

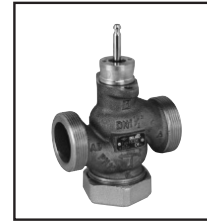
# H4..B globe valves, 2-way, with external thread

## Selection: H4..B

$k_{vs}$ [m <sup>3</sup> /h]	DN [mm]	2-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	<b>H411B</b>	<b>NV24-3</b> AC / DC 24 V	<b>NV24-MFT</b> AC / DC 24 V	<b>NVF24-MFT</b> AC / DC 24 V Emergency control function, pulling <sup>2)</sup>
1	15	<b>H412B</b>			
1.6	15	<b>H413B</b>			
2.5	15	<b>H414B</b>			
4	15	<b>H415B</b>			
6.3	20	<b>H420B</b>	<b>NV230-3</b> AC 230 V	<b>NVY24-MFT</b> AC / DC 24 V	<b>NVF24-MFT-E</b> AC / DC 24 V Emergency control function, pushing <sup>3)</sup>
10	25	<b>H425B</b>			
16	32	<b>H432B</b>	<b>NVG24-MFT<sup>1)</sup></b> AC / DC 24 V		
25	40	<b>H440B</b>			
40	50	<b>H450B</b>			

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

Technical data	H4..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
Rangeability	DN 15 Sv > 50 DN 20...50 Sv > 100
Leakage rate	Control path A-AB: max. 0.05 % of $k_{vs}$ value
Pipe connection	External thread to ISO 228
Differential pressure $\Delta p_{max}$	400 kPa
Closing pressure $\Delta p_s$	See table on page 8
Stroke	15 mm
Valve closing point	Up ( $\Delta$ )
Installation position	Vertical to horizontal
Maintenance	Maintenance-free
<b>Materials</b>	
Fitting	Red casting brass Rg5
Valve cone	Brass
Valve seat	Red casting brass Rg5
Valve stem	Stainless steel
Stem gland seal	EPDM O-ring



2-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 a 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 throttling device, to the opening position dictated by the control signal.

### Product features

#### Equal-percentage characteristic

Produced by the profiling of the valve cone.

#### 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

## Dimensions: H4..B

DN	Stroke	Dimensions [mm]			External thread	Weight
		L	B	H		
[mm]	[mm]				G	kg
15	15	80	65	46	G 1 1/8"	1.2
20	15	90	65	46	G 1 1/4"	1.3
25	15	110	66	52	G 1 1/2"	1.6
32	15	120	67	56	G 2"	2.2
40	15	130	72	65	G 2 1/4"	2.8
50	15	150	75	65	G 2 3/4"	3.9

A 2-way valve can be converted to a 3-way valve by removing the blind plug in port B.

