Honeywell

V5011P TWO-WAY THREADED GLOBE VALVE

SPECIFICATION DATA



Application

Single seated control or shutoff valve for:

- . hot water
- saturated steam
- chilled water

- superheated steam
- Domestic Hot Water •
- in Heating, Ventilating, Air Conditioning Systems **Open Circuits**
- To be operated by
- electric linear actuators as ML 6420 / 25 ML 7420 / 25 M 6421 M 7421

Features

- Bronze body with BSPT-threaded end connections.
- Low seat leakage rate (≤ 0.05 percent of K_{vs}). •
- Spring-loaded, self-adjusting packing.
- Accurate positioning to ensure state of the art • temperature control.
- Sizes rang from 1 in. to 2 in.
- Valve designs provide equal percentage flow characteristic for water and linear flow characteristic for steam.
- Stainless steel stem and metal-to metal seats.

Specifications

Action:		Stem down to close			
Nominal pressure rating:		20 bar (300 psi) for water			
		12 bar (185 psi) for steam			
Flow characteristic:		See Fig. 2			
Water		Equal percentage (V5011P1XXX)			
steam		Linear (V5011P2XXX)			
Rangeability:		50:1			
Leakage rate:		\leq 0.05% of K _{vs}			
Stroke:		20 mm			
Valve body:					
Pipe connections:		Internal BSPT-threaded			
Material:		Bronze			
Dimensions:		See Fig. 1			
Trim:					
Seat:		Stainless steel, replaceable Brass on V5011P1XXX			
Plug:		Stainless steel on V5011P2XXX			
Stem:		Stainless steel			
Packing:		Spring loaded carbon fiber			
		reinforced PTFE V-rings			
Medium tempera	ture and				
pressure:	Water	2 to 120 °C max. 20 bar			
	Steam	120 to 170 °C max. 12.8 bar < 120 °C max. 6.9 bar			
	Steam	< 120 °C max. 6.9 bar			

Sizes and flow capacities

Order Number	Valve size	K _{vs}
V5011P1004 (water)	DN25	10
V5011P1012 (water)	DN32	16
V5011P1020 (water)	DN40	25
V5011P1038 (water)	DN50	40
V5011P2002 (steam)	DN32	16
V5011P2010 (steam)	DN40	25
V5011P2028 (steam)	DN50	40

Installation

Water should meet VDI2035 requirements. Do not install valve with stem below the horizontal. Fluid flow must correspond with the arrow direction on the valve body.

The installation of a strainer is strongly recommended.

Spare Parts

Repair packing kit DN25...32: Order number 88609014-1 DN40...50: Order number 88609014-2

Close-off Pressure Ratings in kPa

Electric Actuators

Actuator				Valve	e size		
Туре	Force	DN15	DN20	DN25	DN32	DN40	DN50
ML6420 / ML6425 ML7420 / ML7425	600N	1600	1600	1000	700	460	260

Dimensions



Valve	Α	В	Y ₁	Y ₂ *
Size			stem	down
DN25	103	40	89	133
DN32	106	40		
DN40	120	47		
DN50	134	47		

For Actuator dimensions please refer to:

ML6420 / ML6425	EN0C-0623
ML7420 / ML7425	EN0C-0624

Fig. 1

Flow characteristic



Fig. 2. Equal percentage and linear flow characteristics.

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