

CIRCUIT BALANCING VALVES

File No.: 36.53
 Date: Dec. 21, 1992
 Supersedes: New

STRAIGHT and ANGLE

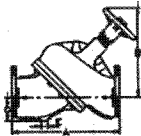
Sizes 8" - 12"

ARMSTRONG

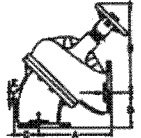
SUBMITTAL

JOB _____	REPRESENTATIVE _____
REFERENCE NO. _____	ORDER NO. _____
ENGINEER _____	SUBMITTED BY _____
CONTRACTOR _____	APPROVED BY _____
	DATE _____
	DATE _____
	DATE _____

STRAIGHT DESIGN
CBV-G



ANGLE DESIGN
CBV-A



STRAIGHT DESIGN

VALVE SIZE	QUANTITY REQUIRED	IDENTIFICATION	GROOVED	FITTINGS REQUIRED			
				125 lb. FLANGE		250 lb. FLANGE	
				ONE	TWO	ONE	TWO
CBV- G							
CBV- G							
CBV- G							
CBV- G							
CBV- G							
CBV- G							

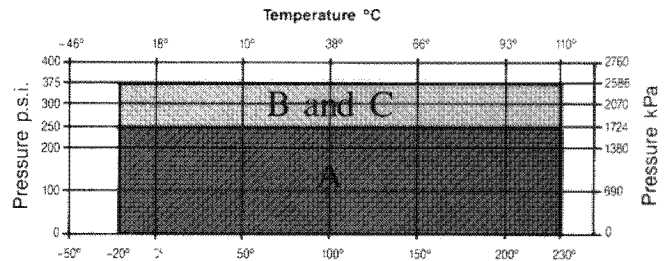
ANGLE DESIGN

VALVE SIZE	QUANTITY REQUIRED	IDENTIFICATION	GROOVED	FITTINGS REQUIRED			
				125 lb. FLANGE		250 lb. FLANGE	
				ONE	TWO	ONE	TWO
CBV- A							
CBV- A							
CBV- A							
CBV- A							
CBV- A							
CBV- A							

MATERIALS OF CONSTRUCTION

ITEM	MATERIAL
BODY	Ductile Iron - ASTM A536 GR65 - 45-12
DISC	Bronze - ASTM B584 C-84400
SEAT	EPDM
STEM	Stainless Steel
MEMORY LOCK	Brass - ASTM B-16
"O" RING	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

PRESSURE/TEMPERATURE LIMITS



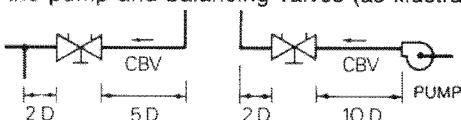
Note: for temperatures between 230°F and 300°F (110°C and 149°C) specify Viton Elastomers.

LEGEND

A	Armgrid™ ductile iron flange adapters for ANSI 150# flanges
B	Armgrid™ ductile iron flange adapters for ANSI 300# flanges
C	Grooved end with 375 p.s.i. rated pipe coupling

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).



CIRCUIT BALANCING VALVES

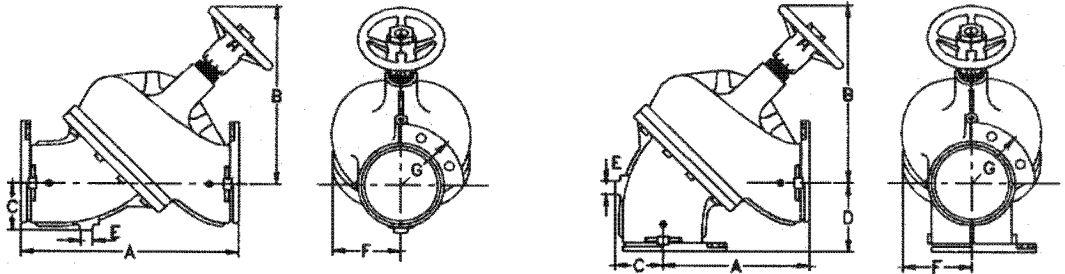
STRAIGHT and ANGLE

Sizes 8" - 12"

ARMSTRONG

SUBMITTAL

DIMENSIONS



**STRAIGHT DESIGN
CBV-G**

**ANGLE DESIGN
CBV-A**

MODEL	CBV-G STRAIGHT			CBV-A ANGLE		
CONNECTION SIZE	8	10	12	8	10	12
A	28-3/16 (716 mm)	30 (762 mm)	38-1/16 (967 mm)	18-15/16 (481 mm)	20-5/16 (516 mm)	24-1/16 (611 mm)
B OPEN	24-5/8 (625 mm)	26-1/2 (673 mm)	28-7/16 (722 mm)	24-5/8 (625 mm)	26-1/2 (673 mm)	28-7/16 (722 mm)
C	5-11/16 (144 mm)	6-9/16 (167 mm)	7-5/8 (194 mm)	5-11/16 (144 mm)	6-9/16 (167 mm)	7-5/8 (194 mm)
D	-	-	-	9-3/16 (233 mm)	9-3/4 (248 mm)	14 (356 mm)
E	2-1/4 (57 mm)	2-1/4 (57 mm)	2-1/4 (57 mm)	2-1/4 (57 mm)	2-1/4 (57 mm)	2-1/4 (57 mm)
F	7-7/8 (200 mm)	9-15/32 (241 mm)	12-5/8 (321 mm)	7-7/8 (200 mm)	9-15/32 (241 mm)	12-5/8 (321 mm)
G FLANGE 125"	13-1/2 (343 mm)	16 (406 mm)	19 (483 mm)	13-1/2 (343 mm)	16 (406 mm)	19 (483 mm)
G FLANGE 250"	15 (381 mm)	17-1/2 (445 mm)	20-1/2 (521 mm)	15 (381 mm)	17-1/2 (445 mm)	20-1/2 (521 mm)
WEIGHT	310 (141 kg)	460 (209 kg)	870 (395 kg)	310 (141 kg)	460 (209 kg)	870 (395 kg)

OPTIONAL FEATURES

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

Viton Elastomers for temperatures above 230°F

S.A. Armstrong Limited
23 Bertrand Avenue
Toronto, Ontario
Canada, M1L 2P3
Tel: (416) 755-2291
Fax: (416) 759-9101

Armstrong Pumps Limited
Peartree Road, Stanway
Colchester, Essex
United Kingdom, C03 5JX
Tel: 01206-579491
Fax: 01206-760532



Armstrong Pumps Inc.
93 East Avenue
Buffalo, New York
U.S.A. 14120-6594
Tel: (716) 693-8813
Fax: (716) 693-8970

Armstrong Darling Inc.
2200 Place Transcanadienne
Montreal, Quebec
Canada, H9P 2X5
Tel: (514) 421-2424
Fax: (514) 421-2436

