



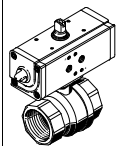
Ball valve actuators VZPR



Ball valve actuators VZPR

Key features and product range overview

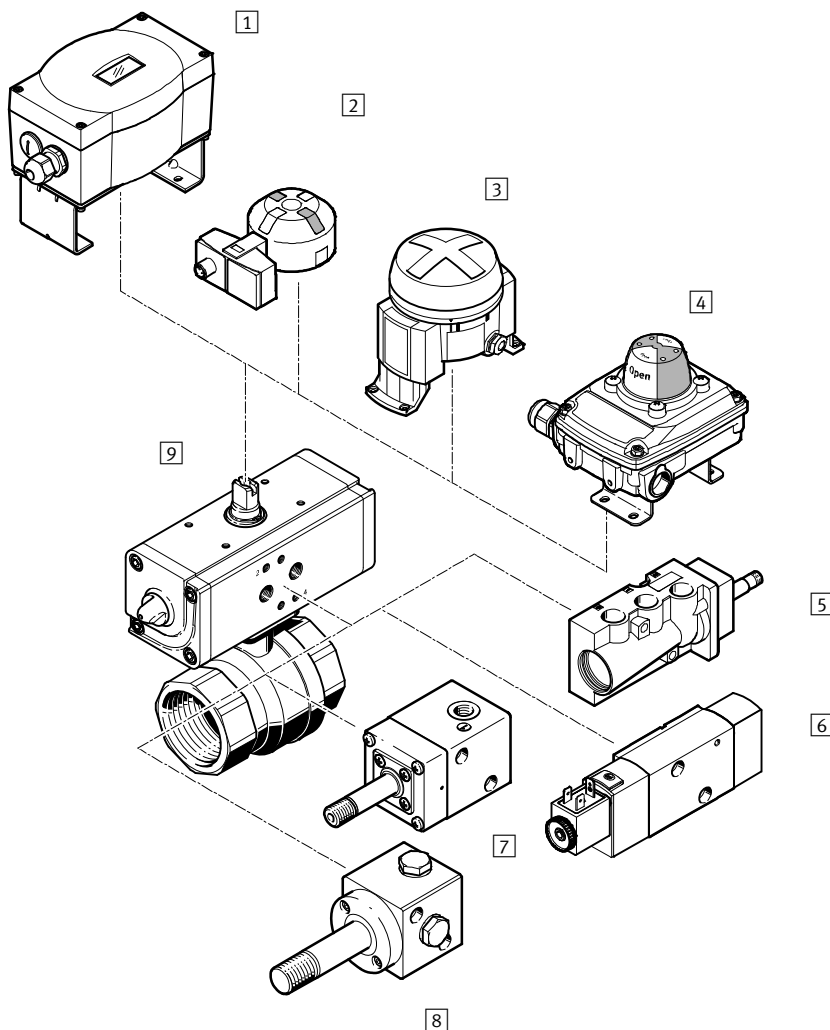
General	Construction	Characteristics	
<ul style="list-style-type: none"> -  - Connecting thread Rp$\frac{1}{4}$... Rp$2\frac{1}{2}$ -  - Flow rate Kv 5.9 ... 535 m³/h 	<ul style="list-style-type: none"> • Brass design VZPR-... • Port pattern to NAMUR VDI/VDE 3845 • PN class to DIN EN 1333 	<ul style="list-style-type: none"> • Combination of a pneumatic quarter-turn actuator and a ball valve • Flow is fully opened or closed in both directions • 5/2-way valve with NAMUR port pattern can be mounted directly on the drive unit • Limit switch attachments for end-position sensing can be mounted directly on the drive unit 	<p>Valves with NAMUR port pattern → Internet: namur</p> <p>Limit switch attachments with NAMUR mounting-hole pattern → Internet: dapz</p>

Version	Type	Connecting thread ¹⁾	Nominal diameter [mm]	Nominal pressure of process valve [bar]	→ Page/Internet
Brass					
	VZPR-BPD-...	Rp $\frac{1}{4}$	15	PN 40	5
		Rp $\frac{3}{8}$	15	PN 40	
		Rp $\frac{1}{2}$	15	PN 40	
		Rp $\frac{3}{4}$	20	PN 40	
		Rp1	25	PN 40	
		Rp $1\frac{1}{4}$	32	PN 40	
		Rp $1\frac{1}{2}$	40	PN 25	
		Rp2	50	PN 25	
Rp $2\frac{1}{2}$	63	PN 25			

1) Cylindrical barrel with female thread to DIN ISO 228-1

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Peripherals overview



Mounting components and accessories		
	Brief description	→ Page/Internet
1	Positioner CMSX	For position control of quarter turn actuators in process automation systems cmsx
2	Sensor boxes SRBG	For electrical feedback and position monitoring of process valves which are actuated with quarter turn actuators srbg
3	Limit switch attachments DAPZ	Round design, variant AR Electrical, inductive or inductive and explosion-proof sensing dapz
4	Sensor boxes SRBC	For electrical feedback and position monitoring of process valves which are actuated with quarter turn actuators srbc
5	Solenoid valves NVF3	For F solenoid coil and explosion-proof F solenoid coil nvf3
6	Solenoid valves VSNC	For single- and double-acting quarter turn actuators with a connection pattern to VDI/VDE 3845 vsnc
7	Solenoid valves VOFC	Solenoid valve with solenoid coil, connection pattern to Namur vofc
8	Solenoid valves VOFD	Solenoid valve with solenoid coil, connection pattern to Namur vofd
9	Ball valve actuator unit VZPR	Combination of quarter turn actuator and ball valve, versions in brass 5

Ball valve actuators VZPR

Type codes

VZPR - B P D - 22 - R 38

Type	
VZPR	Ball valve actuator

Valve	
B	Ball valve

Drive	
P	Quarter-turn actuator DAPS

Mode of operation	
D	Double-acting

Valve function	
22	2/2-way valve

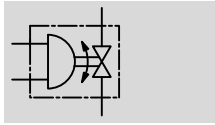
Closing direction	
R	Closes to right



Connecting thread	
14	Rp1/4
38	Rp3/8
12	Rp1/2
34	Rp3/4
1	Rp1
114	Rp1 1/4
112	Rp1 1/2
2	Rp2
212	Rp2 1/2

Ball valve actuators VZPR-BPD



Technical data

Function



-  Swivel angle
0 ... 90°
-  Flow rate Kv
5.9 ... 535 m³/h



-  Connecting thread
Rp1/4 ... Rp2 1/2
-  Torque
15 ... 180 Nm

General technical data										
Connecting thread	Rp1/4	Rp3/8	Rp1/2	Rp3/4	Rp1	Rp1 1/4	Rp1 1/2	Rp2	Rp2 1/2	
Quarter-turn actuator										
Pneumatic connection	G1/8									
Constructional design	Scotch yoke mechanism, double-acting									
Type of mounting	Via female threads									
Mounting position	Any									
Swivel angle	[°]	90								
Closing direction	Closes to right									
Torque at 5.6 bar and 0° swivel angle	[Nm]	15	15	15	30	30	60	60	106	180
Ball valve										
Valve function	2/2									
Constructional design	2-way ball valve									
Sealing principle	Soft									
Actuation type	Pneumatic									
Direction of flow	Reversible									
Nominal diameter	[mm]	15	15	15	20	25	32	40	50	63
Flow rate Kv	[m ³ /h]	5.9	9.4	17	41	70	121	200	292	535

Operating and environmental conditions									
Connecting thread	Rp1/4	Rp3/8	Rp1/2	Rp3/4	Rp1	Rp1 1/4	Rp1 1/2	Rp2	Rp2 1/2
Ambient temperature	[°C]	-20 ... +80							
Temperature of medium	[°C]	-20 ... +150							
Quarter-turn actuator									
Operating pressure ¹⁾	[bar]	1 ... 8.4							
Operating medium	Dried air, lubricated or unlubricated								
Ball valve									
Nominal pressure of process valve ²⁾	PN 40	PN 40	PN 40	PN 40	PN 40	PN 40	PN 25	PN 25	PN 25
Operating medium	Compressed air, water, neutral gasses, neutral fluids, vacuum								

1) Minimum operating pressures vary for single-acting quarter-turn actuators depending upon spring quantity.
 2) PN class to DIN EN 1333.

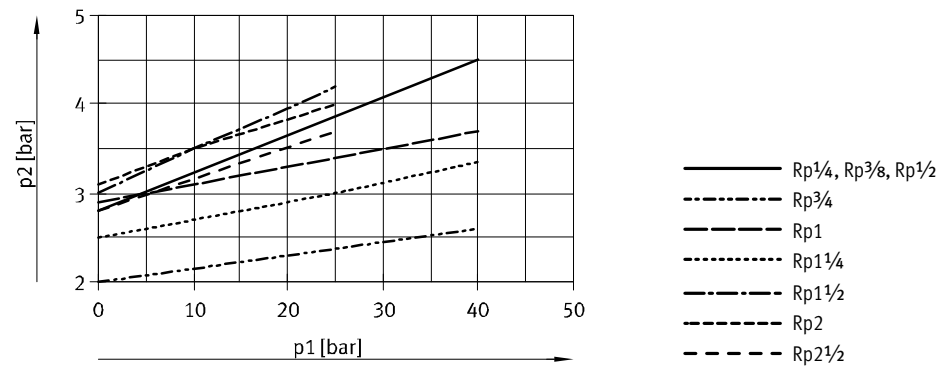
Ball valve actuators VZPR-BPD

Technical data

Materials		
Housing		Brass
Ball		Brass
Seals	Housing	Polytetrafluoroethylene, fibre glass reinforced
	Shaft	Fluoro elastomer

Weight [g]			
Connecting thread		Connecting thread	
Rp1/4	1300	Rp1 1/4	3200
Rp3/8	1300	Rp1 1/2	3800
Rp1/2	1200	Rp2	5400
Rp3/4	1500	Rp2 1/2	7300
Rp1	1800		

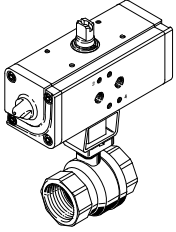
Operating pressure p2 as a function of nominal operating pressure p1



Ball valve actuators VZPR-BPD

Technical data

FESTO

Ordering data – Ball valve actuators			
	Connecting thread	Part No.	Type
	Rp1/4	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	540517	VZPR-BPD-22-R2
	Rp2 1/2	540874	VZPR-BPD-22-R212

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