



MATERIALS OF CONSTRUCTION
 Models: BV0.75A, BV1A, BV1.25A,
 BV1.50A, BV2A

Page Number	501-099
Effective	July 2018
Replaces	April 2015
Section	501

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS
Cap, Cover, Body	Ductile Iron: ASTM A536	
Adjusting Stud & Nut Assy. / Screw	Steel	
Valve	Cast Iron: ASTM A48	
1.25, 1.5	Ductile Iron ASTM 536	
O-Rings	Buna-N	FKM ⁴
Spring Guide	Steel	
Spring	Plated Steel	
Spring Ranges		
BV0.75, BV1	Range 71-100 psi (4.90-6.89 bar). Factory Set at 95 psi (6.55 bar) differential pressure - unless otherwise specified.	20-40 psi (1.38-2.76 bar) ¹ (BV1 only) 41-70 psi (2.83-4.83 bar) ¹ 101-125 psi (6.96-8.62 bar) ¹ 126-165 psi (8.69-11.38 bar) ^{1,2} 166-200 psi (11.45-13.79 bar) ^{1,3}
BV1.25A, BV1.50A	Range 71-125 psi (4.90-8.62 bar). Factory Set at 125 psi (8.62 bar) differential pressure -unless otherwise specified)	20-40 psi (1.38-2.76 bar) ¹ 41-70 psi (2.83-4.83 bar) ¹ 126-165 psi (8.69-11.38 bar) ^{1,2} 166-200 psi (11.45-13.79 bar) ^{1,3}
BV2A	Range 91-125 psi (6.28-8.62 bar). Factory Set at 125 psi (8.62 bar) differential pressure - unless otherwise specified)	20-40 psi (1.38-2.76 bar) ¹ 41-70 psi (2.83-4.83 bar) ¹ 71-90 psi (4.90-6.21 bar) ¹ 126-150 psi (8.69-10.34 bar) ^{1,2}

¹ Optional Springs are set at the midpoint of the range by the factory unless otherwise specified.

² Use with pumps rated over 125 psi (8.62 bar) differential pressure.

³ Use with pumps rated over 165 psi (11.38 bar) differential pressure.

⁴ Not-U.L. Listed, all others are U.L. listed for LPG and NH₃ Service

PIPE CONNECTIONS

Model		
BV0.75	¾" NPT Tapped Ports	
BV1	1" NPT Tapped Ports	
BV1.25A	1 ¼" NPT Tapped Ports	
BV1.50A	1 ½" NPT Tapped Ports	
BV2A	2" NPT Flanges Ductile Iron: ASTM A536	NPT Flanges: 1.25", 1.5" Ductile Iron: ASTM A536 Weld Flanges: 2", 1.25", 1.5" Steel: ASTM A216 WCB Weld EI Flanges: 2" Steel: ASTM A216 WCB

OPERATING LIMITS

Maximum Differential Pressure	Maximum rating of the spring selected.
Maximum Working Pressure	350 psi (24.13 Bar) for all springs up to 125 psi maximum 375 psi (26.9 Bar) for springs rated for 150 psi maximum 390 psi (26.9 Bar) for springs rated for 165 psi maximum 425 psi (29.3 Bar) for springs rated for 200 psi maximum