

MMV/MMR

2- and 3-way control valves

MMV and MMR is a range of 2- and 3-way control valves. They are used to control hot, cold or glycol-mixed water or steam in heating and ventilation systems.

- Kv-value 0.63...39
- Size DN15 up to DN50
- Temperature area -5...+185°C

The valve range MMV/MMR is used with NVY... actuators. The valve is intended for cold and hot water, glycol-mixed water or steam. The 3-way valve is intended to be used as a mixing valve.

Function

MMV (2-way valve):

Open when the stem is in its lowest position.
Closed when the stem is in its top position.

MMR (3-way valve):

Open between port 2 and port 1 when the stem is in its lowest position. (Is in this position closed between ports 3 and 1).

Open between port 3 and port 1 when the stem is in its top position. (Is in this position closed between ports 2 and 1).

See drawing on overleaf.

Can be rebuilt

The valve can easily be rebuilt from 2-way to 3-way (and from 3-way to 2-way) without dismantling.

Actuators

The valves are intended to be used with NVY... actuators (3-point or 0...10 V). See product sheet 7-445 (NVY) for detailed information on suitable actuators.

MMV/MMR can also be adjusted for use with other actuator brands (contact Regin for more information).

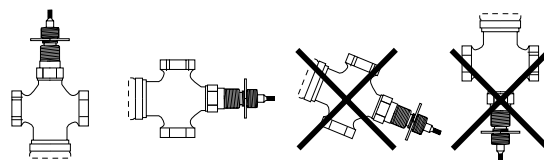
- Pressure class PN16
- Differential pressure 0.25...1.6 MPa (MMV) and 0.5...1.6 MPa (MMR)
- Can be rebuilt without dismantling

Installation

The valve should be mounted according to the flow directions on the valve.

The 2-way valve should be mounted with port 2 on the intake and port 1 on the return (flow direction 2 in 1 out) to make sure that the plug closes tightly and to prevent noise when closing.

The 3-way valve is of mixing type and should be mounted in the mixing point.



Material

The valves have body and plug in gunmetal LG2 and stem in stainless steel. O-ring in Viton in the packing box.

Control of refrigerants

The valves can be used with different refrigerants. In this case, a special type of packing box should be mounted. Contact Regin for more information.

Models

2-way valves				3-way valves		Kv	Max diff. pressure
MMV15-0,63	DN15	0.63	1.6 MPa	MMR15-0,63	DN15	0.63	1.6 MPa
MMV15-1,0	DN15	1.0	1.6 MPa	MMR15-1,0	DN15	1.0	1.6 MPa
MMV15-1,6	DN15	1.6	1.6 MPa	MMR15-1,6	DN15	1.6	1.6 MPa
MMV15-2,1	DN15	2.1	1.6 MPa	MMR15-2,1	DN15	2.1	1.6 MPa
MMV15-2,7	DN15	2.7	1.6 MPa	MMR15-2,7	DN15	2.7	1.6 MPa
MMV20-4,2	DN20	4.2	1.6 MPa	MMR20-4,2	DN20	4.2	1.6 MPa
MMV20-5,6	DN20	5.6	1.6 MPa	MMR20-5,6	DN20	5.6	1.6 MPa
MMV25-10	DN25	10	1.0 MPa	MMR25-10	DN25	10	1.0 MPa
MMV32-16	DN32	16	0.6 MPa	MMR32-16	DN32	16	1.0 MPa
MMV40-27	DN40	27	0.4 MPa	MMR40-27	DN40	27	0.8 MPa
MMV50-39	DN50	39	0.25 MPa	MMR50-39	DN50	39	0.5 MPa

Technical data

Pressure class	PN16
Connection	Metric female threaded
Flow characteristics	Square
Rangeability	50:1
Stroke	15 mm
Media	Hot, cold or glycol-mixed water (max 50%) or steam
Max leakage	0.1 % of kv
Temperature area	-5...+185°C
Thread	The valves have female threaded connections according to ISO 228/1

Material

Body	Rg5 (gun metal SS 5204)
Plug	Rg5 (gun metal SS 5204)
Stem	Stainless steel
Packing box	Self-adjusting Teflon (O-ring Viton)

Dimensions and pressure drop diagram

Measurements in mm.

MMR/MMV	15-0,63	15-1,0	15-1,6	15-2,1	15-2,7	20-4,2	20-5,6	25-10	32-16	40-27	50-39
A	70	70	70	70	70	80	80	90	115	130	160
G	G1/2"	G1/2"	G1/2"	G1/2"	G1/2"	G3/4"	G3/4"	G1"	G1 1/4"	G1 1/2"	G2"
B1	56	56	56	56	56	56	56	56	60	64	70
B2	70	70	70	70	70	70	70	70	80	80	95
E	106	106	106	106	106	106	106	112	115	123	128

