

V5011P

TWO-WAY THREADED

GLOBE VALVE

- Bronze body with BSPT-threaded end connections.
- Low seat leakage rate (≤ 0.05 percent of Kvs).
- 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.



Technical Specification

Action	Stem down to close
Water	Equal percentage (V5011P1XXX)
Nominal pressure rating	20 bar (300 psi) for water 12 bar (185 psi) for steam
Flow characteristic	See Fig. 2
Rangeability	50:1
steam	Linear (V5011P2XXX)
Stroke:	20 mm
Leakage rate	$\leq 0.05\%$ of Kvs
Valve body End connections	Internal BSPT-threaded Bronze
Material	Cast iron (GG25)
Dimensions	See Fig. 1
Trim Seat	Stainless steel, replaceable
Plug:	Brass on V5011P1XXX Stainless steel on V5011P2XXX
Stem	Stainless steel
Packing	Spring loaded carbon fiber reinforced PTFE V-rings
Medium temperature and pressure: water	2 to 120 °C max. 20 bar 120 to 170 °C max. 12.8 bar
Steam	70 °C max. 6.9 bar

APPLICATION

Single seated control or shutoff valve for:

- hot water
- chilled water
- Domestic Hot Water
- saturated steam
- superheated steam

in Heating, Ventilating, Air Conditioning Systems
Open Circuits

To be operated by

- electric linear actuators as

ML 6420 / 25

ML 7420 / 25

M 6421

Sizes and flow capacities

Order Number	Valve Size	kVS
V5011P1004 (water)	DN25	10
V5011P1012 (water)	DN32	16
V5011P1004 (water)	DN40	25
V5011P1012 (water)	DN50	40
V5011P1004 (water)	DN25	10
V5011P1012 (water)	DN32	16
V5011P1004 (water)	DN40	25
V5011P1012 (water)	DN50	40

Close-off Pressure Ratings in kPa Electric Actuators

Actuator	Valve Size						
Model	Force	DN15	DN20	DN25	DN32	DN40	DN50
ML6420A, ML6425A ,B ML7420A, ML7425A,B	600N	1600	1600	1000	700	460	260

Dimensions

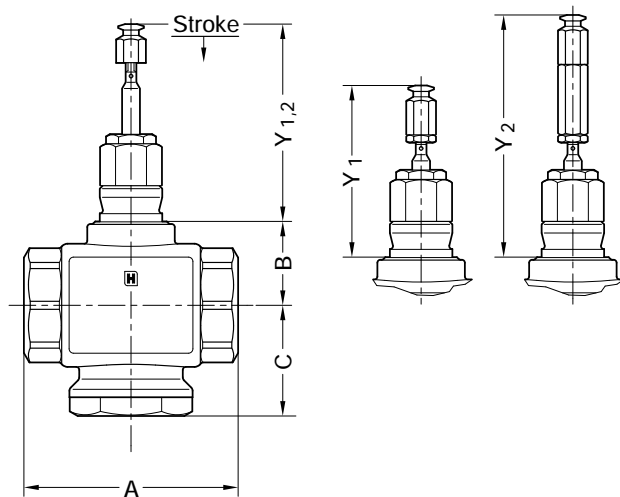


Fig. 1

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

DIMENSIONS (mm)

Valve Size	A	B	Y1	Y2* stem down
DN65	290	105	145	107 port
DN80	310	112	155	A-AB closed
DN65	290	105	145	107 port
DN80	310	112	155	A-AB closed

Flow characteristic

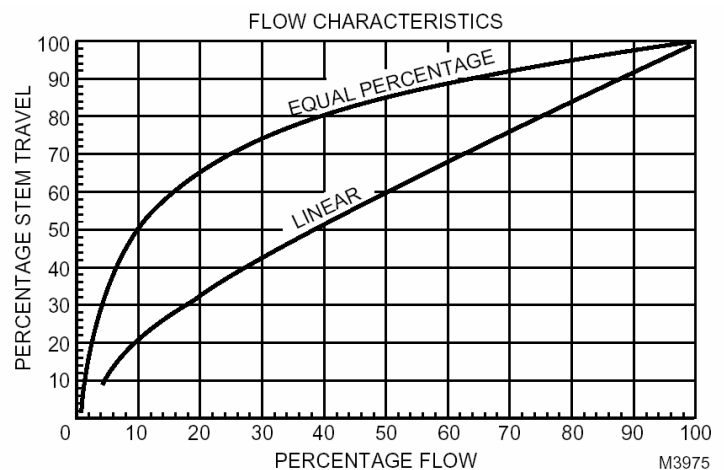


Fig. 2. Equal percentage and linear flow characteristics.

For more information,
<https://honeywellbuildings.in>
Call: 1-800-103-0339
Email: HBT-Indiabuildings@honeywell.com

Honeywell HBT India Buildings
Unitech Trade Center, 5th Floor, Sector-43,
Block C, Sushant Lok Phase - I,
Gurgaon - 122 002

www.honeywell.com

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