



- Size DN20 or DN25
- Kv value 0.6...4.0
- Energy-saving valve 0 % leakage

Application

The MRT valves are designed for use in heating and ventilation systems with cold and hot water within the temperature range -5...+140°C.

Actuators

The valves are intended to be used together with Regin's RVA5 actuators.

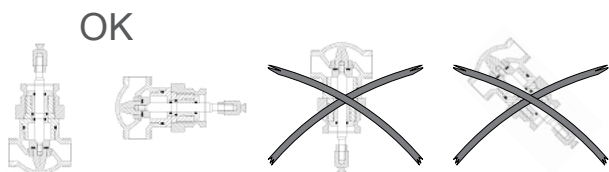
We also offer adapters for actuators of other brands.

Function

The valve is open when the spindle is in its highest position, closed when the spindle is in its lowest position.

Installation

MRT should be mounted according to the flow direction arrow on the valve. It should be installed with the spindle upwards or at an angle of max. 90° to the vertical. See below.



MRT

2-way control valve

Valves with external thread for heating and ventilation systems, for cold and hot water, cooling systems and steam.

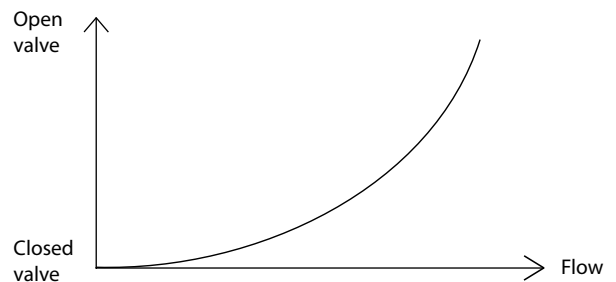
- Pressure class PN16
- Differential pressure 1.6 MPa
- Media temperature -5...140°C

Material

The valves consist of body in gunmetal, bonnet and packing box in brass and spindle, seat and plug in stainless steel. The packing box has O-rings made of Viton. The seal used for the stainless steel seat is a carbon-filled PTFE gasket. This packing type makes the valve fully sealed in the closed position.

Flow characteristics

The flow type is equal percentage according to the figure below.



Models

Valve	Connection	Kv
MRT20-0,6	DN20	0.6
MRT20-1,0	DN20	1.0
MRT20-1,6	DN20	1.6
MRT20-2,5	DN20	2.5
MRT20-4,0	DN20	4.0
MRT25-0,6	DN25	0.6
MRT25-1,0	DN25	1.0
MRT25-1,6	DN25	1.6
MRT25-2,5	DN25	2.5
MRT25-4,0	DN25	4.0

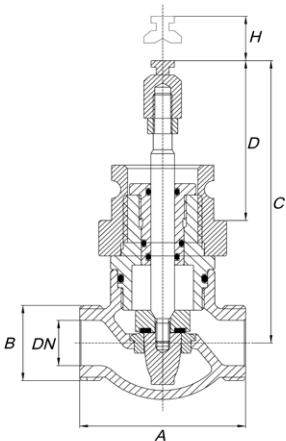
Technical data

Flow characteristics	Equal percentage
Max. diff. pressure	1.6 MPa
Temperature range	-5...+140°C
Media	Hot or cold water, cooling systems and steam
Connection	The valves have male threaded connections according to ISO 228/1, see the connection kits below
Stroke	20 mm
Max. leakage	0.0 % of the kvs value (PTFE gasket, carbon-filled, 25 % carbon)
Pressure class	PN16
Rangeability	100:1

Material

Body	Gunmetal 1400 LG2
Plug	Stainless steel 304S15
Seat	Stainless steel X3CrNiMoN27-5-2
Spindle	Stainless steel 303S31
Plug seal	PTFE (carbon-filled, 25 % carbon)
O-rings	Viton
Packing box	Dezincification resistant brass CW 602N

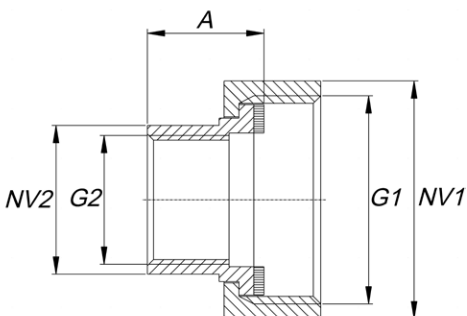
Dimensions



DN	A	B	C	D	H
20	70	1"	125	70	20
25	75	1 1/4"	130	70	20

Measurements in mm unless otherwise specified.

Accessories, connection kits

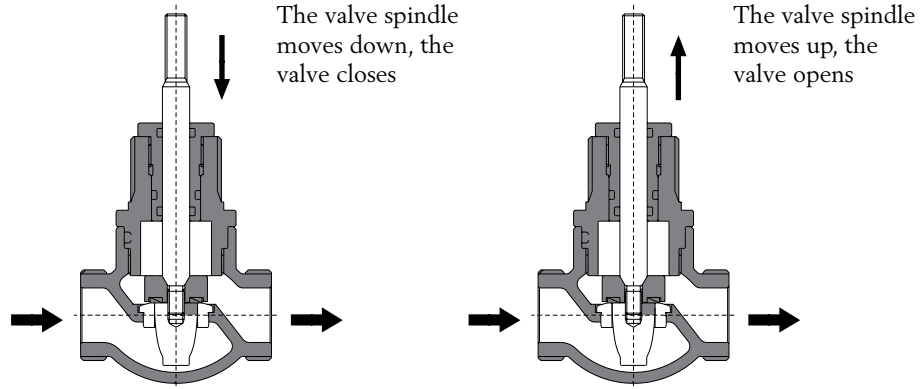


Model	G1	G2	NV1	NV2	A
MRTK-20	1"	1/2"	38	24	27.5
MRTK-25	1 1/4"	3/4"	50	30	30

Measurements in mm unless otherwise specified.

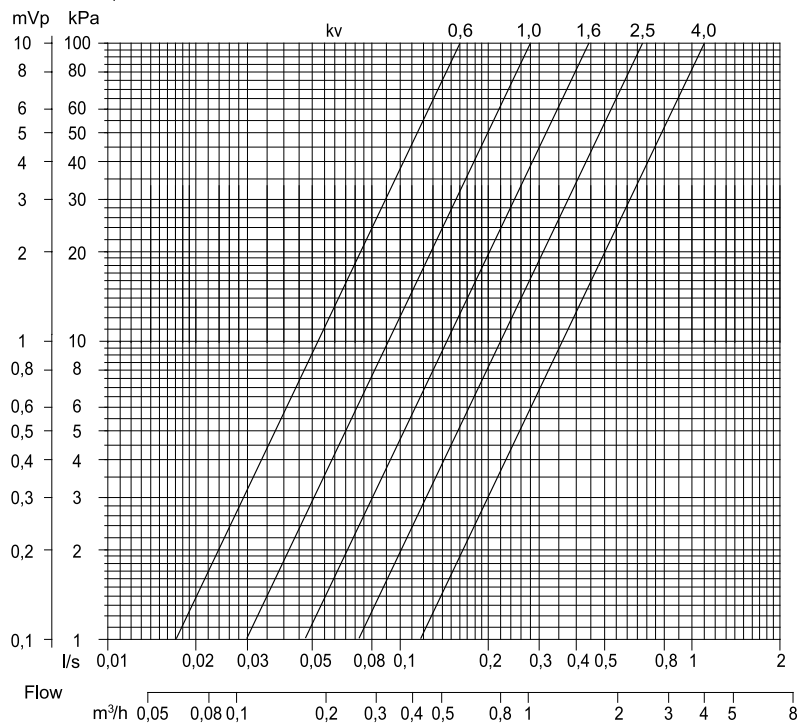
Design

Valve type:



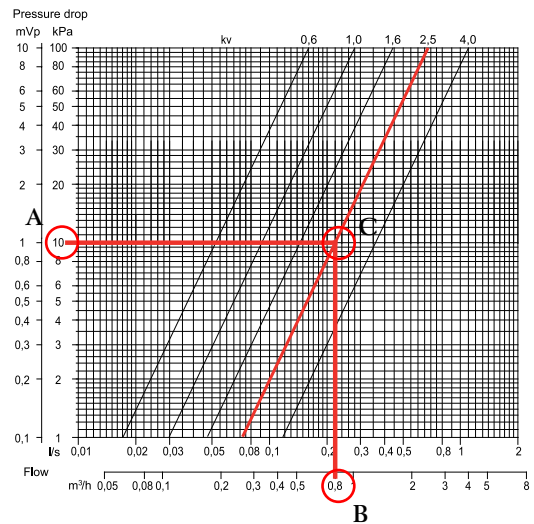
Pressure drop diagram

Pressure drop



Example: calculation of kv value

If the pressure drop is 10 kPa (A) and the flow is 0.8 m³/h (B), the kv value is 2.5 (C). See the markings in the picture to the right.



Suitable valve actuators for MRT

Model	Force	Supply voltage	Stroke time	Control signal
RVA5-24	500 N	24 V AC	60 s	3-position
RVA5-230	500 N	230 V AC	60 s	3-position
RVA5-24A	500 N	24 V AC / DC	30s	0...10 V

* Should be used together with adapter OVA-RS1

Spare parts

Packing box S6321457301

Product documentation

Document	Type
Instructions RVA5-24, RVA5-230, RVA5-24A	Instructions for valve actuators which can be used together with MRT

The product documentation is available for download from Regin's homepage, www.regin.se.