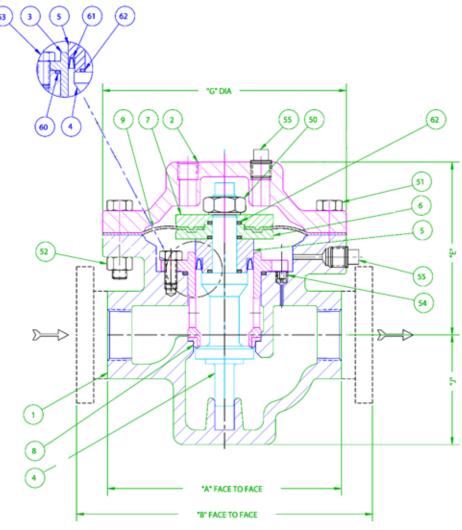
BD Series 3





About This Valve

Simplest dome-loaded regulator or 1:1 "mimic" valve. Loading signal essentially equals P2 minimum ΔP of 2-3 psi.

ITEM NO.	QTY REQ.	DESCRIPTION				
62	3	STEM SEAL				
61	1	PISTON SEAL				
60	1	CYLINDER SEAL				
55	2	PIPE PLUG				
54	1	INTERNAL PLUG				
53	3	CYLINDER BOLT				
52	8	BODY NUT				
51	8	BODY BOLT				
50	1	STEM NUT				
9	1	MEMBRANE				
8	1	SEAT				
7	1	UPPER MEMBRANE PLATE				
6	1	LOWER MEMBRANE PLATE				
5	1	PISTON				
4	1	STEM				
3	1	CYLINDER				
2	1	COVER				
1	1	BODY				

Dimensions

Dimensions are subject to change. Contact factory for certification

I	Size	1/2"	3/4"	1"	1.5"	2"	3"	4"
	PRV with elastomeric membrane	4.0	8.0	15.0	30.0	60	120	220

Cv Table*

Value	lve "A" Screwed ze Ends	"B" Flanged Ends								"E"	"G"	"J"
Size		125# C.I./D.I.	150# C.S./S.S.	150# Bronze	250# C.I./D.I.	300# C.S./S.S.	300# Bronze	600# C.S./S.S.	1500# C.S./S.S.	Dim.	Dim.	Dim.
1/2"	6"		8 3/8"	9 5/8"		8 3/8"	9 5/8"			4 7/16"	6 1/4"	2 13/16"
3/4"	6"		8 3/8"	9 5/8"		8 3/8"	9 5/8"			4 7/16"	6 1/4"	2 13/16"
1"	6"		8 3/8"	9 5/8"		8 3/8"	9 5/8"			4 7/16"	6 1/4"	2 13/16"
1 1/2"	9 7/8"		12 1/2"	11 1/2"		12 1/2"	11 1/2"	13 1/2"		5 1/2"	7"	3 3/4"
2"	9 7/8"		12 1/2"	11 1/2"		12 1/2"	11 1/2"	13 1/2"		5 1/2"	8"	4"
2 1/2"		10 7/8"	10 7/8"	10 7/8"	11 1/2"	11 1/2"	11 1/2"			9"	10"	5 1/4"
3"		12"	12"	12"	12 1/2"	12 1/2"	12 1/2"			9 5/32"	10 3/4"	5 5/16"
4"		14"	14"	14"	14 1/2"	14 1/2"	14 1/2"			9 5/32"	10 3/4"	5 5/16"

General Specifications:

Sizes: 1/2 in. through 4 in.

Body Materials: Cast Iron, Carbon Steel, Bronze, Stainless Steel, Hastelloy®, Alloy 20

Trim Materials: 17-4 PH or 316L S.S., Monel, Hastelloy®, Stellite, others

Diaphragm Materials: 6-ply special composition (Teflon, Viton, Teflon) Virgin Teflon, Viton, Neoprene, Buna N, EPR, Fluorosilicone, Beryllium Copper, Stainless Steel, others.

Seats: Extensive selection includes: Polyurethane, Virgin TFE, Viton, C-TFE (KEL-F), Reinforced TFE

Cv Rating: Controllable Cv Range, 4 to 220
Set Points: To Inches of Water Column (With Pilot)
Max. Inlet & Outlet Pressure: 3000 psig @100°F
Actuators: Elastomeric Membrane, Metal Membrane

Temperature Limits: -425° to 600°F

End Connections: Threaded, Flanged, Socket Weld, Butt Weld, Tube, Tri-Clamp, DIN, BSP, Others Cv Rangeability: 1000:1 (with polyurethane seat)

Sensitivity: 1/8 in. W.C.

Dynamic Response: 10 cps (cycles per second)
Trim: Top Entry, Balanced, Quick-Change, Single Seat
Inlet Sensitivity Effect: Minimal due to balanced design.

Outlet pressure changes by 3 to 8 psig for every 100 psig variation in

inlet pressure, inversely.

Sensing: Internal or external

Ratio-Loaded Configuration: Available for controlling set point when control signal is too low.

^{*}Contact factory for metal membrane or reduced Cv trim.