

JOB:
REPRESENTATIVE:

UNIT TAG:

ORDER NUMBER:

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



Circuit Setter® **Calibrated Balance Valves** **with Grooved Connections**

DESCRIPTION

The Bell & Gossett Circuit Setter calibrated balance valve is a precision machined triple purpose balancing instrument. It is precisely calibrated for use as a presettable balance valve, variable orifice flow meter and positive shut-off service valve.

Valves are furnished with a calibrated nameplate and memory stop indicator which permits the value to be preset to a fixed open position and then closed for service without disturbing valve setting.

Valves are equipped with capped readout valves fitted with internal check valves.

MAXIMUM OPERATING TEMPERATURE

250°F (121°C)

MAXIMUM WORKING PRESSURE

300 PSIG (2068 kPa)

Sizes 4"-12"

Body & Bonnet - Grooved: Ductile Iron

Disc: 4" - 8" Brass with EPDM Insert

10" - 12" Stainless Steel with EPDM Insert

Stern: Stainless Steel

Packing: Teflon-Graphite (Asbestos-Free)

Gasket: Synthetic Fiber - Nitrile Binder (Asbestos-Free)

Seal Ring: EPDM

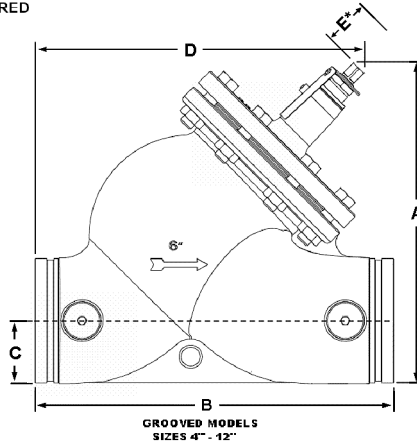
Bushing: Nickel Plated Steel

SCHEDULE

MODEL NO.	PART NO.	TAGGING INFORMATION	QUANTITY
CB-4G	117476		
CB-5G	116477		
CB-6G	117478		
CB-8G	117479		
CB-10G	117641		
CB-12G	117642		

CIRCUIT SETTER CALIBRATED BALANCE VALVES

*DISTANCE REQUIRED
TO DISASSEMBLE
(VALVE CLOSED)



DIMENSIONS AND WEIGHTS*

DIMENSIONS IN INCHES (MM)

MODEL NO.	PIPE SIZE	CONNS.	A		B	C	D		E	MAX. WIDTH OF VALVE	WEIGHT IN LBS. (Kg)
			OPEN	CLOSED			OPEN	CLOSED			
CB-4G	4 (101.6)	GRVD.	14-5/8 (371.5)	13-5/8 (346.1)	15-1/8 (384.2)	2-1/4 (57.2)	15-11/16 (424.0)	13-15/16 (354.0)	6-1/4 (158.8)	9 (254.0)	70 (32)
CB-5G	5 (127)	GRVD.	16-9/32 (413.5)	15-1/32 (407.2)	17-1/8 (435.0)	2-25/32 (70.6)	17-11/32 (440.5)	15-9/16 (395.3)	6-7/8 (174.6)	10 (254.0)	86 (39)
CB-6G	6 (152.4)	GRVD.	18-9/16 (471.5)	17-1/16 (433.4)	19 (482.6)	3-5/16 (84.1)	19-1/2 (495.3)	17-13/32 (442.1)	8-1/4 (209.6)	11 (279.4)	160 (73)
CB-8G	8 (203.2)	GRVD.	22-5/16 (566.7)	20-13/16 (528.6)	22-1/2 (571.5)	3-5/16 (84.1)	22-3/8 (568.3)	20-5/16 (516.0)	10-3/8 (263.5)	14-1/4 (362.0)	270 (123)
CB-10G	10 (254)	GRVD.	26-1/4 (666.8)	23-7/8 (606.4)	26-1/2 (673.1)	5-3/8 (136.5)	26-1/32 (661.2)	23-3/16 (589.0)	12-1/4 (311.2)	17 (431.8)	384 (174)
CB-12G	12 (304.8)	GRVD.	30-3/8 (771.5)	28 (711.2)	31 (787.4)	6-3/8 (161.9)	30-7/16 (773.1)	26-15/16 (684.2)	14-1/2 (368.3)	20 (508.0)	546 (248)

All dimensions are +/- 0.125" (3.2 mm) tolerance. Dimensions are subjected to change. Not to be used for construction purposes unless certified.

IMPORTANT

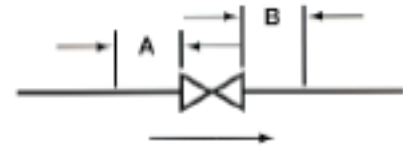
When monitoring system flow, care must be exercised to avoid direct skin or eye contact with liquids that may escape. Liquids with temperatures in excess of 120°F (49°C) may cause burns.

Bell & Gossett Circuit Setter Balance Valves are not recommended for use with meter connections pointing downward.

To retain calibrated accuracy, a minimum length of unrestricted straight pipe adjacent to the valve should be maintained as follows:

SIZE INCHES (mm)	UPSTREAM "A" (In Pipe Diameters)	DOWNSTREAM "B" (In Pipe Diameters)
4"-12" (101.6-304.8)	5	2

Best use results maximize straight pipe length entering and leaving valve. Obstructions or changes in planar flow profiles entering valve may affect accuracy if too close to valve.



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