# **Seated valves**





# Directional seated valves type VP

Type VP 1 valves are designed as zero-leakage, cone-seated valves and can be used as 2/2-, 3/2- and 4/2-way directional valves. The internal pressure balance enables free selection of the flow direction and maximum pressure resistance of all ports. Due to the air-switching actuation, there is no risk of interaction between actuation elements and the medium used. No sticking or resinification as a result of increased temperatures is possible.

The preferred area of application is hydraulic lubrication systems that use high-viscosity grease or oils. Other fluids in the relevant viscosity range can also be considered provided they have the appropriate seal compatibility.

### Features and benefits:

- Freely selectable flow direction
- No interaction between actuation elements and medium
- No sticking or resinification as a result of increased temperatures is possible.

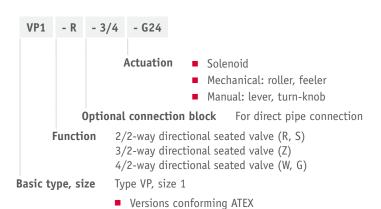
#### **Intended applications:**

- Lubricating systems
- Mining machinery
- Construction and construction materials machinery
- Handling and assembly technology



Nomen- clature:	Directional seated valve, zero leakage
Design:	Manifold mounting
Actuation:	Solenoid Hydraulic Pneumatic
p <sub>max</sub> :	400 bar
Q <sub>max</sub> :	15 lpm

### Design and order coding example



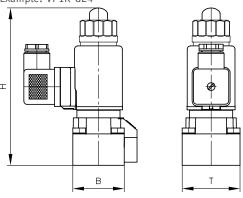
### **Actuation:**

Solenoid	Hydraulic	Pneumatic		
	_ <b>†</b>	T		
Solenoid voltage: 12V DC; 24V DC; 110V AC, 230V AC	Control pressure:  p <sub>control min</sub> = 24 bar  p <sub>control max</sub> = 320 bar	Control pressure: $p_{control min} = 2 3.5 \text{ bar}$ $p_{control max} = 15 \text{ bar}$		

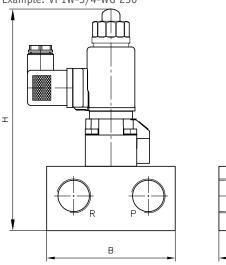
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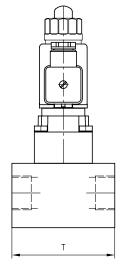
# General parameters and dimensions





Valve with sub-plate Example: VP1W-3/4-WG 230





	Q <sub>max</sub> [lpm]	p <sub>max</sub> [bar]	Ports (BSPP)	Dimensions [mm]			m <sub>max</sub> [kg]
			A, B, C	H <sub>max</sub>	B <sub>max</sub>	T <sub>max</sub>	
VP 1	15	400	G 1/4, G 3/8, G 3/4	127	40	50	1.0
VP 1 with sub-plate				147 177	50 100	45 80	1.5 2.2

-  $H_{\text{max}}$ : Figures apply to solenoid actuation

## Associated technical data sheets:

■ Directional seated valves type VP: <u>D 7915</u>

# Similar products:

Directional seated valves type BVG1, BVP1, BVE, NBVP16:
 D 7400, D 7921, D 7765 N

## Plugs:

■ With LEDs or

to support the EMV etc.: <u>D 7163</u>

■ With economy circuit: <u>D 7813</u>, <u>D 7833</u>