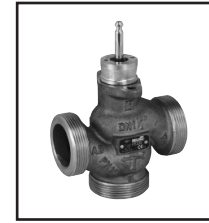


Selection: H5..B

K_{vs} [m³/h]	DN [mm]	3-way	Suitable linear actuator, 3-point	Suitable linear actuator, modulating DC 0 ... 10 V	Suitable linear actuator, modulating DC 0 ... 10 V with emergency control function
0.63	15	H511B	NV24-3 AC / DC 24 V	NV24-MFT AC / DC 24 V	NVF24-MFT AC / DC 24 V Emergency control function, pulling ²⁾
1	15	H512B			
1.6	15	H513B			
2.5	15	H514B			
4	15	H515B			
6.3	20	H520B	NV230-3 AC 230 V	NVY24-MFT AC / DC 24 V	NVF24-MFT-E AC / DC 24 V Emergency control function, pushing ³⁾
10	25	H525B			
16	32	H532B			
25	40	H540B			
40	50	H550B			

- 1) Recommended for DN 32 – DN 50 and high closing pressures
 2) Valve closed when deenergized
 3) Valve open when deenergized



3-way globe valves with external thread DN 15...50



For the modulating control of cold and warm water

Applications

- Water-side control of air handling units
- Water-side control in heating systems

Mode of operation

The globe valve is operated by an NV series linear actuator. The linear actuators are controlled by a standard modulating or 3-point control system and move the cone of the valve, the mixing device, to the opening position dictated by the control signal.

Product features

Equal-percentage characteristic
 Produced by the profiling of the valve cone. The bypass has a linear characteristic.

Manual operation with NV actuator
 Using a hexagonal key to turn the actuator.

- For installation instructions, refer to pages 30/31
- For closing pressure / differential pressure, refer to page 8
- Sizing diagram for globe valves, refer to page 9
- The information provided on pages 33/34 regarding operation, installation, project design, commissioning and maintenance must be strictly observed.
- For pipe connectors as accessories, refer to page 6

Technical data	H5..B
Flow media	Cold and warm water, water with max. 50% volume of glycol
Temperature of medium	(-10°C) +5°C...+120°C (-10°C on request)
Rated pressure ps	1600 kPa (PN 16)
Flow characteristic	Control path A-AB: equal-percentage (to VDI/VDE 2173) $n(ep) = 3$, optimized in opening range Bypass B-AB linear (to VDI/VDE 2173)
Rangeability	DN 15 $S_v > 50$ DN 20...50 $S_v > 100$
Leakage rate	Control path A-AB: max. 0.05 % of k_{vs} value Bypass B-AB: max. 1 % of k_{vs} value
Pipe connection	External thread to ISO 228
Differential pressure Δp_{max}	400 kPa
Closing pressure Δp_s	See table on page 8
Stroke	15 mm
Valve closing point	Up (Δ)
Installation position	Vertical to horizontal
Maintenance	Maintenance-free
Materials	
Fitting	Red casting brass Rg5
Valve cone	Brass
Valve seat	Red casting brass Rg5
Valve stem	Stainless steel
Stem gland seal	EPDM O-ring

Dimensions: H5..B

DN [mm]	Stroke [mm]	Dimensions [mm]			External thread G	Weight kg
		L	B	H		
15	15	80	55	46	G 1 1/8"	1.1
20	15	90	55	46	G 1 1/4"	1.2
25	15	110	55	52	G 1 1/2"	1.4
32	15	120	55	56	G 2"	2.0
40	15	130	60	65	G 2 1/4"	2.5
50	15	150	65	65	G 2 3/4"	3.5

A 3-way valve can be converted to a 2-way valve by sealing port B with a blind plug.

