

3/2 way Solenoid Valve for compressed air and vacuum applications

- Service friendly manual override
- Vacuum specific version
- Optimized piston design for low switching pressure
- Energy saving impulse coil



Type 0344 can be combined with...

Type 2508

Cable plug

The pilot-controlled 3/2 way valve Type 0344 with a smoothly operating servo-piston requires a differential pressure of 0.25 bar for complete opening and closing. A 3/2 way pilot valve (pivoted armature valve) ensures safe and reliable operation. It is available in circuit function C and D. An additional return spring ensures reliable switching behavior at low pressures and vacuum.

ΓK

3/2 way valve, when de-energized outlet port A exhausted, with 3-way pilot control

Circuit function C

Circuit function C

(Impulse)



3/2 way valve, when de-energized outlet port

1

3/2 way valve, when de-energized outlet port A exhausted, with 3-way pilot control

B pressurized, with 3-way pilot control

Technical data							
Orifice	DN8.0 40 mm						
Body material	Brass						
Coil material	Ероху						
Coil insulation class	н						
Seal material	NBR						
Medium	Neutral gases, compressed air, vacuum						
Medium temperature	0+90 °C						
Ambient temperature	Max. + 55 °C						
Voltage tolerance	±10%						
Duty cycle	Continuous operation 100% ED						
Electrical connection	Cable plug for Ø 7 mm cable, acc. to DIN EN 175 30-803 Form A (supplied as standard)						
Protection class	IP65 with cable plug						
Installation	As required, preferably with actuator upright						
Flow rate Q _{Nn} value air [l/min]	Measured at + 20 $^{\circ}$ C, 1 bar pressure at valve inlet and free outlet						
Pressure values [bar]	Overpressure with respect to atmospheric pressure						
Response times [ms]: Opening Closing	Measured with water at valve outlet at 6 bar and + 20 °C Pressure rise 090%, Pressure drop 10010%						

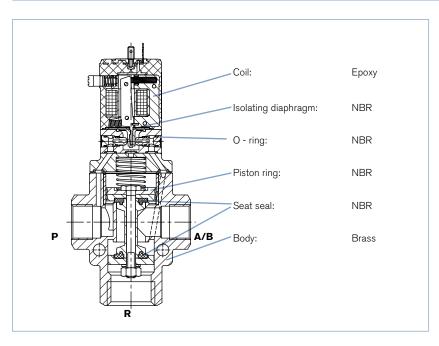
* Cable plug Type 2508 (supplied as standard) acc. to DIN EN 175 301-803, Form A



Technical data

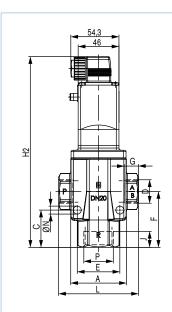
				Power c	onsumptio	n		Response		
Orifice [mm]	Q _{№n} value air P→A [I/min]	Port connection A/B and P	Pressure range [bar]	Inrush AC [VA]	C (hot coil)		Hot/cold coil DC [W]	Opening [ms]	Closing [ms]	Weight [kg]
8	1030	G ¼	Vacuum	30	15	8	8/11	25	25	1.0
12	2800	G ½	to	30	15	8	8/11	30	30	1.2
20	7200	G 34	3 bar	30	15	8	8/11	40	40	2.2
25	11000	G 1		30	15	8	8/11	70	70	2.7
40	26000	G 1 ½		30	15	8	8/11	120	120	6.8

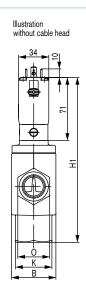
Materials





Dimensions [mm]





This dimensional drawing shows a valve in circuit function C with the port specifications P, R and A/B (manual override via port P). In circuit function D the manual override is located above the port A/B (pilot rotated 180° compared to circuit function C). (Vacuum pump connected at port R, atmospheric pressure connected at port P.)

DN	Α	В	С	D	E	F	G	H1	H2	J	ĸ	L	ØN	0	R
8	46	33	23	G ¼	30	34.5	12	124.8	153.8	12	SW22	65	7	SW22	G %
12	46	33	31	G %	34	47	12	150.5	179.5	16	F32	76	7	SW27	G ¾
12	46	33	31	G ½	34	47	14	150.5	179.5	16	F32	76	7	SW27	G ¾
20	62	50	42	G ¾	48	63	16	186	215	18	F41	90	9	SW36	G 1
25	82	60	44	G 1	66	74.5	18	210.5	239.5	20	Ø 54	110	9	F41	G 1 ¼
40	117	88	65	G 1 ½	93	104	22.5	264	293	26.5	Ø 78	153	13	SW55	G 2