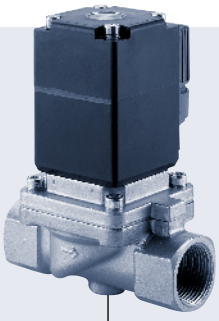
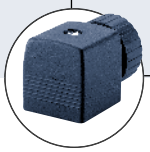
2/2-way Solenoid Valve for gases and fluids



- Universal valve with coupled diaphragm system
- Switches without differential pressure
- For gases and liquids
- Brass and stainless steel bodies
- Seal material NBR, EPDM and FKM
- Approvals:

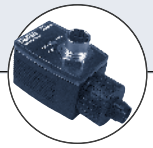
Type 0290 can be combined with...



Type 2508
Cable plug



Type 1078
Timer unit



Type 2511
ASI cable plug



Type 8600
Dosing control

Pilot-controlled normally–closed valve with servo-diaphragm, forced valve lifting and coupled magnetic system. The valve switches without differential pressure from 0 bar with gases and liquids.

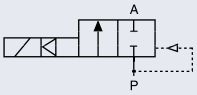
Power consumption		
Orifice	Inrush	Hold
[mm]	UC [W]	UC [W]
12	80	6
20 – 40	100	9
50	30	30

Technical data	
Orifice	7/16" – 2" (DN 12 – 50 mm)
Body material	Brass, stainless steel 1.4581
Internal parts of valve	See drawing on page 2
Seal material	NBR, FKM, EPDM
Media NBR FKM EPDM	 Neutral media, compressed air, water, hydraulic oil Per-solutions, hot oils, oxygen Oil and fat-free media, e.g., hot water
Media temperature for NBR for FKM for EPDM	 14°F to 176°F (–10°C to +80°C) 32°F to 248°F (0°C to +120°C) –22°F to 248°F (–30°C to +120°C)
Ambient temperature	Max. 131°F (+55°C)
Voltage tolerance	±10%
Duty cycle	100% continuous cycle
Electrical connection	Cable plug for Ø 7 mm cable (supplied as standard)
Protection class	IP 65 with cable plug
Installation	As required, preferably with actuator upright

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Solenoid valves

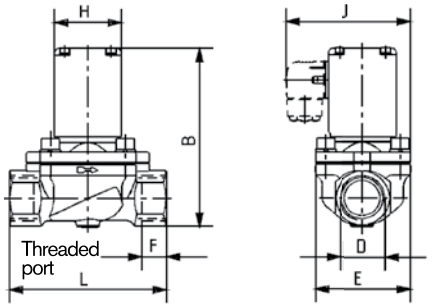
Ordering chart for valves (other versions on request) – all valves with cable plugs, brass bodies and various diaphragm materials

Circuit function	Orifice [mm]	Port connection [NPT]	Cv value water [GPM]	Pressure range [psi]	Body material	Voltage/ universal [AC/DC]	Approval ratings[2)]	Order number
A 2/2–way valve NC 	12	NPT 1/2	3.3	0 – 232	Brass	24	UR	453 877 X
							UL	452 746 A
							-	452 239 E
						120	UL	453 058 D
							-	450 869 Q
						240	UL	452 745 H
	12	NPT 1/2	3.3	0 – 232	Stainless Steel	24	UR	454 216 Z
							UL	453 179 B
							-	452 241 G
						120	UL	452 819 U
						240	UL	453 180 Z
	20	NPT 3/4	5.8	0 – 232	Brass	24	UR	453 878 G
							UL	453 181 N
							-	450 639 R
						120	UL	453 182 P
							-	450 836 X
						240	UR	455 291 W
	20	NPT 3/4	5.8	0 – 232	Stainless Steel	24	UR	454 412 N
							UL	453 184 R
						120	UR	453 792 S
							UL	452 747 B
							-	450 748 W
						240	UL	456 119 S
	25	NPT 1	11.7	0 – 232	Brass	24	UL	452 862 X
							-	450 649 T
						120	UR	453 793 T
							UL	453 185 J
							-	450 474 C
						240	UL	457 230 E
							-	450 824 T
	25	NPT 1	11.7	0 – 232	Stainless Steel	24	UL	453 187 L
							-	452 253 C
						120	UR	453 794 U
							UL	453 188 V
						240	UL	453 189 W
	32	NPT 1 1/4	18.0	0 – 174	Brass	24	-	455 624 T
						120	-	453 641 A
	40	NPT 1 1/2	18.0	0 – 174	Brass	24	-	455 625 U
						120	-	453 642 B
						240	-	454 276 D
	50	NPT 2	44.0	0 – 174	Brass	120	-	453 643 C*
						240	-	454 263 G*

For 50 mm orifice and UC (universal current), the cable plug has an integrated single–phase bridge.

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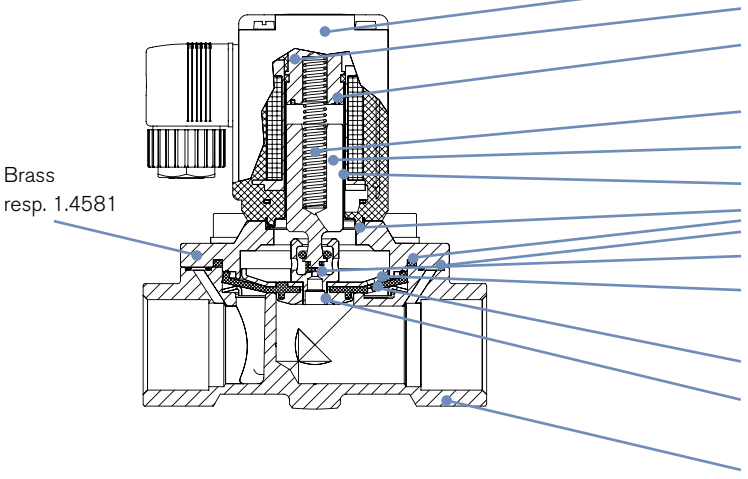
Dimensions [mm]



Dimensions [mm] according to DIN 2501

DN	D	B	E	F	H	J	L
12	NPT 1/2	95.5	40	14	40	73.0	74.5
20	NPT 3/4	122.0	60	16	49	86.5	100.0
25	NPT 1	131.0	70	18	49	91.5	115.0
32	NPT 1 1/4	145.0	85	20	49	99.0	126.0
40	NPT 1 1/2	154.0	85	22	49	99.0	126.0
50	NPT 2	211.0	115	24	72	126.0	164.0

Material



Coil:	Epoxy
Stopper:	1.4105
Shading ring: (only AC version)	Brass version: copper Stainless steel version: silver
Spring:	1.4310
Magnetic core:	1.4105
Guide tube	1.4303
O– ring:	(see ordering chart)
Seat seal	(see ordering chart)
Diaphragm support disc	Brass version: CuZn39983 Stainless steel version: 1.4401
Diaphragm	(see ordering chart)
Pilot seat	Brass version: CuZn39983 Stainless steel version: 1.4401
Body	Brass or stainless steel

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