

Flanged Globe Valves

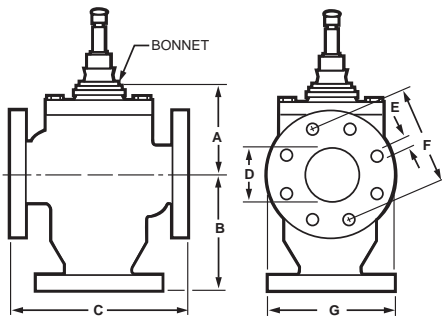
V5013B,C Three-Way Flanged Globe Valves



The V5013B are three-way mixing valves. The V5013C are three-way diverting valves. These valves provide proportional or two-position control of hot or chilled water in closed loop heating or cooling systems. These valves are offered in sizes 2 1/2 in. through 6 in.

- Not suitable for combustible gases
- Valves utilize direct mounting valve actuators, Q5020/Q5022 linkages with Direct Coupled Actuators, or Pneumatic Valve Actuators to operate the valve
- Constant total flow through full plug travel
- Stainless steel stem prevents corrosion
- Class IV (0.01% of Cv) Leakage Rating

Dimensions in inches (millimeters)



V5013B,C DIMENSIONS

VALVE SIZE IN INCHES (MM)					
	2-1/2 (DN65)	3 (DN80)	4 (DN100)	5 (DN125)	6 (DN150)
A	4-1/2 (114)	5-1/4 (133)	5-7/8 (149)	6-1/4 (159)	7-1/4 (184)
B	6-7/17 (164)	6-5/8 (168)	8-11/16 (221)	9-5/8 (244)	10-11/16 (271)
C	9-1/2 (241)	11 (279)	13 (330)	15 (381)	16-1/2 (419)
D	2-1/2 (64)	3 (76)	4 (102)	5 (127)	6 (152)
E	3/4 (19)	3/4 (19)	3/4 (19)	7/8 (22)	7/8 (22)
F	5-1/2 (140)	6 (152)	7-1/2 (191)	8-1/2 (216)	9-1/2 (241)
G	7 (178)	7-1/2 (191)	9 (229)	10 (254)	11 (279)

M16833

Valve Type: Globe Valve

Body Pattern: Three-way

Flow Characteristics: Linear (constant total)

Connection Type: Flanged

Controlled Medium: Chilled or hot water with up to 50% Glycol; not for use with steam or fuels.

Maximum Safe Operating Pressure: 150 psi at 240 F water (1034 kPa at 115 C water)

Maximum Differential for Quiet Water Service: 20 psid (138 kPa)

Ambient Temperature Range: 40 F to 250 F (4 C to 121 C)

Bonnet Size: 1 3/8 in. (35 mm)

ANSI/ASME Rating: 125

Actuation: Must be purchased separately

Materials

(Body): Cast Iron

(Stem): Stainless Steel

(Seat): Bronze

(Packing): Teflon Cone

Product Number	Valve Size		Flow Capacity		Valve Action	Stem Travel		Comments	Used With
	(inch)	DN	(Cv)	(Kv)		(inch)	(mm)		
V5013B1003/U	2 1/2 in.	DN65	63 Cv	54 kvs	Stem up increases B to AB flow	3/4 in.	20 mm	Mixing	ML6984/ML7984; Q5001/Modutrol IV Motor; ML7420/ML7421A/ML7425; ML6420,21A,25
V5013B1011/U	3 in.	DN80	100 Cv	85 kvs	Stem up increases B to AB flow	3/4 in.	20 mm	Mixing	ML6984/ML7984; Q5001/Modutrol IV Motor; ML6420,21A,25; ML7420/ML7421A/ML7425
V5013B1029/U	4 in.	DN100	160 Cv	137 kvs	Stem up increases B to AB flow	1 1/2 in.	38 mm	Mixing	ML7421B; ML6421B; Q5001/Modutrol IV Motor
V5013B1037/U	5 in.	DN125	250 Cv	214 kvs	Stem up increases B to AB flow	1 1/2 in.	38 mm	Mixing	ML6421B; ML7421B; Q5001/Modutrol IV Motor
V5013B1045/U	6 in.	DN150	360 Cv	308 kvs	Stem up increases B to AB flow	1 1/2 in.	38 mm	Mixing	ML7421B; ML6421B; Q5001/Modutrol IV Motor
V5013C1001/U	2 1/2 in.	DN65	63 Cv	54 kvs	Stem up increases AB to A flow	3/4 in.	20 mm	Diverting	ML6984/ML7984; Q5001/Modutrol IV Motor; ML7420/ML7421A/ML7425; ML6420,21A,25
V5013C1019/U	3 in.	DN80	100 Cv	85 kvs	Stem up increases AB to A flow	3/4 in.	20 mm	Diverting	ML6984/ML7984; Q5001/Modutrol IV Motor; ML6420,21A,25; ML7420/ML7421A/ML7425
V5013C1027/U	4 in.	DN100	160 Cv	137 kvs	Stem up increases AB to A flow	1 1/2 in.	38 mm	Diverting	ML6421B; ML7421B; Q5001/Modutrol IV Motor
V5013C1035/U	5 in.	DN125	250 Cv	214 kvs	Stem up increases AB to A flow	1 1/2 in.	38 mm	Diverting	ML7421B; ML6421B; Q5001/Modutrol IV Motor
V5013C1043/U	6 in.	DN150	360 Cv	308 kvs	Stem up increases AB to A flow	1 1/2 in.	38 mm	Diverting	ML6421B; ML7421B; Q5001/Modutrol IV Motor