

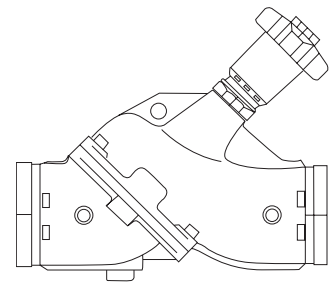
CIRCUIT BALANCING VALVES | GROOVED, STRAIGHT AND ANGLED | SIZES 8" - 12" | SUBMITTAL

File no: 36.53
Date: DECEMBER 19, 2019
Supersedes: 36.53
Date: DECEMBER 21, 1992

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

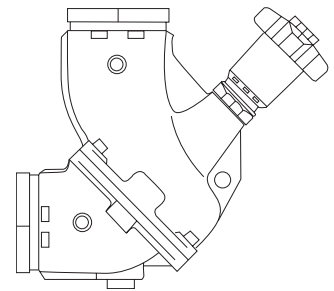
STRAIGHT DESIGN CBV-GS

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

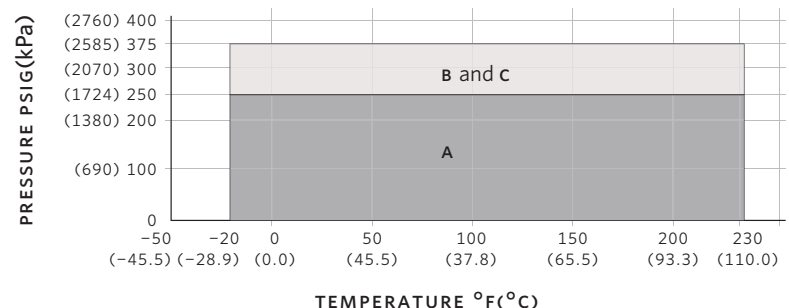
VALVE SIZE	QUANTITY REQUIRED	IDENTIFICATION	GROOVED	FITTINGS REQUIRED			
				125 LB FLANGE		250 LB FLANGE	
				ONE	TWO	ONE	TWO
CBV - GA							
CBV - GA							
CBV - GA							
CBV - GA							
CBV - GA							
CBV - GA							



MATERIALS OF CONSTRUCTION

- Body:** Ductile iron ASTM A536 GR 65-45-12
- Disc:** Bronze ASTM B584 C-84400
- Seat:** EPDM
- Stem:** Stainless steel
- Memory lock:** Brass - ASTM B-16
- O rings:** BUNA N.
- Meter ports:** NPT brass body with EPT check
- Drain tappings:** 1/4" quantity 2 with Brass Plug
- Flange adapters:** Ductile iron
- Flange gaskets:** EPDM
- Insulation:** Fiberglass

OPERATING PARAMETERS - PRESSURE/TEMPERATURE



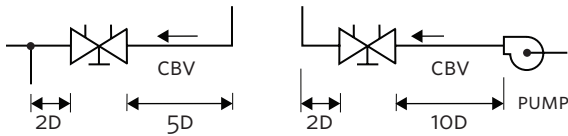
- **A:** Armgrip™ ductile iron flange adapter for ANSI 150# flanges
 - **B:** Armgrip™ ductile iron flange adapter for ANSI 300# flanges
 - **C:** Grooved end with 275 psi rated pipe coupling
- NOTE:** For temperatures from 230°F to 300°F (110°C to 150°C) use EPDM.

SUBMITTAL

2

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).



OPTIONAL FEATURES

If checked, CBV valve pre-formed insulation to be provided to meet code requirement of flame spread rating of 25 or less and a smoke development rating of 50 or less according to ASTM E-84.

Viton elastomer for temperature above 230°F

DIMENSIONS

MODEL	CBV - GS STRAIGHT inches (mm)			CBV - GA ANGLE inches (mm)		
	8	10	12	8	10	12
CONNECTION SIZE						
A	28.19 (716)	30.00 (762)	38.10 (967)	18.93 (481)	20.30 (516)	24.10 (611)
B OPEN	24.62 (625)	26.50 (673)	28.40 (722)	24.62 (625)	26.50 (673)	28.40 (722)
C	5.69 (144)	6.60 (167)	7.60 (194)	5.69 (144)	6.60 (167)	7.60 (194)
D	—	—	—	9.19 (233)	9.80 (248)	14.00 (356)
E	2.00 (51)	2.00 (51)	2.00 (51)	2.00 (51)	2.00 (51)	2.00 (51)
F	7.88 (200)	9.47 (241)	12.63 (321)	7.88 (200)	9.47 (241)	12.63 (321)
G (FLANGE O. D. 125#)	13.50 (343)	16.00 (406)	19.00 (486)	13.50 (343)	16.00 (406)	19.00 (486)
G (FLANGE O. D. 250#)	15.00 (381)	17.50 (445)	20.50 (521)	15.00 (381)	17.50 (445)	20.50 (521)
WEIGHT LBS (KG)	310 (141)	460 (209)	870 (395)	310 (141)	460 (209)	870 (395)

TORONTO
 +1 416 755 2291

BUFFALO
 +1 716 693 8813

BIRMINGHAM
 +44 (0) 8444 145 145

MANCHESTER
 +44 (0) 8444 145 145

BANGALORE
 +91 (0) 80 4906 3555

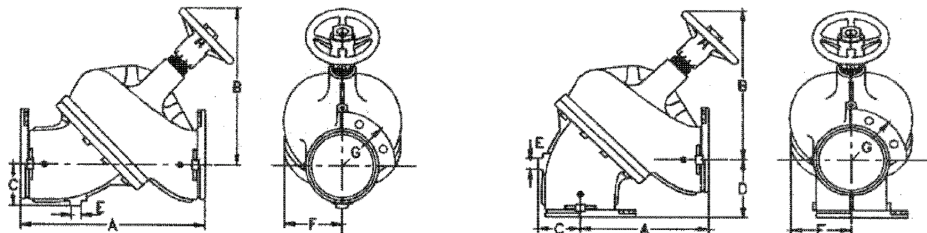
SHANGHAI
 +86 (0) 21 5237 0909

SÃO PAULO
 +55 11 4785 1330

LYON
 +33 (0) 420 102 625

DUBAI
 +971 4 887 6775

MANNHEIM
 +49 (0) 621 3999 9858



STRAIGHT DESIGN CBV - GS

ANGLE DESIGN CBV - GA