

CIRCUIT BALANCING VALVES | ANSI FLANGED 125/250 STRAIGHT AND ANGLE | SIZES 2½" - 12" | SUBMITTAL

File No: 36.57
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Supersedes: 36.57
Date: JANUARY 25, 2018

Job: _____ Representative: _____
 _____ Ordered by: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

TAG	QTY	SIZE	ANSI FLANGE RATING	CONFIGURATION		PUMP DESCRIPTION
				STRAIGHT	ANGLED	
			125 / 250			
			125 / 250			
			125 / 250			
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			125 / 250			
			125 / 250			

MATERIALS OF CONSTRUCTION

Valve body: Cast Iron ASTM A48 Class 30B / Ductile Iron
ASTM A536 grade 65-42-12

Disc: Bronze (B584-844)

Seat: Ultra - High strength engineered resin

Stem: Brass - ASTM B - 16

Spring: Stainless steel ASTM A313 type 302

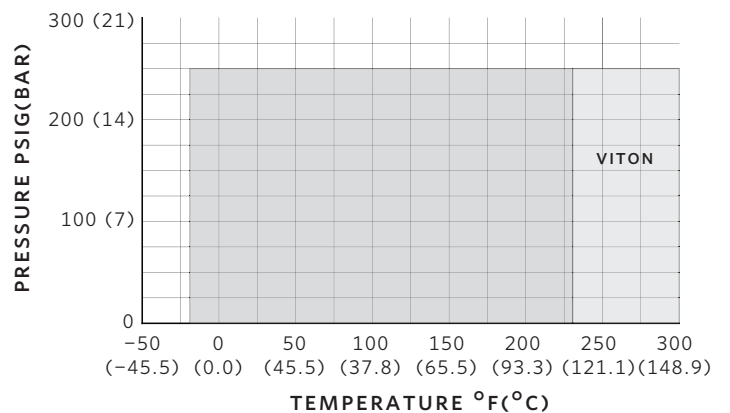
O rings: BUNA (STEM) and EPDM^① (body gasket)
ELASTOMERS

Meter ports (2): Brass body with EPDM check and
Gasket cap

Drain tappings (2): ¼" NPT with Brass plug

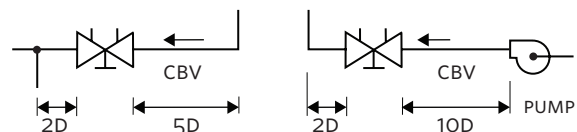
① EPDM not suitable for oil service.

OPERATING PARAMETERS PRESSURE/TEMPERATURE



INSTALLATION

Generally locate the valve five pipe diameters downstream from a fitting; with two diameters downstream from the balancing valve free from fittings. If a balancing valve is located downstream from a circulation pump, allow a distance of ten (10) diameters between the pump and balancing valves (as illustrated below). To save space, the valve may be used in the angled configuration as an elbow.



DIMENSIONS

125 PSI	DIMENSIONS inches (mm)							
CONNECTION SIZE	2½"	3"	4"	5"	6"	8"	10"	12"
A	7.38 (187)	8.19 (208)	9.63 (245)	12.00 (305)	14.13 (359)	19.00 (483)	20.33 (516)	24.07 (611)
B (FULLY OPEN)	9.62 (244)	10.50 (267)	10.56 (268)	13.06 (332)	13.75 (349)	24.62 (625)	26.50 (673)	28.43 (722)
C	2.75 (70)	2.44 (62)	3.00 (76)	3.63 (92)	4.44 (113)	5.69 (145)	6.56 (167)	7.63 (194)
D	4.63 (118)	3.88 (99)	4.38 (111)	5.50 (140)	6.63 (168)	9.19 (233)	9.78 (248)	14.05 (357)
E	1.00 (25)	1.00 (25)	1.25 (32)	1.25 (32)	2.00 (51)	2.25 (57)	2.25 (57)	2.25 (57)
F	2.56 (65)	3.00 (76)	3.44 (87)	4.94 (125)	5.88 (149)	7.88 (200)	9.47 (241)	12.63 (321)
G	7.00 (178)	7.50 (191)	9.00 (229)	10.00 (254)	11.00 (279)	13.50 (343)	16.00 (406)	19.00 (483)
S	12.00 (305)	12.00 (305)	14.00 (356)	17.50 (445)	20.69 (526)	28.00 (711)	30.01 (762)	38.09 (967)
WEIGHT lbs (kg)	33 (15)	39 (17.7)	59 (26.8)	108 (49)	167 (75.7)	344 (156)	603 (273)	1006 (456)

250 PSI	DIMENSIONS inches (mm)		
CONNECTION SIZE	8"	10"	12"
A	19.11(485)	20.33(516)	24.05(611)
B (FULLY OPEN)	24.62(625)	26.50(673)	28.43(722)
C	5.69(145)	6.56(167)	7.63(194)
D	9.69(246)	9.80(249)	14.03(356)
E	2.25(57)	2.25(57)	2.25(57)
F	7.88(200)	9.47(241)	12.63(321)
G	15.00(380)	17.50(445)	20.50(521)
S	28.20(716)	30.01(762)	38.05(966)
WEIGHT lbs (kg)	396(180)	712(323.6)	1163(456)

DESIGN DATA

CONNECTION SIZE	STEM: NO. OF 360° TURNS	MAX. WORKING TEMP
2.5	5	Standard material 230°F (110°C)
3	5	
4	6	
5	9	
6	10	
8	12	
10	18	
12	28	

TORONTO
+1 416 755 2291

BUFFALO
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MANCHESTER
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BANGALORE
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SHANGHAI
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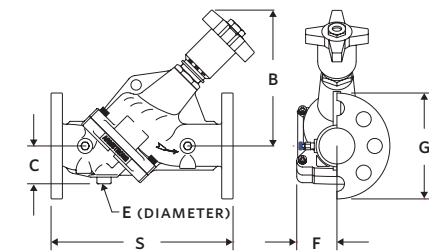
SÃO PAULO
+55 11 4785 1330

LYON
+33 (0) 420 102 625

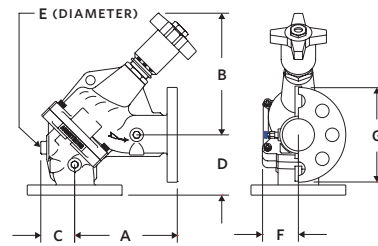
DUBAI
+971 4 887 6775

MANNHEIM
+49 (0) 621 3999 9858

Dimensional Tolerance up to ±0.125" (3mm)



STRAIGHT DESIGN CBV - FS



ANGLE DESIGN CBV - FA