Seated valves





Directional seated valves type BVG, BVE, BVP and NBVP

The group of directional seated valves type BVG, BVE and BVP includes 2/2- and 3/2-way directional valves in two sizes. Size 1 valves feature a version with standard connection diagram NG 6 (type NBVP) and a version with 4/3-way function. They are designed as zero-leakage, cone seated valves. All ports are equally pressure-resistant due to an internal static pressure balance. The valves can be connected via pipes (type BVG), screwed onto self-manufactured base plates (type BVP) and industrial standard connection plates (type NBVP)or screwed into self-manufactured valve blocks as a screw-in valve (type BVE). The various actuation modes (type BVE with solenoid actuation only) enable use of these valves in a wide range of applications. Additional elements for ports P, R, A and B (e.g. orifices, check valves and restrictor check valves) can be incorporated in the valve block to tailor the range of possible applications to the special requirements of the customer.

Features and benefits:

- Zero-leakage, cone seated construction
- Pressure switch can be directly mounted
- Complete system solution with compact hydraulic power packs made from the modular system
- ATEX-compliant version

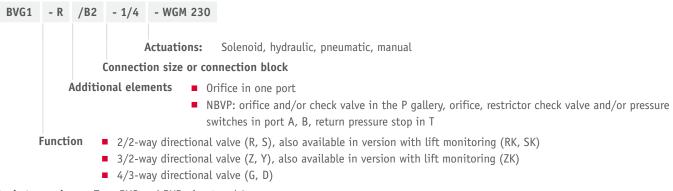
Intended applications:

- Machine tools
- Woodworking and processing machinery
- Testing machinery
- Jig construction



Nomen- clature:	Directional seated valve, zero leakage
Design:	Individual valve for pipe connection Individual valve, Manifold mounting
Actuation:	Solenoid Hydraulic Pneumatic Manual
p _{max} :	400 bar
Q _{max} :	20 300 lpm

Design and order coding example



Basic type, size

Type BVG and BVP, size 1 and 3 Type BVE, size 1, 3 and 5

Type NBVP (with standard connection diagram NG 6), size 1

Actuations:

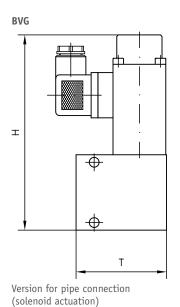
Solenoid	Hydraulic	Pneumatic	Manual
P-1 L-1	¥ 57 上 - 1 ¹	\$- ¹	F-H F-H
Solenoid voltages: 12V DC, 24V DC, 110V AC, 230V AC BVP 1, NBVP16 also available in ATEX-compliant version Version with M12 plug and 8-watt solenoid	Control pressure: $p_{contr. min} = 24 \text{ bar}$ $p_{contr. max} = 320 \text{ bar}$	Control pressure: $p_{contr. min} = 2 3.5 \text{ bar}$ $p_{contr. max} = 15 \text{ bar}$	Actuation torque: approx. 1.5 3 Nm

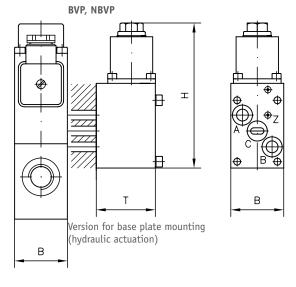


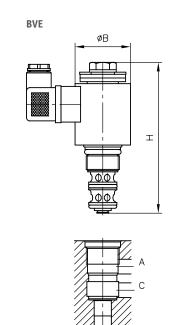
Function D SK Z ZK G RK S Υ R α∏≦ 3 ol 2 o 3 a 2 ° 3 ol 2 o ρД

- Additional flow pattern symbols available ${\bf G},\,{\bf D}\!:$ only type NBVP16

General parameters and dimensions







	Q _{max} [lpm]	p _{max} [bar]	p _{max} [bar] Ports (BSPP)		Dimensions [mm]		
			A, B, C	H _{max}	B _{max}	T _{max}	
BVG 1	20	400/2501)	G 1/4, G 3/8	115 (130)	60	40	1.6
BVP 1					35	39	1.0
NBVP 16	20	400/2501)	NG 6	230	45	45	2.1
BVG 3	50	320	G 1/2	145	80	50	3.3
SVP 3				155	50	76	2.4
BVE 1	20	500	-	121	37	-	0.4
BVE 3	70	400		122.5	45	-	0.7
BVE 5	300	400	-	206.5	72	-	1.5

- 1) with solenoid actuation GM.. and WGM
- BVE: screw-in valve, also available with connection block for pipe connection

Associated technical data sheets: Directional seated valves

Type BVG, BVP: <u>D 7400</u>
 Type BVG1, BVP1: <u>D 7765</u>

Type BVE: <u>D 7921</u>
 Type NBVP: <u>D 7765 N</u>

Products:

Type BA: <u>D 7788</u>
 Type NZP: <u>D 7788 Z</u>
 Type BVH: <u>D 7788 BV</u>

Pluqs:

■ With LED etc.: <u>D 7163</u>

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