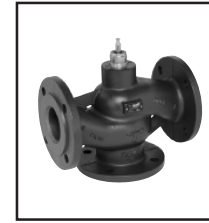


## Selection: H7..N

$k_{vs}$ [m <sup>3</sup> /h]	DN [mm]	3-way	Suitable linear actuator, 3-point	Suitable linear actuator, modulating DC 0 ... 10 V	Suitable lin. act., modul. DC 0 ... 10 V with emergency control function
0.63	15	<b>H711N</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>
1.6	15	<b>H713N</b>			
4	15	<b>H715N</b>			
6.3	20	<b>H720N</b>			
10	25	<b>H725N</b>			
16	32	<b>H732N</b>			
25	40	<b>H740N</b>			
40	50	<b>H750N</b>			
58	65	<b>H764N</b>			
90	80	<b>H779N</b>			
63	65	<b>H765N</b>	<b>AV24-3</b> AC / DC 24 V	<b>AV24-MFT</b> AC / DC 24 V	1) Recommended for DN 32 – DN 50 and high closing pressures 2) Valve closed when deenergized 3) Valve open when deenergized
100	80	<b>H780N</b>			
145	100	<b>H7100N</b>			
220	125	<b>H7125N</b>			
320	150	<b>H7150N</b>			
			<b>AV230-3</b> AC 230 V	<b>AVY24-MFT</b> AC / DC 24 V	



**3-way globe valves with flange**  
DN 15...150



**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.

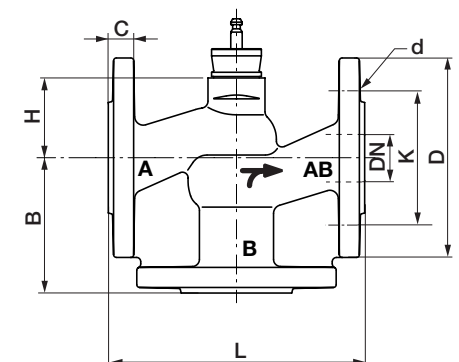
**Manual operation with NV actuator**  
Using a hexagonal key to turn the actuator.

- For installation instructions, refer to pages 30...32
- 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.

Technical data	H7..N
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 Sv > 50 DN 20...150 Sv > 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	Flange to ISO 7005-2 (PN 16)
Differential pressure $\Delta p_{max}$	400 kPa (with large DN: $\Delta p_s < \Delta p_{max}$ )
Closing pressure $\Delta p_s$	See table on page 8
Stroke	See Dimensions table
Valve closing point	Up ( $\Delta$ )
Installation position	Vertical to horizontal
Maintenance	Maintenance-free
<b>Materials</b>	
Fitting	DN 15...100 Cast iron GG25 DN 125...150 Cast iron GGG40.3
Valve cone	DN 15...100 brass, DN 125/150 stainless steel
Valve seat	Cast iron GG25
Valve stem	Stainless steel
Stem gland seal	DN 15...100 EPDM O-ring, DN 125/150 PTFE V-ring

## Dimensions: H7..N

DN [mm]	Stroke [mm]	Actuator Type	Dimensions [mm]			Flange				Weight kg	
			L	B	H	D	K	d	C		
15	15	NV..	130	65	46	95	65	4x14	14	2.8	
20	15		150	70	46	105	75	4x14	16	3.7	
25	15		160	75	52	115	85	4x14	16	4.7	
32	15		180	95	56	140	100	4x18	18	7.2	
40	15		200	100	64	150	110	4x18	18	9.2	
50	15		230	100	64	165	125	4x18	20	12.2	
65	18		290	120	100	185	145	4x18	20	19.0	
80	18		310	130	110	200	160	8x18	22	24.0	
65	30		AV..	290	120	100	185	145	4x18	20	19.0
80	30			310	130	110	200	160	8x18	22	24.0
100	30	350		150	125	220	180	8x18	24	34.0	
125	40	400		200	281	250	210	8x18	26	67.4	
150	40	480		210	343	285	240	8x22	26	93.8	



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