

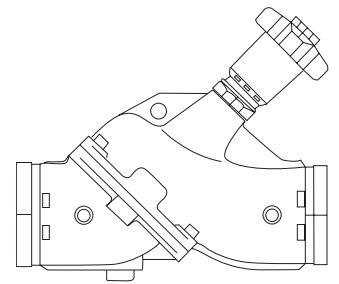
CIRCUIT BALANCING VALVES | GROOVED, STRAIGHT AND ANGLED | SIZES 2½" - 6" | SUBMITTAL

File no: 36.52
Date: JUNE 22, 2023
Supersedes: 36.52
Date: NOVEMBER 27, 2019

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

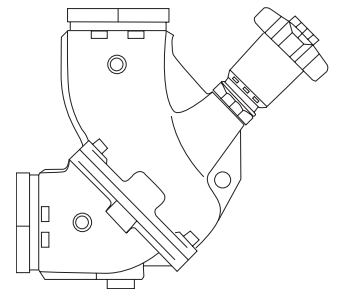
STRAIGHT DESIGN CBV-GS

VALVE SIZE	QUANTITY REQUIRED	IDENTIFICATION	GROOVED	FITTINGS REQUIRED			
				125 LB FLANGE		250 LB FLANGE	
				ONE	TWO	ONE	TWO
CBV - GS							
CBV - GS							
CBV - GS							
CBV - GS							
CBV - GS							
CBV - GS							



ANGLE DESIGN CBV-GA

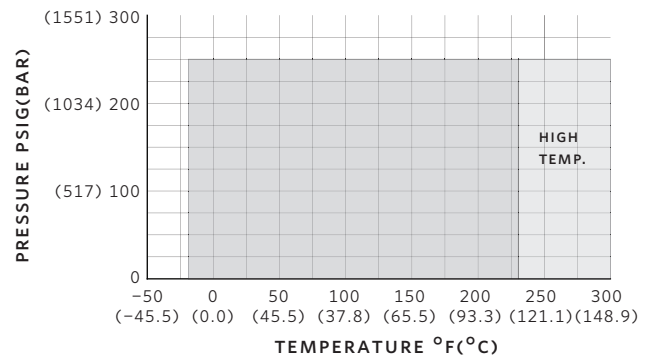
VALVE SIZE	QUANTITY REQUIRED	IDENTIFICATION	GROOVED	FITTINGS REQUIRED			
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MATERIALS OF CONSTRUCTION

- Body:** Ductile iron ASTM A536 GR 65-45-12
- Disc:** Bronze ASTM B584 C-84400
- Seat:** High strength engineered resin
- Stem:** Brass - ASTM B-16
- Memory lock:** Brass - ASTM B-16
- O rings:** BUNA N. & EPDM (EPDM only on high temp.)
- Meter ports:** NPT brass body with EPDM check
- Drain tappings:** ¼" quantity 2 with Brass Plug
- Flange adapters:** Ductile iron - ASTM A 536
- Flange gaskets:** EPDM

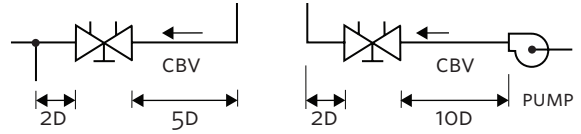
OPERATING PARAMETERS - PRESSURE/TEMPERATURE



NOTE: For temperatures from 230°F to 300°F (110°C to 150°C) use EPDM.

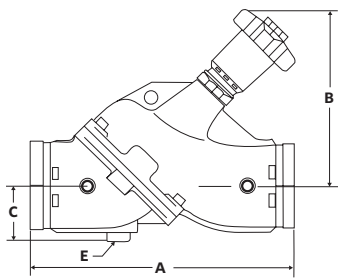
INSTALLATION

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 pipe and balancing valves (as illustrated below).

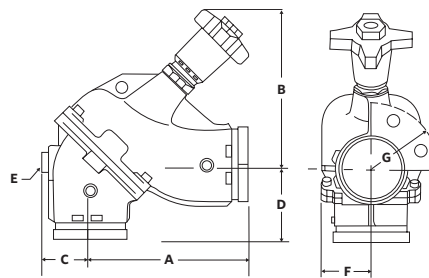


DIMENSIONS

MODEL	CBV - GS STRAIGHT inches (mm)					CBV - GA ANGLE inches (mm)				
	2½	3	4	5	6	2½	3	4	5	6
CONNECTION SIZE	2½	3	4	5	6	2½	3	4	5	6
A	12.00 (305)	12.00 (305)	14.00 (356)	17.50 (445)	20.69 (525)	7.11 (187)	8.19 (208)	9.62 (244)	12.00 (305)	14.12 (359)
B OPEN	9.62 (244)	10.50 (267)	10.56 (268)	12.75 (324)	13.06 (332)	9.62 (244)	10.50 (267)	10.56 (268)	12.75 (324)	13.62 (332)
C	2.75 (70)	2.44 (62)	3.00 (76)	3.62 (92)	4.44 (113)	2.75 (70)	2.44 (62)	3.00 (76)	3.62 (92)	4.44 (113)
D	—	—	—	—	—	4.62 (117)	3.88 (98)	4.37 (111)	5.50 (140)	6.62 (168)
E	1.00 (25)	1.00 (25)	1.25 (32)	1.25 (32)	2.00 (51)	1.00 (25)	1.00 (25)	1.25 (32)	1.25 (32)	2.00 (51)
F	2.56 (65)	3.00 (76)	3.44 (87)	4.94 (125)	5.86 (149)	2.56 (65)	3.00 (76)	3.44 (87)	4.94 (125)	5.87 (149)
G (FLANGE O. D. 125#)	7.00 (178)	7.50 (191)	9.25 (235)	10.00 (254)	11.00 (279)	7.00 (178)	7.50 (191)	9.25 (235)	10.00 (254)	11.00 (279)
G (FLANGE O. D. 250#)	7.50 (191)	8.25 (210)	10.00 (254)	11.00 (279)	12.50 (318)	7.50 (191)	8.25 (210)	10.00 (254)	11.00 (279)	12.50 (318)
WEIGHT LBS (KG)	19 (9)	24 (11)	42 (19)	81 (37)	120 (54)	19 (9)	24 (11)	42 (19)	81 (37)	120 (54)



STRAIGHT DESIGN CBV - GS



ANGLE DESIGN CBV - GA

TORONTO

23 BERTRAND AVENUE,
TORONTO, ONTARIO,
CANADA, M1L 2P3
+1 416 755 2291

BUFFALO

93 EAST AVENUE, NORTH
TONAWANDA, NEW YORK,
U.S.A., 14120-6594
+1 716 693 8813

DROITWICH SPA

POINTON WAY, STONEBRIDGE CROSS
BUSINESS PARK, DROITWICH SPA,
WORCESTERSHIRE,
UNITED KINGDOM, WR9 0LW
+44 121 550 5333

MANCHESTER

WOLVERTON STREET, MANCHESTER
UNITED KINGDOM, M11 2ET
+44 161 223 2223

BANGALORE

#18, LEWIS WORKSPACE, 3RD FLOOR,
OFF MILLERS - NANDIDURGA ROAD,
JAYAMAHAL CBD, BENSON TOWN,
BANGALORE, INDIA 560 046
+91 80 4906 3555

SHANGHAI

UNIT 903, 888 NORTH SICHUAN RD.
HONGKOU DISTRICT, SHANGHAI
CHINA, 200085
+86 21 5237 0909

BEIJING

ROOM 1612, NANYIN BUILDING NO.2
NORTH EAST THRID RING ROAD
CHAOYANG DISTRICT, BEIJING,
CHINA 100027
+86 21 5237 0909

SÃO PAULO

RUA JOSÉ SEMIÃO RODRIGUES
AGOSTINHO, 1370 GALPÃO 6 EMBU
DAS ARTES, SAO PAULO, BRAZIL
+55 11 4785 1330

LYON

93 RUE DE LA VILLETTE
LYON, 69003 FRANCE
+33 4 26 83 78 74

DUBAI

JAFZA VIEW 19, OFFICE 402
P.O. BOX 18226 JAFZA,
DUBAI - UNITED ARAB EMIRATES
+971 4 887 6775

JIMBOLIA

STR CALEA MOTILOR NR. 2C
JIMBOLIA 305400, JUD.TIMIS
ROMANIA
+40 256 360 030

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