

MBLVS

2-Way / 3-Way Control Valves (DN15-50)



Features

- MAPLE present the MBLVS Characterised Disc Ball valve. These valve are mainly use in the HVAC system to regulate the flow of water and steam in response to the demand of a controller.
- Complete range from DN 15 to DN 50
- 2 Way, 3 Way Mixing / Diverting
- Forged brass body
- Low leakage factor of up to 0.01% of Kvs
- High close-off pressure actuator satisfies demanding requirements of high-rise buildings and high-pressure pumping systems
- PN 20 or 290 PSI system operating pressure
- Actuator can be factory or field installed
- Equal Percentage Flow Characteristic

Model Selection

Valve Body Pressure Rating	290 psig (PN20 or 2,000 kPa) Meets Requirements of ANSI B16.15, Class 250		
Fluid / Ambient Temperature Limits	-5 to 121 °C water at an Ambient Temperature of 40 °C		
Shipping & Storage Temperature Limits	-40 to 70 °C (-40 to 158 °F)		
Body Sizes	See Table 1: Valve Code Number Selection Guide		
Service	Chilled, Hot Water, up to 50% Glycol Solutions and 15% (103 kPa) Saturated steam		
Seat Leakage	0.01% of KVs		
Pipe Connection	BSP or NPT		
Body Materials	Brass Trim	Body Stem Seat Seal	Forged Brass Brass PFTE EPDM Double O-Ring
Flow Characteristics	2 Way	Equal Percentage	
	3 Way	Equal Percentage of Inline Port A (Coil) and Linear for port B Bypass	
Maximum Close off Pressure	See Tables 2		

KVs

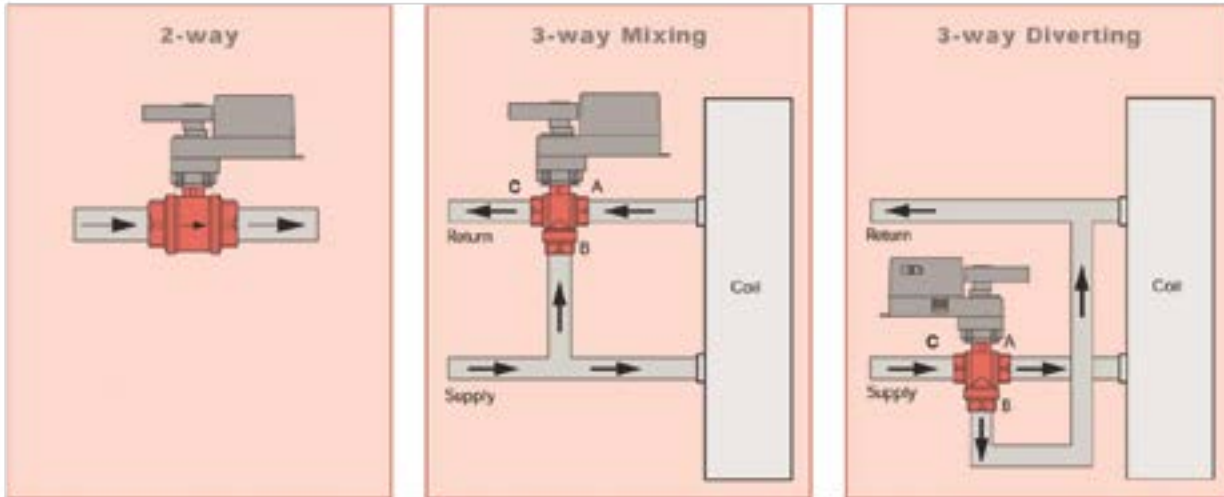
KVS \ DN	15		20		25		32		40		50	
	2 way	3 way	2 way	3 way	2 way	3 way	2 way	3 way	2 way	3 way	2 way	3 way
C	1.6	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D	2.5	2.5	4.0	2.5	3.6	4.0	10.0	6.3	16.0	10.0	25.0	16.0
E	4.0	4.0	6.3	4.0	10.0	6.3	16.0	10.0	25.0	16.0	40.0	25.0
F	10.1	5.0	10.1	5.0	16.0	8.0	25.0	12.5	40.0	20.0	63.0	31.5

Maximum Close-off Pressure KPA (PSI) with Actuator

Maximum Shutoff Pressure KPA (PSI)							
Model	Torque (Nm)	DN15	DN20	DN25	DN32	DN40	DN50
NAB..... - 05	5	1000 (145)	1000 (145)	1000 (145)	1000 (145)	590 (100)	400(58)
NAB.... - 10	10	1400 (203)	1400 (203)	1400 (203)	1400 (203)	1000 (145)	1000 (145)

Table 2

Piping Diagram



Remarks:

3 Way Valve assemblies are shipped as standard with ball ports labeled as A, B, C accordingly. All 3 Way ball valve are shipped 0° counterclockwise. For application requiring a different flow pattern, please consult your NENUTEC representative

Mixing Application:

Fluid enters through two inlet (A and B) and exits through one outlet (C)

Diverting Application:

Fluid enters through one inlet (C) and exits through two outlet(A and C)

Dimensions of Valve Body unit : mm

Dimensions	DN (mm)	A	B	H	L	S
2 and 3 Way	15	105	65	158	75	32
	20	105	65	158	75	32
	25	105	65	160	168	39
	32	140	85	190	175	49
	40	140	85	200	175	55
	50	140	85	210	185	87

Table 3

