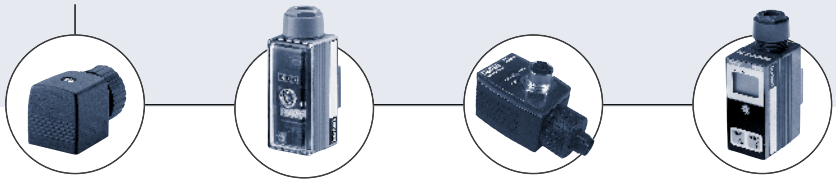
3/2–way Solenoid Valve sub–base connection



- 3–way solenoid valve with pivoted armature and manual override
- Direct–acting with isolating diaphragm
- Fast–acting
- For liquid, gaseous and aggressive media
- Long service life, even in non–lube conditions
- FM UL CSA CE

Type 0331 can be combined with…



Type 2508
Cable plug

Type 1078
Timer unit

Type 2511
ASI cable plug

Type 8600
Dosing control

The Type 0331 is a direct-acting 3/2–way pivoted armature solenoid valve for sub-base mounting. The magnetic system and the media chamber are separated from one another by a separating diaphragm system.

The valve is fast acting and has a long service life, even when run dry.

Power consumption			
Inrush		**Hold**	
AC [VA]	DC [W]	AC [VA/W]	DC [W]
30	8 or 5	15/8	8 or 5

Technical data	
Orifice	DN 2.0 – 4.0 mm
Body and seat materials	Brass and stainless steel 316
Seal material	FKM
Media NBR EPDM FKM	 Neutral media such as compressed air, water, hydraulic oil Oil and fat–free media Hot air, oxygen
Media temperature NBR EPDM FKM	 32°F to 176°F (0°C to +80°C) –22°F to 194°F (–30°C to +90°C) 32°F to 194°F (0°C to +90°C)
Ambient temperature	Max. 131°F (+55°C)
Viscosity	Max. 37 cst
Voltage tolerance	±10%
Duty cycle	60% continuous rating when mounted on manifold
Electrical connection	DIN 43650, form A
Protection class	IP 65 with cable plug Type 2508 or 2509
Installation	As required, preferably with actuator upright

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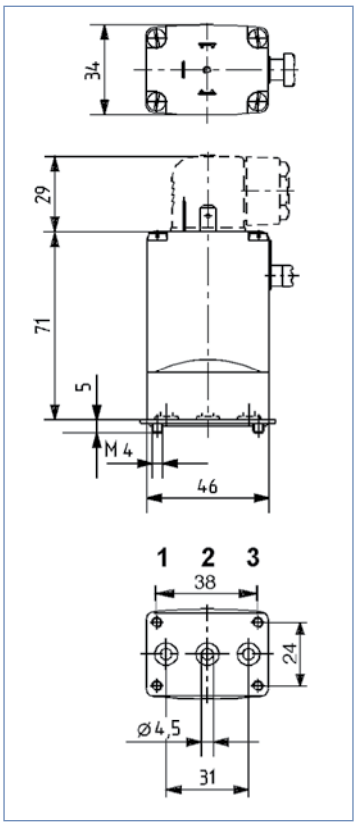
Possible connections and dimensions

Possible connections			
Circuit function	1	2	3
A	P	A	–
B	–	B	P
C	P	A	R
D	R	B	P
E or T	P1	A	P2
F	A	P	B

The ports marked with 1, 2 and 3 in the drawing are marked as in the allocation table, depending on the circuit function.

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Dimensions

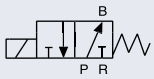
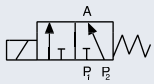


The valves are fitted with different springs. When used in other circuit functions, the permissible operating pressure changes according to the following table.

Circuit function	Max. operating pressure [PSI] for valve use in other circuit function																	
	Orifice 2 [mm]						Orifice 3 [mm]						Orifice 4 [mm]					
WW	A	B	C	D	E	F	A	B	C	D	E	F	A	B	C	D	E	F
C	232	21	232	21	21	232	145	14.5	145	14.5	14.5	145	72	11.6	72	11.6	11.6	72
D	58	377	65	232	58	58	36	145	36	145	29	43	29	72	29	72	29	29
E or T	116	116	145	145	145	116	87	87	87	87	87	87	43	43	43	43	43	43
F	145	21	145	21	21	232	87	14.5	87	14.5	14.5	145	58	11.6	58	11.6	11.6	72

Ordering chart for valves (other versions on request)

All valves with sub-base connection, manual override and cable plug, body material stainless steel or brass

Circuit function	Orifice [mm]	Port connection	Cv value water [GPM]	Pressure range [PSI]	Seal material	Body material	Voltage/ frequency [V/Hz]	Item no. UL Recognized/ CSA/CE Cable plug not included	Item no. UL/FM Class 1, Div 2/CSA/CE Includes 1/2" conduit plug type 2509
C 3/2–way valve NC 	2.0	Sub–base	0.09	0 – 174	FKM	Stainless steel	024/DC	451 745 G	–––
			0.09	0 – 174	FKM	Brass	024/DC	*450 831 S	453 029 Y
			0.11	0 – 174	FKM		024/60	*456 491 Q	453 028 X
							120/60	*455 518 Z	453 027 N
							240/60	–––	453 264 Z
	3.0	Sub–base	0.14	0 – 145	FKM	Stainless steel	024/DC	451 751 E	–––
			0.17	0 – 145	FKM		120/60	460 133 Y	–––
			0.14	0 – 145	FKM	Brass	024/DC	*450 829 G	453 266 A
			0.17	0 – 145			024/60	–––	453 268 L
							120/60	450 305 K	453 270 J
							240/60	450 587 W	453 272 G
	4.0	Sub–base	0.25	72	FKM	Brass	024/60	458 995 T	–––
							120/60	459 002 C	–––
							240/60	459 001 B	–––
D 3/2–way valve NO 	2.0	Sub–base	0.09	0 – 174	FKM	Brass	024/DC	*450 792 B	453 032 K
			0.11	0 – 174	FKM		024/60	451 757 C	453 031 J
							120/60	451 758 M	453 030 V
							240/60	–––	–––
	3.0	Sub–base	0.14	0 – 145	FKM	Brass	024/DC	*450 830 D	453 279 P
			0.17	0 – 145	FKM		024/60	*454 396 W	–––
							120/60	451 764 B	459 041 A
							240/60	–––	–––
E 3/2–way 	2.0	Sub–base	0.09	0 – 145	FKM	Brass	024/DC	–––	–––
			0.11	0 – 145	FKM		024/60	–––	–––
							120/60	453 768 R	–––
							240/60	–––	–––
	3.0	Sub-base	0.14	0 – 87	FKM	Brass	024/DC	*455 541 Y	–––
			0.17	0 – 87	FKM		024/60	–––	–––
							120/60	–––	451 927 P
							240/60	–––	–––

Vacuum versions available on request

FM Class1, Div 1, Versions available on request

* CE approved only

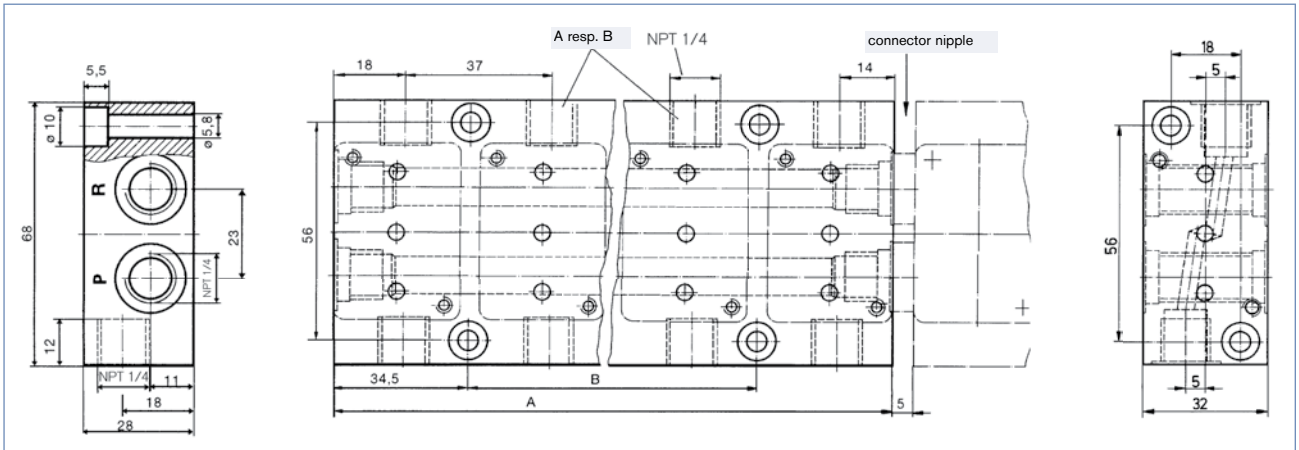
** See 2509 datasheet for plug dimensions

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Ordering chart for flange valve manifolds and accessories (All manifolds made of anodised aluminium)

Manifold	Length A [mm]	Hole spacing B [mm]	Item no.
1 valve	32	–	613 983 J
2 valves	69	–	006 110 W
3 valves	106	37	613 706 C
4 valves	143	74	006 111 K
5 valves	180	111	613 704 A
6 valves	217	148	613 703 H
Accessory parts			
Connector nipple			005 049 F
Covering plate for unused valve positions			005 625 V

Dimensions



Multiple manifold

Single manifold

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