Pressures:

HP – Inlet: up to 650 psig / LP – Inlet: up to 200 psig HP – Outlet: 10 to 200 psig / LP – Outlet: 1 to 30 psig

Pressure drop:

HP - up to 450 psid / LP - up to 200 psid

Options:

Differential service construction



Models 8310LP/8310HP

are self-contained high-capacity regulators with double-seat design ideal for remote installation.

MODEL **// 345**

The Model 345 utilizes a piston design to handle high pressures. With optional nylon or TFE seats, it can control downstream pressures between 50 and 3000 psig with inlet pressures as high as 4000 psig. A metal-seated version with an unbalanced trim design is also available. The Model 345 is used primarily as a first-stage letdown valve on high-pressure applications. It is not designed to be used in steam applications.

Body sizes:

1/2", 3/4", 1"

Maximum Cv:

Up to 1.8

Materials:

Body Alum. BRZ, SST

Spring chamber BRZ Trim 316 SST

Seat Metal – 316 SST, Stellite

Composition – TFE, Nylon

End connections:

NPT, 300#, 600#, 900#, 1500# Flanges With SST Body

Temperature range:

Up to +400° F

Pressures:

Inlet: up to 4000 psig Outlet: 50 to 3000 psig

Pressure drop:

Up to 3000 psid

Options:

Weld-on flanges

The Model **345** is a heavy-duty high-pressure regulator commonly found in hydraulic or gaseous service.



PRESSURE REDUCING REGULATORS

Cashco has been a technological pioneer in the regulator industry since 1914. The regulators are designed to perform and built to last with the highest Cv and regulation accuracy available per valve size. They also offer the highest rangeability of any regulator in the industry.

Cashco regulators cover a wide range of compatible fluid applications including: water, steam, all industrial gases, acids, cryogenic fluids, ultra-

high purity fluids, corrosives and high viscosity fluids.

In addition, we manufacture a comprehensive line of control valves and regulators for all your process requirements. Our sales consultants can help you specify the appropriate product for your applications at: sales@cashco.com.

MODEL / DA1

The DA1 is an excellent pressure reducing regulator for all fluid types. Whether it is GOX or a viscous fluid, the Model DA1 is able to provide constant and accurate control through the necessary range of flow of your application. The regulator features a high flow design with balanced trim as a standard. The balanced trim allows rangeability up to 1000:1 for varying flows with very little change in set pressure. Due to the high capacities these regulators provide, it is now possible to install regulators where control valves were once needed. This allows additional savings since controllers, positioners, and auxiliary air supply are no longer needed.



The Model **DA1**is a high capacity
pressure reducing
regulator.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

198

Materials:

Body Spring chamber Trim Seat

Diaphragm

BRZ, DI, CS, HC, Duplex SST, 316 SST BRZ, DI, CS, Duplex SST, 316 SST 17-PH SST, 316L SST, Monel PolyAll, V-TFE, GF-TFE, C+TFE, NBR, BC, FKM Composition – BC, EPR, FKM, FK, NBR, FKM + TFE, Elast. TFE

Metal - Be-Cu

End connections:

NPT, 125#-250#, 150#-600# Integral Flanged, PN16, PN25, PN40 DIN Flanged, Extended Pipe Nipples, Tube End Construction or BSP

Temperature range:

-425° to +400° F

Inlet Pressure:

10 - 1480 psig

Outlet Pressure:

1- 450 psig

Options:

NACE, Cleaned for O2 Service, Cleaned for Chlorine Service

MODEL / DA2

The DA2 is a positive bias differential pressure reducing regulator for all fluid types. Much like the DA1, the ability to allow varying flows with little change in set pressure makes this an ideal regulator for high accuracy applications.





1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3", 4"

Maximum Cv:

196

Materials: Body

Spring chamber
Trim

Seat

Diaphragm

BRZ, DI, CS, 316 SST BRZ, DI, CS, 316 SST 17-PH SST, 316L SST, Monel PolyAll, V-TFE, GF-TFE, C+TFE, Buna-N, BC Composition – BC, EPR, FKM, FK, NBR,

FKM + TFE, Elast. TFE,

Metal – Be-Cu

End connections:

NPT, 125#-250#, 150#-600# Integral Flanged, PN16, PN25 ,PN40 DIN Flanged, Extended Pipe Nipples, Tube End Construction or BSP

Temperature range:

-425° to +400° F

Inlet Pressure:

10 - 3705 psig

Options:

Cleaned for O2 Service, Cleaned for Chlorine Service

MODEL / DA4

The DA4 is a dome loaded, high capacity reducing regulator. Much like the DA1, the ability to allow

varying flows with little change in set pressure makes this an ideal regulator for high accuracy applications. (The DA4 and the DA6 are ideal solutions for automating your pressure control systems.)





Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv: 198

Materials:

Body BRZ, DI, CS, Duplex SST, 316 SST Cover Dome BRZ, DI, CS, Duplex SST, 316 SST 17-PH SST, 316L SST, Monel Trim

PolyAll, V-TFE, GF-TFE, C+TFE, BC, NBR, FKM Seat

Diaphragm Composition - BC, EPR, FKM, FK, NBR, FKM + TFE, Elast, TFE,

Metal - Be-Cu

End connections:

NPT, 125#-250#, 150#-600# Integral Flanged, PN16, PN25, PN40 DIN Flanged, Extended Pipe Nipples, Tube End Construction or BSP

Temperature range:

-425° to +400° F

Inlet Pressure:

10 - 3705 psig **Outlet Pressure:**

2.0" W.C. - 1500 psig

Options:

NACE, Cleaned for O2 Service, Cleaned for Chlorine Service

MODEL / DAP

The DAP is a pressure loaded pressure reducing regulator for all fluid types. Much like the DAO, the ability to allow varying flows with little change in set pressure makes this an ideal regulator for high accuracy applications. The difference is the larger piston design, which allows for higher outlet pressures with lower pressure drops across the valve.



1/2", 3/4", 1", 1-1/2", 2"

Maximum Cv:

50

Materials:

Seat

SST Body Cover Dome SST Trim 17-PH SST, 316L SST V-TFE, PA, C-TFE

End connections:

NPT, 150#, 300#, 600#, Integral Flanged, PN16, PN25, PN40 DIN, Flanged, BSP

Temperature range:

-20° to +400° F

Inlet Pressure:

50 - 3600 psia **Outlet Pressure:** 1225 psig

The Model DAP is a large piston/ pilot operated gaseous pressure reducing regulator.

MODEL / DAO

The DAO is a pilot-operated steam reducing regulator with a piston design. The internal pressure balanced plug/piston provides high flow capacity and moderate pressure drop capability. Much like the DAP, the ability to allow varying flows with little change in set pressure makes this an ideal regulator for high accuracy applications. Apply in steam service applications only.



The Model DAO is a small piston/ pilot operated steam pressure reducing regulator.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

220

Materials:

Body DI, CS Cover Dome DI, CS 17-PH SST Trim Seat **GF-TFE**

End connections:

NPT, 125#-250#, 150#-300# Integral Flanged

Temperature range:

+110° to +406° F

Inlet Pressure:

35 - 400 psia

Outlet Pressure:

2 - 215 psig

PRESSURE REDUCING REGULATORS

MODEL // PGR-1

Model PGR-1 is high performance, pressure loaded diaphragm-type, flow-to-open pressure reducing regulator. Design includes an internal pressure balancing piston-cylinder that provides high flow capacity. The internal trim design allows the same basic unit to cover a broad range of pressure settings. Performance meets or exceeds that of competitive pressure loaded or pilot-operated designs. The PGR-1 regulator is applied primarily in clean natural gaseous service and fuel gas - sweet or sour.



The Model
PGR-1 is a
precise pressure
reducing
regulator.

Body sizes: 1", 1-1/2", 2", 3", 4"

Maximum Cv:

Body/Cover Dome Materials:

DI/DI, CS/CS, SST/SST DI = Ductile Iron CS = Carbon Steel SST = Stainless Steel **End connections:**

ASME Flanged, NPT

Temperature range:

-70° to +250°F

Inlet Pressure:

10 – 400 psig

Outlet Pressure:

2.0" W.C. – 200 psig

MODEL // ULR-1

Model ULR-1 is high performance, pressure loaded diaphragm-type, flow-to-open pressure reducing regulator. Design includes an internal pressure balancing piston-cylinder that provides high flow capacity and high pressure drop capability. The internal trim design allows the same basic unit to cover a broad range of pressure settings. Performance meets or exceeds that of competitive pressure loaded or pilot-operated designs. A back pressure regulator or "unloader" is piped to the top of the dome and is "set" to control the outlet pressure of the pressure reducing regulator.



Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

198

Body/Cover Dome Materials

DI/DI, BRZ/BRZ, CS/DI, BRZ/DI, CS/CS, SST/SST, SST/DI, SST/CS

DI = Ductile Iron

SST = Stainless Steel

BRZ = Bronze
CS = Carbon Steel

End connections:

Standard: Female NPT ASME Flanged: 125#, 150#, 250#, 300#, 600# DIN Flanged: PN16, PN25, PN40

Temperature range:

-50° to +400°F

Max Operating Pressure:

475 psig

MODEL // PTR-1

Model PTR-1 is high performance, pressure loaded diaphragm-type, flow-to-open pressure reducing regulator. Design includes an internal pressure balancing piston-cylinder that provides high flow capacity and high pressure drop capability. Performance meets or exceeds that of competitive pressure loaded or pilot-operated designs. A back pressure regulator or "unloader" is piped to the top of the dome and is "set" to control the outlet pressure of the pressure reducing regulator. In addition, a low temperature probe (pneumatic controller) with an integral, rigid insertion bulb and invar rod is installed up-stream of the Model PTR-1. When the exposed outer sheath senses a change in the process temperature below the minimum temperature set point of the probe, it vents loading pressure from the dome of the regulator and allows it to close.



Maximum Cv:

198

Body/Cover Dome Materials

BRZ/BRZ SST/SST

BRZ = Bronze

SST = Stainless Steel

End connections:

Standard: Female NPT ASME Flanged: 150#, 300#, 600# DIN Flanged: PN16, PN25, PN40

Temperature range:

-325° to +400°F

Max Operating Pressure:

475 psia

The Model
PTR-1 is
a precise
temperature
control
regulator.

MODEL / ALR-1

Model ALR-1 is high performance, pressure loaded diaphragmtype, flow-to-open pressure reducing regulator. Design includes an internal pressure balancing piston-cylinder that provides high flow capacity and high pressure drop capability. The internal trim design allows the same basic unit to cover a broad range of pressure settings. Performance meets or exceeds that of competitive pressure loaded or pilot-operated designs. A back pressure regulator or "unloader" is used to maintain outlet pressure through an auxiliary gas supply.



Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

198

Body/Cover Dome Materials

DI/DI, BRZ/BRZ, CS/DI, BRZ/DI, CS/CS, SST/SST, SST/DI, SST/CS

DI = Ductile Iron

SST = Stainless Steel

BRZ = Bronze

CS = Carbon Steel

End connections:

Standard: Female NPT ASME Flanged: 125#, 150#, 250#, 300#, 600# DIN Flanged: PN16, PN25,

PN40 Temperature range:

-50° to +400°F

Max Operating Pressure:

475 psig

MODEL / SLR-1

Model SLR-1 is high performance, self-relieving and reducing regulator. Design includes an internal pressure balancing piston-cylinder that provides high flow capacity and high pressure drop capability. The internal trim design allows the same basic unit to cover a broad range of pressure settings. Performance meets or exceeds that of competitive pressure loaded or pilotoperated designs.



The Model **SLR** is a high performance, self relieving, pressure reducing regulator.

supply to load

the dome.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

198

Body/Cover Dome Materials

DI/DI, BRZ/BRZ, CS/DI, BRZ/DI, CS/CS, SST/SST, SST/DI, SST/CS

DI = Ductile Iron

SST = Stainless Steel

BRZ = Bronze

CS = Carbon Steel

End connections:

Standard: Female NPT. ASME Flanged: 125#, 150#, 250#, 300#, 600#; DIN Flanged: PN16, PN25, PN40

Temperature range:

-50° to +400°F

Max Operating Pressure:

750 psig

MODEL / SLR-2

Model SLR-2 is high performance, pressure loaded diaphragm-type, flow-to-open, non-relieving pressure reducing regulator. Design includes an internal pressure balancing piston-cylinder that provides high flow capacity and high pressure drop capability. Performance meets or exceeds that of competitive pressure loaded or pilotoperated designs. A non-relieving pressure regulator "loader" is bracket mounted to the top of the dome. The set point of the loader controls the upstream supply pressure into the dome to maintain the desired downstream pressure of the SLR-2. Pressure in the dome will constantly bleed out through a filter and check valve which is piped back into the outlet of the body of the pressure reducing regulator.



The Model **SLR-2** is a high performance, non relieving, pressure reducina regulator.

Body sizes: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" Maximum Cv:

198

Body/Cover Dome Materials

DI/DI, BRZ/BRZ, CS/DI, BRZ/DI, CS/CS, SST/SST, SST/DI, SST/CS

DI = Ductile Iron

SST = Stainless Steel

BRZ = Bronze

CS = Carbon Steel

End connections:

Standard: Female NPT. ASME Flanged: 125#, 150#, 250#, 300#, 600# DIN Flanged: PN16, PN25, PN40

Temperature range:

-50° to +400°F

Max Operating Pressure:

3600 psig

MODEL // P1

The Model P1 is designed for gases and liquids with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 psig (.07-.69 Barg) thru 10-750 psig (.69-51.7 Barg). Flow coefficient of 0.02, 0.06, and 0.20 available. This versatile point of use regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm.

Body sizes:

1/4", 3/8", 1/2"

Maximum Cv:

.02, .06 and .20

Materials:

Body/Spring chamber 316L SST Brass/6061 AL

End connections:

FNPT, Tube End, Tri-Clamp



The Model **P1** is a single stage high reaulator.

pressure reducing

MODEL // P2

The Model P2 is designed for gases with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 psig (.07-.69 Barg) thru 10-750 psig (.69-51.7 Barg). Flow coefficient of 0.02, 0.06, and 0.20 available. This versatile cylinder gas regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm. Gauges and CGA fittings are optional.

Body sizes:

1/4", 3/8", 1/2"

Maximum Cv:

.02, .06 and .20

End connections:

Materials:

Body/Spring chamber

FNPT, CGA End Connection

316L SST Brass/6061 AL

316L SST

Brass/6061 AL

Max Inlet: 3,600 psig (248.2 Barg)

Max Outlet: 1-750 psig (.07-51.7 Barg)

Temperature range:

Packed Valve, Diaphragm Valve

-45° to 575° F (-42.7° to 301° C)

Max Inlet: 3,600 psig (248.2 Barg) Max Outlet: 1-750 psig (.07-51.7 Barg)

Options:

Relief Valve

Temperature range:

-45° to 575° F (-42.7° to 301° C)

MODEL // P3

The Model P3 is a 2-stage regulator designed for gases with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 (.07-.69 Barg) thru 10-750 psig (.69-51.7 Barg). Flow coefficient of 0.02, 0.06, and 0.20 available. This versatile cylinder gas regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm. Gauges and CGA fitting are optional.



The Model **P3** is a two stage cylinder high gas pressure reducing regulator.



1/4", 3/8", 1/2" Maximum Cv: .02, .06 and .20 Materials: Body/Spring chamber

Body sizes:

End connections: FNPT, CGA End Connection Temperature range:

-45° to 575° F (-42.7° to 301° C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg) Max Outlet: 1-500 psig (.07-34.5 Barg)

The Model P2

is a single stage

cylinder gas

high pressure reducing

reaulator.

Packed Valve, Diaphragm Valve

MODEL // P4

The Model P4 is designed for gases with inlet pressures up to 3600 psig (248 Barg). Standard adjustable outlet ranges from 1-10 psig (.07-.69 Barg) through 10-500 psig (69-34.4 Barg). Flow coefficient of .6 Cv available. This versatile point of use regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm.

Body sizes:

3/8", 1/2" **Maximum Cv:**

.6 **Materials:**

Body/Spring chamber

316L SST Brass/6061 AL

End connections:

FNPT, Tube End, Tri-Clamp





The Model **P4** is a balanced pressure reducing regulator.

-45° to 275° F (-42.7° to 135° C) **Pressures:**Max Inlet: 3,600 psig (248.2 Barg)

Max Outlet: 1-500 psig (.69-34.4 Barg)

Options:

Relief Valve

Temperature range:

MODEL // P5

The Model P5 is a piston designed regulator for gases and liquids with inlet pressures up to 3600 psig (248 Barg). Flow coefficient of 0.06. This general purpose use regulator can be ordered with a variety of options to meet your system demands. Standard construction includes a 40 micron integral filter, adjustment knob, and diffusion resistant stainless steel diaphragm.

Body size:

1/4", 3/8", 1/2"

Maximum Cv:

Materials:

Body/Spring chamber 316L SST

End connections:

NPT

Temperature range:

-55° to 300° F (-48° to 149° C)

Pressures:

Max Inlet: 3,600 psig (248.2 Barg) Max Outlet: 50-1,500 psig (3.4-103 Barg)

Options:

Mounting Bracket, Panel Mount

The Model **P5**is a piston
designed reducing
regulator.

MODEL // P7

The Model P7 is a piston designed regulator that safely reduces inlet pressures of up to 4500 psig (310 Barg) and accurately delivers high gas flows throughout the 10-1500 psig (.69-103.4 Barg) range. This self-venting unit can be furnished as a non-venting regulator for hydraulic applications.





The Model **P7** can handle pressure up to 4500 psig. **Body sizes:** 1/2". 3/4"

Maximum Cv:

2.0

Materials:

Body/Spring chamber Brass/Brass or

316 SST/316 SST

End connections:

FNPT, 300#, 600#, 1500# Flanges in SST

Temperature range:

-15° to 165° F (-25.0° to 75° C)

Pressures:

Max Inlet: 4500 psig (310.3 Barg) Max Outlet: 10-1500 (.69-103 Barg)

Options:

Dome Loaded, Ratio Loaded, Panel Mount

BACK PRESSURE REGULATORS

Just as pressure reducing regulators respond to and control changes in outlet pressure, back pressure regulators respond to and control changes in inlet pressure. These regulators modulate the discharge rate to maintain a constant pressure on the inlet side. However, back pressure regulators are not safety devices and must not be substituted for codeapproved pressure safety relief valves or rupture discs.

MODEL / BQ

The Model BQ is designed for lower flow installations to control flow rates not covered by Model 123. It is often used in economizer circuits. It is also a popular cryogenic regulator and widely used in chemical process services.

Body sizes: 1/4", 3/8", 1/2" Materials:

Body

Spring chamber DI, BRZ, SST BR, 316 SST Metal-BR, SST -Seat Composition-Buna-N. TFE, EPR, FKM Diaphragm

Phos. BRZ, 302 SST, Neoprene, EPDM,

DI, BRZ, CS, SST

End connections:

Set pressures:

Springs for 5-300 psig

Up to 400 psid

Elgiloy

Temperature range:

-325° F to +600° F

Pressure drop:

Options:

Closing cap,

cryogenic construction, differential construction

The Model BQ is for lower-flow and cryogenic applications.

MODEL // BR

The Model BR is a versatile back-pressure regulator, available either in a globe style or angular porting configuration. Controlling inlet pressures up to 200 psig, it can be utilized in a majority of the general industrial pressure relief applications.

Body sizes:

3/8", 1/2", 3/4", 1" 1-1/2", 2"

Materials:

Body DI, BRZ, CS, 316 SST Spring Chamber DI, BRZ, CS, 316 SST Trim BRZ, 416 SST, 316 SST Seat Metal - BR, SST, Composition-Buna-N, TFE, EPR, Neoprene Phos. BRZ, 302 SST, Neoprene, Diaphragm F.C. Elastomer, EPDM

End connections:

NPT, BSP, Flanged, Extended Nipples

Temperature range:

-325 F to +400 F Set pressures:

Springs for 2-120 psig

Pressure drop:

Up to 260 psid

Options:

Handwheel and locking lever, NACE Construction, Cleaned for O2 Service

> The Model BR is a flow thru, back pressure regulator with set pressures up to 200 psig.



MODEL **// 123**

With five body materials and twenty-three trim material combinations, the Model 123 is compatible with most fluids. It can handle a wide range of flow and pressure settings to match nearly any backpressure application up to a 2" line size. The regulator offers four composition seat materials and controlled compression with metal-to-metal back-up for long life and trouble-free operation.



The Model **123** is a highly versatile, back pressure regulator.





Body Spring chamber Trim Seat

Diaphragm

CI, BRZ, CS, LCC, 316 SST CI, BRZ, CS, LCC, 316 SST

BRZ, 316 SST, 416 SST Metal - BR, 416 SST, 316 SST, Stellite Composition – Buna-N, TFE, EPR, F.C. Elastomer

Phos. BRZ, 302 SST, Neoprene, F.C. Elastomer, EPDM, Buna N.

Phos. BRZ, Neoprene, FKM

End connections:

NPT, flanged, extended nipples

Temperature range:

-325° F to +450° F Set pressures:

Springs for 2-350 psig

Pressure drop:

Up to 525 psid

Options:

Closing cap, cryogenic construction, differential construction, NACE service

MODEL // 1171

The Model 1171 is a back pressure/relief regulator suitable for most liquid and gas applications including pump by-pass and modulating back pressure relief services.

> The Model 1171 brass-bodied BPR is for low-flow general service.



Body sizes: 3/8", 1/2"

Materials:

Brass Body Spring chamber BRZ Trim BR Metal – BR Seat Composition – TFE

Diaphragm

End connections: NPT

Temperature range:

-325° F to +400° F

Set pressures: Springs for 5-200 psig

Pressure drop: Up to 400 psid

Options:

Inlet pressure gauge, panel mounting, cryogenic construction

MODEL // 1164

The Model 1164 back pressure regulator is equipped with a variety of body and trim materials that make it compatible with many fluids and chemicals. Its large orifice and diaphragm combine sensitivity with high capacity.

> The Model **1164** is an economical back pressure regulator.



Body sizes:

3/4", 1", 1-1/2", 2"

Materials:

Body Spring chamber CI, BRZ, CS Trim Seat

Diaphragm

DI, BRZ, CS 416 SST, 316 SST

Metal – 316 SST

Composition – TFE

Phos. BRZ, TFE-coated, 302 SST

End connections:

NPT, BSP

Temperature range:

-20° F to +400° F

Set pressures:

Springs for 5-150 psig

Pressure drop:

Up to 225 psid

MODEL / 6987

This heavy-duty, angle-bodied back pressure regulator can handle high inlet and outlet pressures plus high pressure drops. Six range springs provide wide setpoint selection. Applications include fuel, oil, water, inert gases, air and chemicals.

> The Model 6987 is a heavy-duty high-pressure back pressure regulator.



Body sizes:

1/2", 3/4"

Materials: Body

CS, SST Spring chamber CS Trim 316 SST Seat Metal – 316 SST, Stellite

Diaphragm 302 SST

End connections:

- NPT Standard

Optional - Flanged 300# or 600#, Plain End Pipe Nipples

Temperature range:

-20° F to +450° F

Set pressures:

Springs for 50-800 psig

Pressure drop:

Up to 960 psid

Options:

Closing cap, reduced

orifice seats, differential and NACE

MODEL / 2171

Model 2171 is similar in design and capacity to its brassbodied counterpart, but its SST body and trim enable it to handle an even wider range of fluids.

Model **2171**is a stainless
steel low-flow
back pressureregulator.



Body sizes:

1/4", 3/8", 1/2"

Materials:

Body Spring chamber Trim Seat

Composition – TFE
Diaphragm 302 SST, Neoprene,

TFE-coated, 302 SST, FL Elastomer

316L SST

316 SST

316 SST, BRZ

Metal – 316 SST

End connections:

NPT, flanged

Temperature range:

-325° F to +400° F

Set pressures:

Springs for 5-500 psig

Pressure drop:

Up to 600 psid

Options:

Cryogenic construction, inlet pressure gauge, special pharmaceutical/food industry construction

MODEL **# 8311HP & 8311LP**

When air and electric controls are not available, these reliable high-capacity regulators can be used in place of control valves. Dual-port construction makes these our highest-capacity back pressure regulators. Both models share the same basic design, differing only in diaphragm size.





Body sizes:

1-1/2", 2", 2-1/2", 3", 4"

Materials:

Body CI, CS Spring chamber CI, DI, CS Trim 316 SST

Seat Metal – 316 SST, Stellite
Diaphragm 302 SST, Neoprene,
F.C. Elastomer

End connections:

1-1/2", 2" — NPT, CI or CS All Sizes — 125#, 250# flange, CI All Sizes — 150#, 300# flange, CS

Temperature range:

-20° F to +450° F

Set pressures:

8311HP – springs for 10-145 psig, options 130-200 psig 8311LP – springs for 1-30 psig

Pressure drop:

Up to 260 psid

Options:

Closing cap

MODEL // CA-1 & CA-2

Designed for lower flow applications. It is often used in small pump set applications as well as the cryogenic and compressed gas industry. Metal lapped seats allow for leakage rate to approach levels of composition seats.

The Models **CA-1**and **CA-2** are
compact forged
bronze back
pressure regulators.





Body sizes:

1/8", 1/4", 3/8" and 1/2"

Flow designs:

Globe, Angle, Flow-thru

Materials:

Body Forged Bronze, 316 SST
Spring chamber
Trim 316 SST
Seat Metal

Diaphragm 302 SST, Buna-N

End connections:

NPT

Temperature range:

-325° F to +300° F

Set pressures:

CA1 – springs for 2-400 psig CA2 – springs for 3-610 psig

Options:

Closing Caps, Cryogenic, Handwheel and Panel Mounting

MODEL / 31-B

The Model 31-B is a compact relief regulator designed expressly for use as a back pressure regulator or bypass valve for controlling inlet pressure between 2 and 16 inches - W.C. (mm H2O) range. Body is available in cast carbon steel or stainless steel materials only. Interior wetted trims for corrosive applications is standard.



Body sizes:

1/2", 3/4", 1", 1-1/2" and 2" (20, 25, 40 and 50) NOTE: Inlet and outlet same size.

Materials:

Body CS, SST Spring chamber CS, SST Trim 316 SST

Seat Buna-N, Silicone, TFE, FC.

Elastomer

Diaphragm Buna-N, F.C. Elastomer

End connections:

Standard: NPT Female

Option-30: Weld-on 150# RF Flanges Option-32: Extended Plain End Nipples

Temperature range:

-30° F to 400° F

Set pressures:

Multiple springs covering 2.0" - 16.0"

W.C. (50 - 400 mm H2O)

Options:

NACE

MODEL // DA-5

The DA5 is an excellent back pressure regulator for all fluid types. The regulator features a high flow design with standard balanced trim. The balanced trim allows rangeability up to 500:1; allowing for varying flows with very little change in set pressure. Due to the high capacities these regulators provide, it is now possible to install regulators where control valves once were needed. This allows additional savings since controllers, positioners, and auxiliary air are not needed. The Model DA8 is similar to this regulator except it provides positive bias differential construction.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

187

Materials:

BodyBRZ, DI, CS, HC, 316 SST, Duplex SSTSpring chamberBRZ, DI, CS, 316 SST, Duplex SSTTrim17-PH SST, 316L SST, MonelSeatPolyAll, V-TFE, GF-TFE, C+TFE, FKMDiaphragmComposition – BC, EPR, FKM, FK, NBR,

FKM + TFE, Elast. TFE

Metal – Be-Cu

End connections:

NPT, 125#-250#, 150#-600# Integral Flanged, PN16, PN25, PN40 DIN Flanged, Extended Pipe Nipples or Tube End Construction

Temperature range:

-425° to +400° F

Set pressures:

Springs for 1-450 psig

Options:

NACE, Cleaned for O2 Service, Cleaned for Chlorine Service



The Model
DA5 is a high
capacity self
contained
back pressure
regulator.

MODEL / DA-6

The DA6 is a pressure loaded back pressure regulator for all fluid types. Much like the DA5, the ability to allow varying flows with little change in set pressure makes this an ideal regulator for high accuracy applications. When the precision of automated controls cannot be sacrificed, the dome-loaded series is ideal. The ability to load the regulator with a wide variety of pilots, airsets, and I/P transducers allows for accuracy and automation in a small inexpensive package.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4"

Maximum Cv:

150

Materials:

Body
Cover Dome
BRZ, DI, CS, HC, LCC, 316 SST
BRZ, DI, CS, LCC, 316 SST
Trim
17-PH SST, 316L SST, Monel
Seat
PolyAll, V-TFE, GF-TFE, C+TFE, FKM
Diaphragm
Composition – BC, EPR, FKM, FK, NBR,

FKM + TFE, Elast. TFE

Metal – Be-Cu

End connections:

NPT, 125#-250#, 150#-600# Integral Flanged, PN16, PN25, PN40 DIN Flanged, Extended Pipe Nipples or Tube End Construction

Temperature range:

-425° to +400° F

Loading set pressures:

2.0" W.C. - 750 psig

Options:

NACE, Cleaned for O2 Service, Cleaned for Chlorine Service



pressure loaded

back pressure

regulator.

MODEL // DA-8

The DA8 is a positive bias differential back pressure regulator for all fluid types. Much like the DA5, the ability to allow varying flows with little change in set pressure makes this an ideal regulator for high accuracy applications.



The Model

DA8 is a

positive bias

differential
back pressure
regulator.

Body sizes:

1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3", 4"

Maximum Cv:

187

Materials:

Body

Spring chamber

Trim

Seat

Diaphragm

BRZ, DI, CS, 316 SST BRZ, DI, CS, 316 SST

17-PH SST, 316L SST, Monel PolyAll, V-TFE, GF-TFE, C+TFE, FKM

Composition – BC, EPR, FKM, FK, NBR,

FKM + TFE, Elast. TFE Metal – Be-Cu End connections:

NPT, 125#-250#, 150#-600#

Integral Flanged, PN16, PN25, PN40 DIN Flanged, Extended Pipe Nipples or Tube End Construction

Temperature range:

-425° to +400° F

Set pressures:

Springs for 1 to 200

Options:

Cleaned for O2 Service, Cleaned for

Chlorine Service

MODEL // B2

The Model B2 is designed for gases and liquids with control ranges up to 750 psig (51.7 Barg). Flow coefficient of 0.10, 0.20, and 0.30 are available. This versatile back pressure regulator can be ordered with a variety of options to meet your system demands. Standard construction includes an adjustment knob and diffusion resistant stainless steel diaphragm.

Body sizes:

1/4", 3/8", 1/2" **Maximum Cv:**

0.1, 0.2 and 0.3

Materials:

Body/Spring chamber

316L SST/316L SST Brass/6061 AL



End connections:

FNPT, Tube End, Tri-Clamp

Temperature range:

-45° to 575° F (-42.7° to 301° C)

Set pressures:

Springs for 1-750 psig (.07-51.7 Barg)

MODEL / B7

The Model B7 is a self-contained, back pressure/relief regulator designed to control inlet setpoint pressure between 10-1150 psig.

Body sizes:

1/2", 3/4" in Angle,

Globe or Flow-thru pattern

Maximum Cv:

2.5

Body Material:

316L SST or Brass Barstock

Trim:

SST, Brass Seat-SST,

Brass or PTFE, Stellite

Temperature range:-35° to 400° F

Set pressures:

Inlet to 1150 psig









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