



L/PV-1

## Ball Valves Series L/PV-1

### Versions 2-, 3-, 4-, 5-way, Type 2L/PV-1, 3L/PV-1, 4L/PV-1, 5L/PV-1

- Corrosion resistant
- Compact design
- Gas tight
- Maintenance free
- Easy to operate
- Easy mounting
- Controlled position as option

#### Application

The compact ball valves series L are applicable to shut off gases and liquids. The valves work in a temperature range between -20 °C to +80 °C. The construction of the ball valves is concipated for the analysis technique and especially for the shut-off and switching-over of sample-, test- and reference gases.

The used material guarantees an excellent chemical resistance against flue gases, SO<sub>2</sub>, etc.. Please contact us in case of solvents.

#### Description

The ball valves series L are gastight, maintenance-free and they can easily be handled by means of the big T-handle.

The valves are available as 2-, 3-, 4- and 5-way executions, with the type designation **2L/PV-1**, **3L/PV-1**, **4L/PV-1** and **5L/PV-1**. The ball valves are made of PVDF with a nominal width of 4 mm.

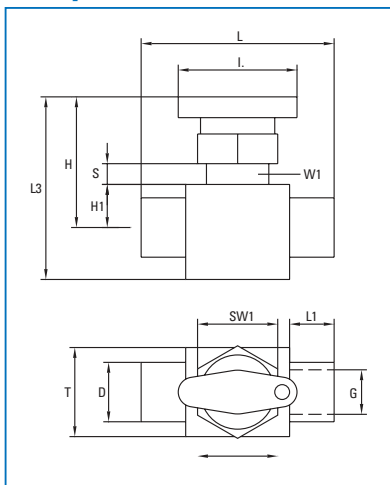
The sealing of the ball is caused by means of adjustable circular shapes and FPM o-rings. The ball valves are equipped with G1/4" female connectors. Corresponding tube- and hose fittings are available in our range of products.  
– See data sheet 7-1.1 / 7-3.1. –

The ball valves are fixed with a locknut. This provides a simple system mounting and the inlet- and outlet connections can be located as requested.

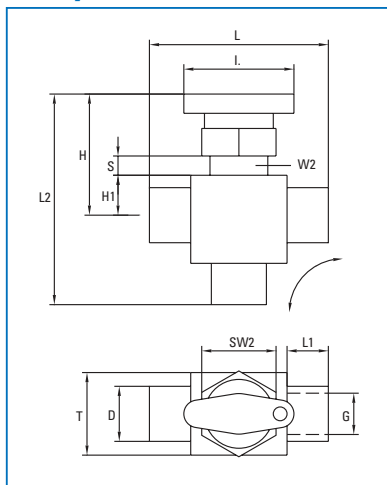
For control of a fixed position, e.g. when switching over from sample gas to test gas, a micro switch /K including position plate, mounting angles, terminals and complete assembly is available for all ball valve executions. The status alarm is realised by a potential free change over contact.

Dimensions

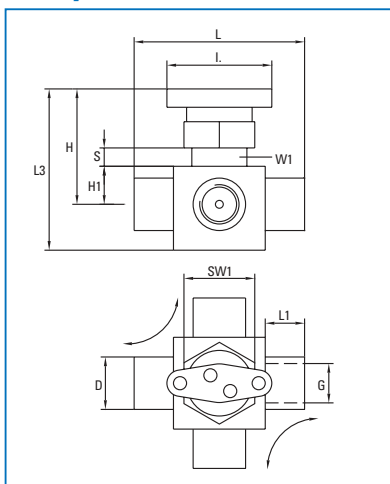
2-way-ball valve 2L/PV-1



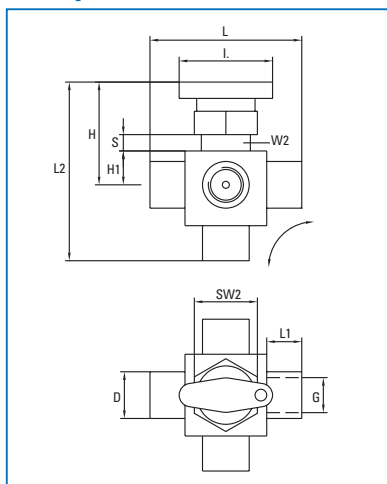
3-way-ball valve 3L/PV-1



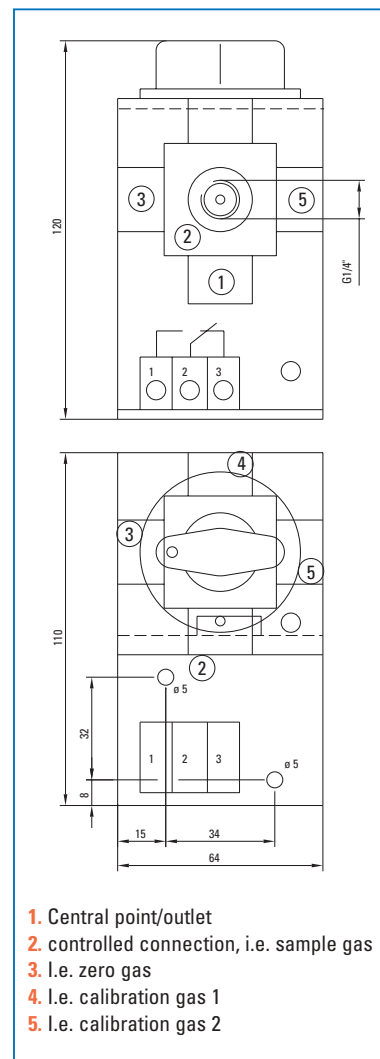
4-way-ball valve 4L/PV-1



5-way-ball valve 5L/PV-1

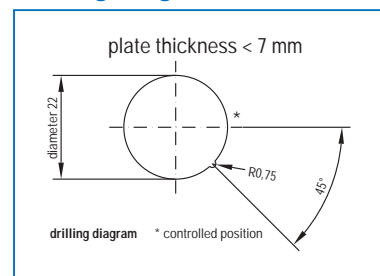


5-way-ball valve 5L/PV-1 with status contact



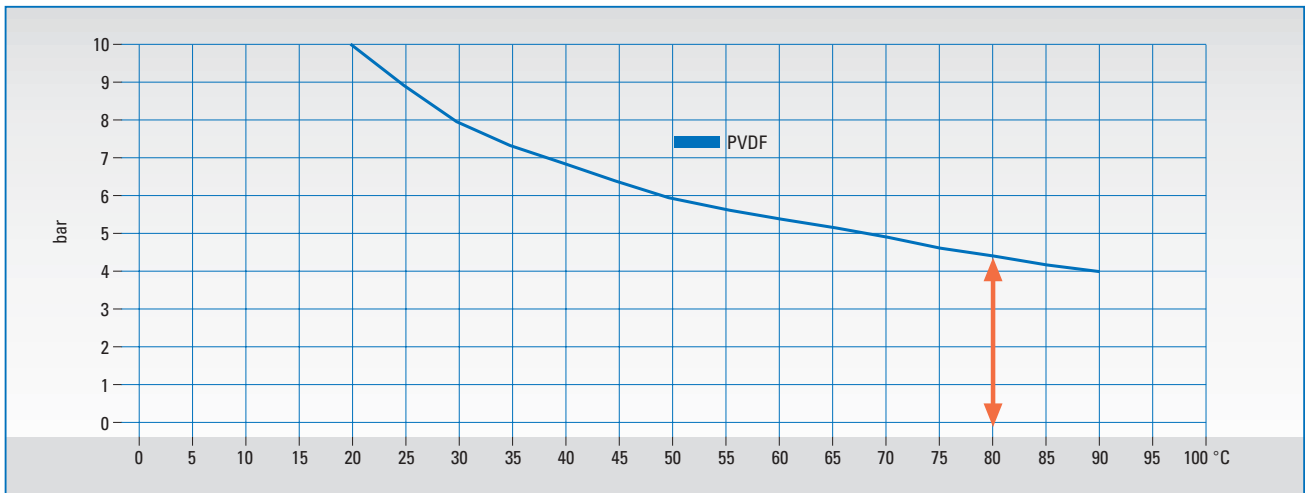
Dimensions in mm

Drilling diagramm



D	G	H	H1	I	L	L1	L2	L3	s	SW1	SW2	T	w1	w2
ø 20	G1/4"i	41,5	12,5	46	65	15	75	57,5	max. 5	32	27	32	26	22

## max. operation pressure depending on the operation temperature



The max. operation pressure decreases with increasing temperature.  
The temperature of 20 °C is related to air at 65% humidity (DIN 50014).

## Technical Data

ball valves series L	type 2L/PV1	type 3L/PV1	type 4L/PV1	type 5L/PV1	Contact /K
<b>Part No.</b>	<b>01V3000</b>	<b>01V3050</b>	<b>01V3100</b>	<b>01V3150</b>	<b>01V2005</b>
<b>Ball hole</b>	I-form	L-form vertical	2x L-form	L-form vertical	
<b>Nominal width</b>	NW 4*				
<b>Max. operating pressure at 20 °C</b>	PN10, 10 bar				
<b>Flow coefficient</b>	0,43*				
<b>Operating- and ambient temperature</b>	-20 up to +80 °C*				-10 up to +60 °C
<b>Storage temperature</b>	-30 up to +110 °C				-25 up to +70 °C
<b>Operation</b>	manual				manual
<b>Type of mounting</b>	front plate option for wall mounting: mounting angles as /K, part no.: <b>01V2006</b>   <b>01V2004</b>   <b>01V2006</b>   <b>01V2004</b>				wall mounting
<b>Material of sample contacting parts</b>	PVDF, FPM*				
<b>Connections G1/4" i DIN ISO 228/1*</b>	2x	3x	4x	5x	
<b>Controlled position</b>					1x
<b>Electrical connection</b>					terminals 3 x 4 mm <sup>2</sup>
<b>Protection</b>					IP20 EN 60529
<b>Max. contact rating of change over contact</b>					48V, 0,5A, 24W
<b>Weight</b>	0,07 kg	0,08 kg	0,09 kg	0,1 kg	0,14 kg

\* Standard version ex stock; other structural shape, material, nominal width or connections upon request.