



INDUSTRIAL REGULATORS



Get Consistent Quality

By involving every employee in our ISO 9001:2015 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 costeffective 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 singlesource 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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At Cashco we have been creating innovative pressure control solutions to meet the needs of American industry since 1914. Today you'll find the Cashco name on an extensive line of self-contained regulators, control valves, and vapor control systems that are available globally according to PED, CE, ATEX, and CRN.

Cashco regulators, control valves, and vapor control systems are in use worldwide, covering a wide range of applications. We believe our quality is surpassed only by the service we provide to ensure you get the product you need — when you need it.

When you contact Cashco or our representatives, you will discover the care we take to help you specify the best valve for your application and the speed with which we handle your order — large or small.

If you don't find what you're looking for in the following pages, we will be glad to provide you with personal assistance and technical literature. Please call 785.472.4461 or email us at: sales@cashco.com. You may also review our entire product offering at www.cashco.com.

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.

The Model

1000HP is a

self-contained

pressure

reducing

regulator.

Body sizes:

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

Maximum Cv: 1.35 to 22

Materials:

Body Spring chamber Trim Seat

DI, BRZ, CS, 316 SST DI, BRZ, CS, 316 SST BR, 416 SST, 316 SST Metal - SST Composition - Buna-N, EPR,

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

End connections:

Diaphragm

NPT, BSP, Flanged, Extended Pipe Ends, flanges in ASME or DIN

Temperature range:

-325° F to +600° F, (-198° C to +315° C), (special construction to -425° F), (-232° C)

Pressures:

Inlet: up to 740 psig standard, (51 barg) Outlet: 10 to 300 psig, (0.7 - 20 barg)

Pressure drop:

Up to 650 psig, (44 barg)

Options:

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

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

```
Spring chamber
Trim
```

Seat

Diaphragm

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

End connections:

NPT, BSP, Flanged, Extended Nipples, flanges in ASME or DIN

CI, BRZ, CS, 316 SST

CI, BRZ, CS, 316 SST

Metal – BR, SST

BRZ, 416 SST, 316 SST

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

Temperature range:

-325° F to +400° F, (-198° C to +204° C)

Pressures:

Model D Inlet: up to 400 psig, (22 barg) Model DL Inlet: up to 300 psig, (20 barg) Model D Outlet: up to 250 psig, (17 barg) Model DL Outlet: up to 150 psig, (10 barg)

Pressure drop:

Up to 350 psid, (24 barg)

Options:

Handwheel and locking lever

The Model **D** is an economical industrialgrade regulator.

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.

CI, BRZ, CS, 316 SST

BR, 416 SST, 316 SST

TFE, F.C. Elastomer

Phos. BRZ, 302 SST,

Neoprene, F.C.

Elastomer, EPDM

Composition – Buna-N,

Metal – SST



Body sizes:

1/2", 3/4", 1" Maximum Cv: 3 to 9 Materials:

Body Spring chamber CI, CS, 316 SST, BRZ

Trim

End connections:

NPT, BSP, Flanged, Extended Pipe Ends, flanges in ASME or DIN

Temperature range:

-20° F to +600° F, (-6° C to +315° C)

Pressures:

Inlet: up to 450 psig standard, (31 barg) Outlet: 1 to 30 psig, (0.069 - 2barg) **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, (232° C)

Pressures:

Inlet: up to 300 psig, (20 barg) Outlet: 5 to 150 psig, (0.34 - 10 barg) Pressure drop: Up to 200 psid, (13 barg) **Options:**

Pressure loaded main valve

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

Diaphragm

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 reaulator 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: DI, CS Body Seat Metal – HDN 416 SST Diaphragm 302 SST – pilot only

End connections: NPT, Flanged, flanges in ASME or DIN

Temperature range:

Up to +450° F, (+232° C)

Pressures:

Inlet: up to 300 psig, (20 barg) Outlet: 5 to 150 psig, (10 barg)

Pressure drop:

Up to 200 psid, (13 barg)

Options:

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

- Spring chamber
- Trim Seat
- CS, 316 SST her CS, 316 SST 316L SST Composition – Buna-N, Silicone, F.C. Elastomer

Diaphragm End connections:

NPT, Flanges, Extended Nipples, flanges in ASME or DIN



Temperature range:

-30° F to +400° F, (-34° C to +204° C) **Pressures:**

Inlet: up to 100 psig, (6.9 barg) Outlet: 2" W.C. to 16" W.C., (5 mbarg to 40 mbarg)

Pressure drop:

Up to 100 psid, (6.9 bard)

Options: Pharmaceutical r and food industry

and food industry construction The Model **31-N** is a regulator designed for up to 16" W.C. control.

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.

Body size: 1/4"

Maximum Cv:

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

316 SST

SST

BR, 316L SST

Elgiloy, FKM

Metal – Stellite

302 SST, Neoprene,

Body Spring chamber Trim Seat Diaphragm

End connections:

NPT

Temperature range: -20° F to +400° F, (-28° C to +204° C)



Pressures:

Inlet: up to 5000 psig, (344 barg) Outlet: 5 to 500 psig, (0.34 - 34 barg)

Pressure drop:

Up to 4700 psid, (324 bard)

Options:

NACE construction, high outlet pressure construction

End connections:

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.

Buna-N, F.C. Elastomer

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



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

NPT Temperature range: -325° F to +400° F, (-198° C to +204° C) Pressures: Inlature to 200 psig. (F5 base)

Inlet: up to 800 psig, (55 barg) Outlet: 5 to 300 psig, (0.34 - 20 barg) **Options:**

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

MODEL **// 4381**

Body sizes:

0.5

Materials:

Body

Trim

Seat

Diaphragm

Maximum Cv:

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

Spring chamber

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.

SST

SST

BRZ, 316L SST

Metal - 316 SST

302 SST, TFE-coated

SST, Neoprene, EPDM

Composition – TFE, EPDM

The Model

4381 is a SST-

bodied regulator

for low-flow

service.



End connections:

NPT, Flanges, flanges in ASME or DIN Temperature range:

-325° F to +400° F, (-198° C to + 204° C) **Pressures:**

> Inlet: up to 1500 psig, (103 barg) Outlet: 2 to 500 psig, (140 mbarg to 34 barg)

Options:

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

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, (-198° C to +82° C) Pressures: 600 psig Max, (41 barg)

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.

Body sizes:

1/4", 3/8" Maximum Cv: .48

Materials:

Body Spring chamber Trim Seat Diaphragm

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.

Body sizes:

1/4"

Maximum Cv:

.49 Materials:

Body Spring chamber Trim Seat Diaphragm

Max Cv of .48 Bronze - ASTM B283, C37700

Metal - 302 SST, Composition-Gylon

The Model

PBE is a

compact

pressure build/

economizer up

to 1/4".

Brass - ASTM B16, Alloy 360

BR

TFF

Gylon, 302 SST

Bronze - ASTM B283, C37700

316/316L SST - ASTM A479

Brass, SST

or Buna-N

TFE or Buna-N

The Model

MPRV-L is a compact reaulator with a

British Std Tapered Pipe Threads, **FNTP** Temperature range:

-325 to +180°F, (-198° C to +204° C)

Pressures:

End connections:

600 psig Max, (41 barg)

British Std Tapered Pipe threads, **FNPT**

Temperature range:

-325 to +150°F, (-198° C to +65° C)

Pressures:

600 psig Max, (41 barg)



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:		End connections:	
1/2"		British Std Tapere	ed Pipe Threads, FNPT
Maximum Cv:		Temperature range	27
1.21	-325 to +150°F,		
Materials:		(-198° C to +65° C	The Model
Body	Bronze	Pressures:	PBE-L is a
Spring chamber	Bronze	600 psig Max,	compact pressure
Trim	BR	(41 barg)	build/economic
Seat	TFE		regulator.
Diaphragm	Metal – 302 SST, Composition or Gylor	١	

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.

Body sizes:		End connec
1/2"		British S
Maximum Cv:		Temperatu
1.80		-325 to -
Materials:		(-198° C
Body	Bronze - ASTM B62 C83600	Pressures:
Spring chamber	Bronze - ASTM B62 C83600	400 psig
Trim	Br	(27 barg
Seat	TFE	
Diaphragm	Phos. Bronze, 302 SST, or Gylon	

CS, SST, Mn BRZ

Metal - 316 SST

Composition-TFE or Nylon

TFE coated SST, SST or Neoprene

316 SST

ctions: td Tapered Pipe Threads, FNPT re range: +150°F, to +65° C) The Model **PBE-H** is a Max, 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:

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

4.39

Materials: Body Spring chamber CS, SST, Mn BRZ Trim

Seat

Diaphragm

End connections:

NPT, Flanged, BSP, Extended Pipe Ends, flanges in ASME or DIN

Temperature range:

-20° F to +600° F, (-201° C to +315° C)

Pressures:

Inlet: up to 3000 psig, (206 barg) Outlet: 10 to 750 psig, (4 to 51 barg)

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

Materials:

BodyCI, CSSpring chamberDI, CSTrimSSTSeatTFE, Rulon – 316 SST, StelliteDiaphragm302 SST, Neoprene,

ragm 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, (-29° C to +232° C)

Pressures:

HP – Inlet: up to 650 psig, (44 barg) / LP – Inlet: up to 200 psig, (13 barg)

HP – Outlet: 10 to 200 psig, (0.69 to 13 barg) /

LP – Outlet: 1 to 30 psig, (0.07 to 2 barg)

Pressure drop: HP – up to 450 psid, (31 bard) /

LP – up to 200 psid, (13 bard) Options:

Difforent

Differential service construction



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:

Trim

Seat

1/2", 3/4", 1" **Maximum Cv:** Up to 1.8 **Materials:** Body Spring chamber

Alum. BRZ, SST per BRZ 316 SST Metal – 316 SST, Stellite Composition – TFE, Nylon

End connections:

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

Temperature range:

Up to +400° F, (204° C)

Pressures:

Inlet: up to 4000 psig, (275 barg) Outlet: 50 to 3000 psig, (4 to 206 barg)

Pressure drop:

Up to 3000 psid, (206 bard)

Options:

Weld-on flanges

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

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 End connections: **Body sizes:** The DA1 is an excellent pressure reducing regulator for all fluid NPT, 125#-250#, 150#-600# Integral 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" types. Whether it is GOX or a viscous fluid, the Model DA1 is Flanged, PN16, PN25, PN40 DIN Maximum Cv: able to provide constant and accurate control through the Flanged, Extended Pipe Nipples, 198 Tube End Construction or BSP necessary range of flow of your application. The regulator Materials: Temperature range: features a high flow design with balanced trim as a standard. Body BRZ, DI, CS, HC, Duplex SST, 316 SST -425° to +400° F, (-253° C to +204° C) Spring chamber BRZ, DI, CS, Duplex SST, 316 SST The balanced trim allows rangeability up to 1000:1 for **Inlet Pressure:** 17-PH SST, 316L SST, Monel Trim varying flows with very little change in set pressure. Due to 10 - 1480 psig, (0.69 - 102 barg) Seat PolyAll, V-TFE, GF-TFE, C+TFE, the high capacities these regulators provide, it is now **Outlet Pressure:** NBR, BC, FKM possible to install regulators where control valves were 1-450 psig, (0.07 - 31 barg) Composition - BC, EPR, FKM, FK, Diaphragm **Options:** The Model DA1 once needed. This allows additional savings since NBR, FKM + TFE, Elast. TFE NACE, Cleaned for O2 Service, is a hiah capacity Metal – Be-Cu controllers, positioners, and auxiliary air supply are no Cleaned for Chlorine Service pressure reducing longer needed. regulator. MODEL / DA2 Body sizes: End connections: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 3", 4" NPT, 125#-250#, 150#-600# Integral Maximum Cv: Flanged, PN16, PN25, PN40 DIN Flanged, The DA2 is a positive bias differential pressure reducing 196 Extended Pipe Nipples, Tube End

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.

> The Model DA2 is a positive bias differential pressure reducing regulator.

Materials: Body

Diaphragm

Spring chamber Trim Seat

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

Construction or BSP

Temperature range:

-425° to +400° F, (-253° C to + 204° C)

Inlet Pressure:

10 - 3705 psig, (0.69 - 255 barg) **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.)

The Model DA4 is a dome loaded high capacity 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 Cover Dome Trim

Seat

BRZ, DI, CS, Duplex SST, 316 SST BRZ, DI, CS, Duplex SST, 316 SST 17-PH SST, 316L SST, Monel PolyAll, V-TFE, GF-TFE, C+TFE, BC, NBR, 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, Tube End Construction or BSP

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.



Temperature range:

10 - 3705 psig,

(0.69 - 255 barg)

(0.04 - 103 barg)

2.0" W.C. - 1500 psig,

NACE, Cleaned for O2 Service,

Cleaned for Chlorine Service

Inlet Pressure:

Outlet Pressure:

Options:

-425° to +400° F,

(-253° C to +204° C)

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.

Body sizes:

1/2", 3/4", 1", 1-1/2", 2" Maximum Cv: 50 Materials: SST Body Cover Dome SST Trim 17-PH SST, 316L SST V-TFE, PA, C-TFE Seat

End connections:

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

Temperature range:

-20° to +400° F, (-29° C to +204° C)

Inlet Pressure: 50 - 3600 psig, (4 - 248 barg)

Outlet Pressure: 1225 psig, (84 barg)

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

Bodv sizes:

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

Maximum Cv:

220 Materials: Body

Trim Seat

DI, CS Cover Dome DI, CS 17-PH SST GF-TFE

End connections:

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

Temperature range:

+100 F to +406° F, (+38° C to + 208° C)

Inlet Pressure:

35 - 400 psig, (2.4 - 27 barg)

Outlet Pressure:

2 - 215 psig, (0.13 - 14 barg)



MODEL // PGR-1

Model PGR-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. 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.



Body sizes: 1", 1-1/2", 2", 3", 4" Maximum Cv: 198 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. (-56° C to +121° C) Inlet Pressure: 10 - 400 psig **Outlet Pressure:** 2.0" W.C. - 200 psig

MODEL // ULR-1

Model ULR-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 piped to the top of the dome and is "set" to control the outlet pressure of the pressure reducing regulator.

MODEL // PTR-1

Model PTR-1 is high performance, pressure loaded diaphragm-type, flowto-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.



Body sizes:

Body sizes:

198

The Model

PTR-1 is

a precise

control reaulator.

Maximum Cv:

Body/Cover Dome Materials

BRZ/BRZ SST/SST

SST = Stainless Steel

BRZ = Bronze

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

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

End connections:

Standard: Female NPT ASME Flanged: 125#, 150#, 250#, 300#, 600# DIN Flanged: PN16, PN25, PN40 Temperature range: -50° to +400°F,

(-45° C to +204° C)

Max Operating Pressure:

475 psig, (32 barg)

End connections:

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

Temperature range:

-325° to +400°F, (-198° C to +204° C)

Max Operating Pressure: 475 psig, (32 barg)





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.

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.

The Model

ALR uses

auxiliary gas

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:

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

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

198 **Body/Cover Dome Materials**

Body/Cover Dome Materials

SST/SST, SST/DI, SST/CS

DI = Ductile Iron

CS = Carbon Steel

BRZ = Bronze

SST = Stainless Steel

Body sizes:

Maximum Cv:

198

DI/DI, BRZ/BRZ, CS/DI, BRZ/DI, CS/CS, SST/SST, SST/DI, SST/CS DI = Ductile Iron SST = Stainless Steel BRZ = BronzeCS = 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, (-45° C to +204° C)

Max Operating Pressure:

475 psig, (32 barg)

End connections:

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

Temperature range:

-50° to +400°F. (-45° C to +204° C)

Max Operating Pressure: 750 psig, (51 barg)

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 hiah 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 IronSST = 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, (-45° C to +204° C)

Max Operating Pressure:

3600 psig, (248 barg)

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.

Brass/6061 AL

Temperature range:

Relief Valve

Pressures:

Options:

-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)

Body sizes:

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

Body/Spring chamber 316L SST

- End connections:
 - FNPT, Tube End, Tri-Clamp



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

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 Materials:

> Body/Spring chamber 316L SST Brass/6061 AL

End connections: FNPT, CGA End Connection The Model P2

is a single stage cylinder gas high pressure reducing reaulator.

Temperature range: -45° to 575° F (-42.7° to 301° C)

Pressures: Max Inlet: 3,600 psig (248.2 Barg) Max Outlet: 1-750 psig (.07-51.7 Barg) **Options:** Packed Valve, Diaphragm Valve

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.



Body sizes:

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

Materials: Body/Spring chamber

Brass/6061 AL

316L SST

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)

Options:

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 bhragm. **Temperature range:** -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

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:

The Model <mark>P4</mark>

is a balanced

pressure

reducing

regulator.

1/4", 3/8", 1/2" **Maximum Cv:** .06 **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 nonventing regulator for hydraulic applications.



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

2.0

Materials: Body/Spring chamber Brass/Brass or

The Model P7

can handle

pressure up to

4500 psig.

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

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.

TFE, EPR, FKM

Phos. BRZ, 302 SST,

Neoprene, EPDM,

Body sizes:

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

 Body
 DI, BRZ, CS, SST

 Spring chamber
 DI, BRZ, SST

 Trim
 BR, 316 SST

 Seat
 Metal-BR, SST –

 Composition-Buna-N.

Diaphragm

Elgiloy End connections:

NPT, flanges in ASME or DIN



differential construction

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 Spring Chamber Trim Seat

Diaphragm

DI, BRZ, CS, 316 SST DI, BRZ, CS, 316 SST BRZ, 416 SST, 316 SST Metal - BR, SST, Composition-Buna-N, TFE, EPR, Neoprene Phos. BRZ, 302 SST, Neoprene, F.C. Elastomer, EPDM

End connections:

NPT, BSP, Flanged, Extended Nipples, flanges in ASME or DIN

Temperature range: -325° F to +400° F, (-198° C to +204° C) Set pressures: Springs for 2-120 psig, (0.13 - 8 barg) Pressure drop: Up to 260 psid, (18 bard)

Options:

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



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.



Temperature range:

-325° F to +450° F, (-198° C to +232° C) Set pressures:

Springs for 2-350 psig, (0.13 - 24 barg) **Pressure drop:**

Up to 525 psid, (36 bard)

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: Body

Spring chamber BRZ Trim BR Seat Meta

Seat Metal – BR Composition – TFE Diaphragm Phos. BRZ, Neoprene, FKM

Brass

End connections: NPT

Temperature range:

-325° F to +400° F, (-198° C to +204° C) Set pressures:

Springs for 5-200 psig, (0.34 - 13 barg) **Pressure drop:**

Up to 400 psid, (27 bard)

Options: Inlet pressure gauge, panel mounting, cryogenic construction

18

MODEL // 1164 Temperature range: **Body sizes:** -20° F to +400° F, 3/4", 1", 1-1/2", 2" (-29° C to +204° C) Materials: The Model 1164 back pressure regulator is equipped with a Set pressures: DI, BRZ, CS Body variety of body and trim materials that make it compatible Springs for 5-150 psig, Spring chamber CI, BRZ, CS with many fluids and chemicals. Its large orifice and (0.34 - 10 barg) Trim 416 SST, 316 SST Pressure drop: diaphragm combine sensitivity with high capacity. Seat Metal – 316 SST Up to 225 psid, Composition – TFE (15 bard) Diaphragm Phos. BRZ, TFE-coated, 302 SST End connections: The Model 1164 NPT, BSP is an economical back pressure regulator.

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: Standard – NPT

Standard Optional

Flanged 300# or 600#,
 Plain End Pipe Nipples
 Flanges in ASME or DIN

Temperature range: -20° F to +450° F, (-29° C to +232° C) Set pressures: Springs for 50-800 psig, (3 - 55 barg) Pressure drop: Up to 960 psid, (66 bard) 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

Diaphragm

End connections: NPT, flanged

316L SST 316 SST, BRZ 316 SST Metal – 316 SST Composition – TFE 302 SST, Neoprene, TFE-coated, 302 SST, FL Elastomer

Temperature range:

-325° F to +400° F, (-198° C to +204° C)

Set pressures:

Springs for 5-500 psig, (0.34 - 34 barg)

Pressure drop:

Up to 600 psid, (41 bard) **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.

> The Models 8311HP and 8311LP are high-capacity regulators and ideal for remote installations.



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

Materials:

BodyCI, CSSpring chamberCI, DI, CSTrim316 SSTSeatMetal – 316 SST, StelliteDiaphragm302 SST, Neoprene,

End connections:

1-1/2", 2" – NPT, C All Sizes – 125#, 2 All Sizes – 150#, 3

Temperature range:

-20° F to +450° F, (-29° C to +232° C)

Set pressures:

8311HP – springs for 10-145 psig, (0.69 - 10 barg) options 130-200 psig, (9 -13 barg) 8311LP – springs for 1-30 psig, (0.069 - 2 barg)

Pressure drop:

Up to 260 psid, (18 bard)

Options:

Closing cap

– NPT, Cl or CS – 125#, 250# flange, Cl

– 150#, 300# flange, CS

F.C. Elastomer

MODEL

CA-1

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.



MODEL

CA-2

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 Bronze, 316 SST Trim 316 SST Seat Metal Diaphragm 302 SST, Buna-N End connections: NPT Temperature range: -325° F to +300° F, (-198° to +149° C) Set pressures: CA1 – springs for 2-400 psig, (0.14 - 27 barg) CA2 – springs for 3-610 psig, (0.2- 42 barg) **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.



Bodv	sizes:
Duuy	512051

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, (-34° C to +204° C) **Set pressures:** Multiple springs covering 2.0" - 16.0"

W.C. (50 - 400 mm H2O), (5 mbarg - 40 mbarg) 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:

> Body Spring chamber Trim Seat Diaphragm

BRZ, DI, CS, HC, 316 SST, Duplex SST BRZ, DI, CS, 316 SST, Duplex 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, (-254° C to +204° C)

Set pressures:

Springs for 1-450 psig, (0.07 - 31 barg) Options:

NACE, Cleaned for O2 Service, Cleaned for Chlorine Service



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 Trim Seat Diaphragm

BRZ, DI, CS, LCC, 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

BRZ, DI, CS, HC, LCC, 316 SST

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, (-254° C to +204° C)

Loading set pressures:

2.0" W.C. - 750 psig, (5 mbarg - 51 barg) **Options:** NACE, Cleaned for O2 Service, Cleaned for Chlorine Service



The Model **DA6** is a high capacity pressure loaded back pressure regulator.



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

The Model **B2** is a high pressure back pressure regulator.

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:

Bodv Material: 316L SST or Brass Barstock

Trim:

2.5

SST, Brass Seat-SST, Brass or PTFE, Stellite

Temperature range: -35° to 400° F,

(-37° C to +204° C) Set pressures: Inlet to 1150 psig, (80 barg)

The Model **B7** is a back pressure regulator that maintains set points up to 1150.

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