

Directional seated valves type VP

The valves type VP 1 are zero leakage, seated cone valves available as 2/2-, 3/2- and 4/2-way directional valves. The internal pressure balance enables an arbitrary flow direction and maximum pressure for all ports. The actuation is separated from the hydraulic fluid, therefore any interaction between control elements and the pressure fluid is prevented, side effect is that gumming/sticking due to excessive fluid temperature is prevented.

Main field of application are lube systems especially when lubricants with high viscosity e.g. oil or grease are used. Any other fluid with similar viscosity may be suited as well, as long as it is compatible with the seal



Nomenclature:	Directional seated valve, zero leakage
Design:	Manifold mounting
Actuation:	Solenoid Hydraulic Pneumatic
p _{max} :	400 bar
Q _{max} :	15 lpm

Symbol





Basic types and general parameters

Basic type and size

Manifold mounting	Flow	Oper. pressure	Tapped ports (BSPP)					
valve	Q _{max} (lpm)	p _{max} (bar)	A, B, C	R	S	Z	G	w
VP 1	T 15	400	G 1/4, G 3/4					

Actuations		
	Actuation parameter	Symbol
Solenoid	Solenoid voltage:	Я
	12V DC; 24V DC;	
	230V AC 50/60 Hz	
Hydraulic	Control pressure:	+
	p _{contr min} = 24 bar	
	p _{contr max} = 320 bar	
Pneumatic	Control pressure:	\checkmark
	$p_{contr min} = 2 \dots 3,5 bar$	
	p _{contr max} = 15 bar	

Solenoid voltage

- 12V DC, 24V DC, 230V AC 50/60 Hz
- Other voltage on request
- also versions conforming ATEX
- Plug with LED, improving EMC, or with economy circuit (see also section "Additional information")

Additional versions

- Version with mechanical actuation (roller, pin)
- Version with manual actuation (key lever, turn-knob.)

Order examples

VP 1 R - G 24

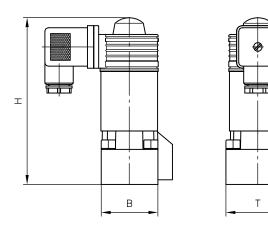
Directional seated valve type VP 1 with flow pattern symbol R (2/2-way function), solenoid voltage 24V DC

VP 1 W - 3/4 - WG 230

Directional seated valve type VP 1 with flow pattern symbol W (4/2-way function), connection block for pipe connection, solenoid voltage 230V AC 50/60 Hz

Dimensions

Individual valve (see order example)

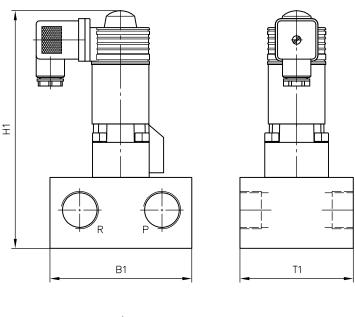


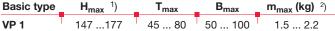
All dimensions in mm, subject to change without notice!

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Valve with sub-plate (see order example)





¹) Max. figures apply to solenoid actuation

²) Valve with connection block

Additional information

• Directional seated valves	type VP	D 7915
	type BVG, BVP	D 7400
	type BVG1, BVP1	D 7765
	type BVE	D 7921
	type NBVP16	D 7765 N

• Plug with LED etc.	D 7163
Plug with economy circuit	D 7813, D 7833

For page and section of the devices additionally listed, see type index