

Ball valve actuator unit VZPR

FESTO



Characteristics

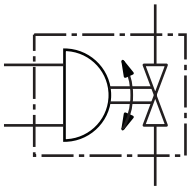
At a glance

- Combination of a pneumatic quarter-turn actuator and a ball valve
- The flow is fully opened or closed in both directions
- 5/2-way valve with Namur connection pattern can be flange-mounted directly onto the actuator unit
- Limit switch attachments for sensing the end positions can be flange-mounted directly onto the actuator unit

Design type

- Brass version
- Connection pattern to NAMUR VDI/VDE 3845
- PN level according to DIN EN 1333

Function



Type code

001	Series	
VZPR	Ball valve actuator unit	

002	Valve type	
B	Ball valve	

003	Actuator	
P	Quarter turn actuator DAPS	

004	Mode of operation	
D	Double-acting	

005	Valve function	
22	2/2-way	

006	Pneumatic connection	
R1	R1	
R14	R1/4	
R12	R1/2	
R114	R1 1/4	
R112	R1 1/2	
R2	R2	
R212	R2 1/2	
R34	R3/4	
R38	R3/8	

Datasheet

General technical data

Connection Process valve	Rp1/4	Rp3/8	Rp1/2	Rp3/4	Rp1	Rp1 1/4	Rp1 1/2	Rp2	Rp2 1/2
Design	2-way ball valve, Semi-rotary drive								
Type of mounting	CNOMO, Via female thread								
Mounting position	optional								
Type of actuation	Electric, Pneumatic								
Nominal size DN	15		20	25	32	40	50	63	
Product weight	1,300		1,200	1,500	1,800	3,200	3,800	5,400	7,300

Operating and environmental conditions

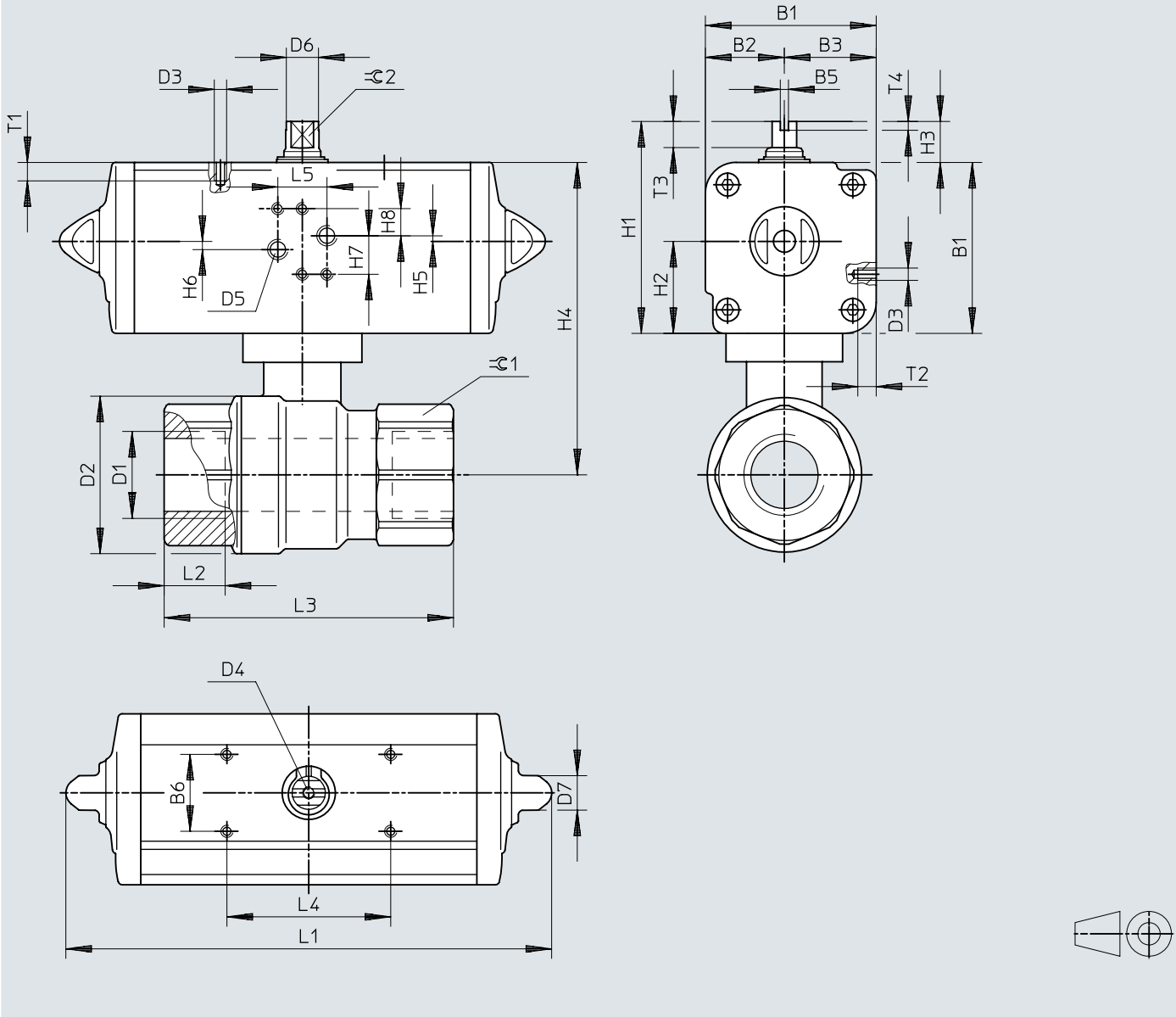
Connection Process valve	Rp1/4	Rp3/8	Rp1/2	Rp3/4	Rp1	Rp1 1/4	Rp1 1/2	Rp2	Rp2 1/2
Ambient temperature	-20 ... 80°C								
Media temperature	-20 ... 150°C								
Operating pressure of ball valve drive unit	1 ... 8.4 bar								
Nominal pressure PN ¹⁾	40						25		
Corrosion resistance class CRC	1 - Low corrosion stress								

1) PN level according to DIN EN 1333

Dimensions

Dimensions – Ball valve actuator units VZPR-BPD

Download CAD data www.festo.com



Dimensions

	D1	B1	B2	B3	B5	B6	D2 Ø max.	D3	D4	D5	D6 Ø	D7 Ø	H1	H2	H3	H4										
VZPR-BPD-22-R14	Rp1/4	52,2	24,2	28	4	30	35	M5	M6	G1/8	9,2	13	72,2	28	20	92,2										
VZPR-BPD-22-R38	Rp3/8																									
VZPR-BPD-22-R12	Rp1/2	59,2	27,7	31,5							10,9	13	79,2	31,5	20	104,2										
VZPR-BPD-22-R34	Rp3/4																									
VZPR-BPD-22-R1	Rp1	70,4	32,7	37,7													65	75	90	110	14,5	13	90,4	37,7	20	130,2
VZPR-BPD-22-R114	Rp1 1/4																									
VZPR-BPD-22-R112	Rp1 1/2																									135,4
VZPR-BPD-22-R2	Rp2																									83,3
VZPR-BPD-22-R212	Rp2 1/2	107,5	51	56,5			20,2										22	137,5	56,5	30	192,5					

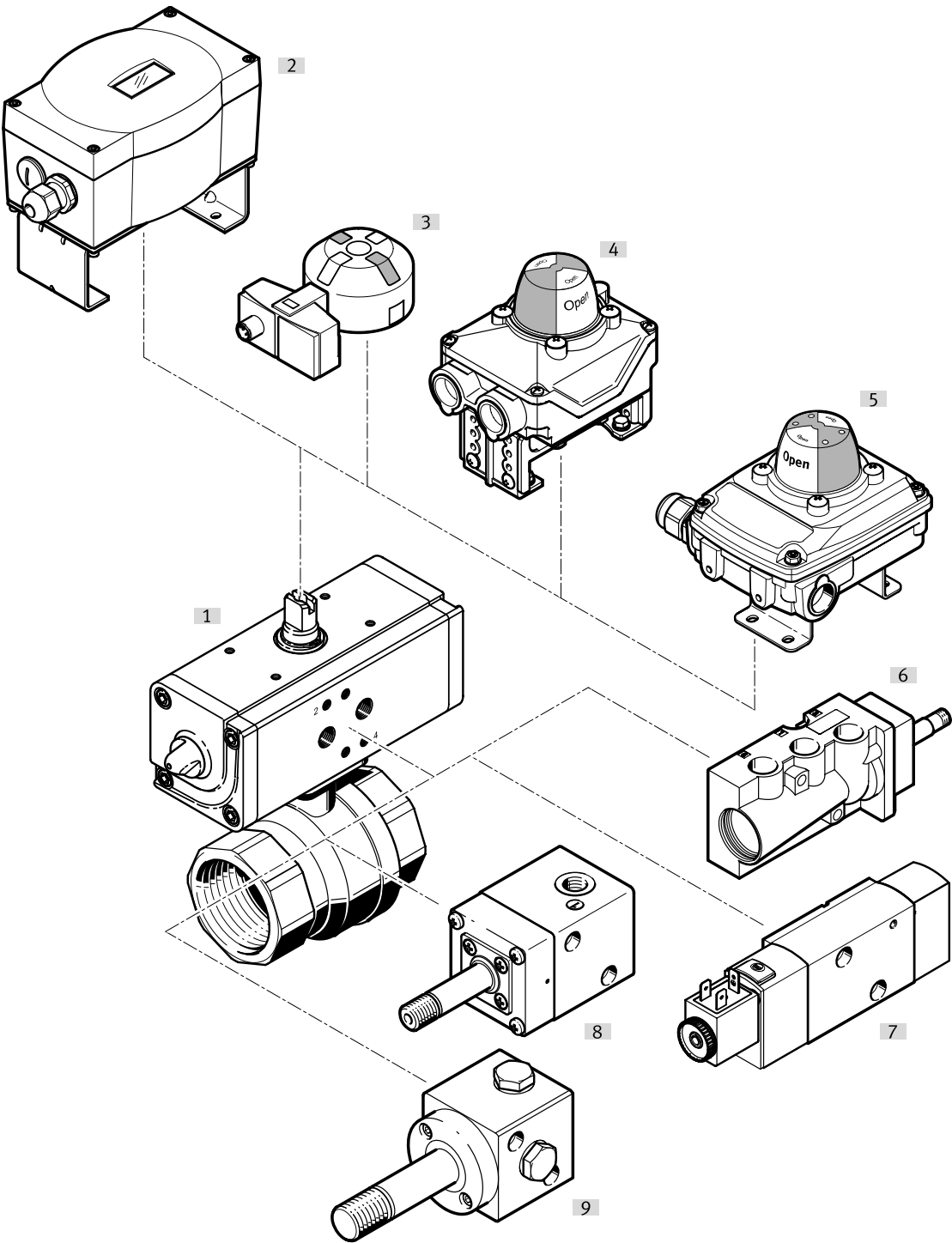
	H5	H6	H7	H8	L1	L2	L3	L4	L5	T1	T2	T3	T4	≈G1	≈G2
VZPR-BPD-22-R14	0,8	3,2	18	14	159	15	75	80	24	6	7	10	4	26	8
VZPR-BPD-22-R38															
VZPR-BPD-22-R12															
VZPR-BPD-22-R34					10	32	9								
VZPR-BPD-22-R1															
VZPR-BPD-22-R114	4	13			50	10									
VZPR-BPD-22-R112															
VZPR-BPD-22-R2	4	13			70	12									
VZPR-BPD-22-R212															

Ordering data

Ordering data				
	Connection Process valve	Nominal pressure PN	Part no.	Type
	Rp1/4	40	540510	VZPR-BPD-22-R14
	Rp3/8		540511	VZPR-BPD-22-R38
	Rp1/2		540512	VZPR-BPD-22-R12
	Rp3/4		540513	VZPR-BPD-22-R34
	Rp1		540514	VZPR-BPD-22-R1
	Rp1 1/4		540515	VZPR-BPD-22-R114
	Rp1 1/2		540516	VZPR-BPD-22-R112
	Rp2	25	540517	VZPR-BPD-22-R2
	Rp2 1/2		540874	VZPR-BPD-22-R212

Peripherals

Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Ball valve actuator unit VZPR	Combination of quarter turn actuator and ball valve, versions in brass	vzpr
[2] Positioner CMSX	For controlling the position of quarter turn actuators in process automation systems	cmsx
[3] Sensor boxes SRBG	For electrical feedback and control of the position of process valves operated by quarter turn actuators	srbg
[4] Limit switch box SRBK	- Pre-assembled mounting flange adapter for ease of installation 3D OPEN/CLOSED position indicator	srbk
[5] Sensor boxes SRBC	For electrical feedback and control of the position of process valves operated by quarter turn actuators	srbc
[6] Solenoid valves NVF3	For F solenoid coil and explosion-proof F solenoid coil	nvf3
[7] Solenoid valves VSNC	For single- and double-acting quarter turn actuators with connection pattern VDI/VDE 3845	vsnc
[8] Solenoid valves VOFC	Solenoid valve with solenoid coil, NAMUR connection pattern	vofc

Peripherals

Accessories		→ Link
Type/order code	Description	
[9] Solenoid valves VOFD	Solenoid valve with solenoid coil, NAMUR connection pattern	vofd