








Servo-assisted 2/2 way diaphragm valve

- 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:     

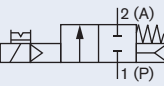
The 0290 valve is a servo-assisted solenoid valve of the S.EV series. The valve opens without differential pressure. The opening process is supported by the fixed coupling of the diaphragm to the plunger. In the process, the integrated 'soft-kick' function opens in a manner that is gentle on the material. Various diaphragm material combinations are available depending on the application. The housing offered is rounded out by a stainless steel and grey cast iron version. The solenoid coils are moulded with a chemically resistant epoxy. 'Kick and drop' electronics are moulded into all DC variants for reduced electrical power consumption. In combination with a plug in accordance with DIN EN 175301-803 Form A, the valves satisfy protection class IP65 – in combination with a stainless steel housing NEMA 4X..

Power consumption		
Orifice	Inrush	Hold
[mm]	UC [W]	UC [W]
12	120	8.5
20-40	145	10
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	Neutral media, compressed air, water, hydraulic oil
FKM	Per-solutions, hot oils, oxygen
EPDM	Oil and fat-free media, e.g., hot water
Media temperature	
for NBR	14°F to 176°F (–10°C to +80°C)
for FKM	32°F to 248°F (0°C to +120°C)
for EPDM	–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	Tag connector acc. DIN 175301-803 Form A
Protection class	IP 65 with cable plug
Installation	As required, preferably with actuator upright
Coil insulation class	H

Ordering chart for valves (other versions on request)

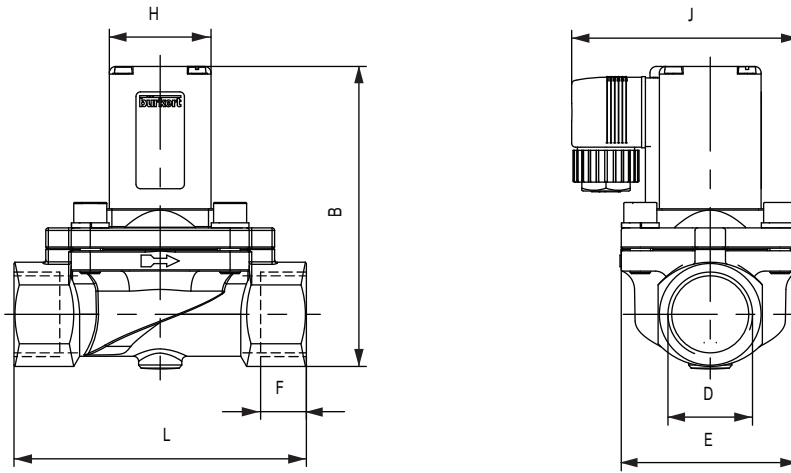
UL recognized/CSA/CE - Manual override, supplied without cable plug, different seal materials on request

Circuit function	Orifice [mm]	Port connection	C _v value water [GPM]	Pressure range [PSI]	Body material	Voltage/frequency [AC/DC]	Approval ratings	Item no.
A 2/2 way servo-controlled solenoid valve, normally closed 	12	NPT 1/2	2.1	0 – 232	Brass	24	UR	298 129
							UL	298 109
							-	452 239
						120	UL	298 110
							-	450 869
						240	UL	298 111
	12	NPT 1/2	2.1	0 – 232	Stainless Steel	24	UR	298 134
							UL	298 112
							-	452 241
						120	UL	298 113
						240	UL	298 114
	20	NPT 3/4	7.5	0 – 232	Brass	24	UR	298 130
							UL	298 115
							-	450 639
						120	UL	298 116
							UR	298 125
						240	UR	309 194
	20	NPT 3/4	7.5	0 – 232	Stainless Steel	24	UR	298 136
							UL	298 117
						120	UR	298 126
							UL	298 118
							-	-
						240	UL	-
25	NPT 1	11.7	0 – 232	Brass	24	UL	298 119	
						-	450 649	
					120	UR	298 127	
						UL	298 120	
						-	-	
					240	UL	298 121	
25	NPT 1	11.7	0 – 232	Stainless Steel	24	UL	298 122	
						-	452 253	
					120	UR	328 904	
						UL	298 123	
					240	UL	298 124	
32	NPT 1 1/4	18.0	0 – 174	Brass	24	-	455 624	
					120	UR	315 214	
40	NPT 1 1/2	18.0	0 – 174	Brass	24	-	455 625	
					120	UR	315 242	
					240	-	454 276	
50	NPT 2	44.0	0 – 174	Brass	120	-	453 643	
					240	-	454 263	

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

Dimensions [mm]

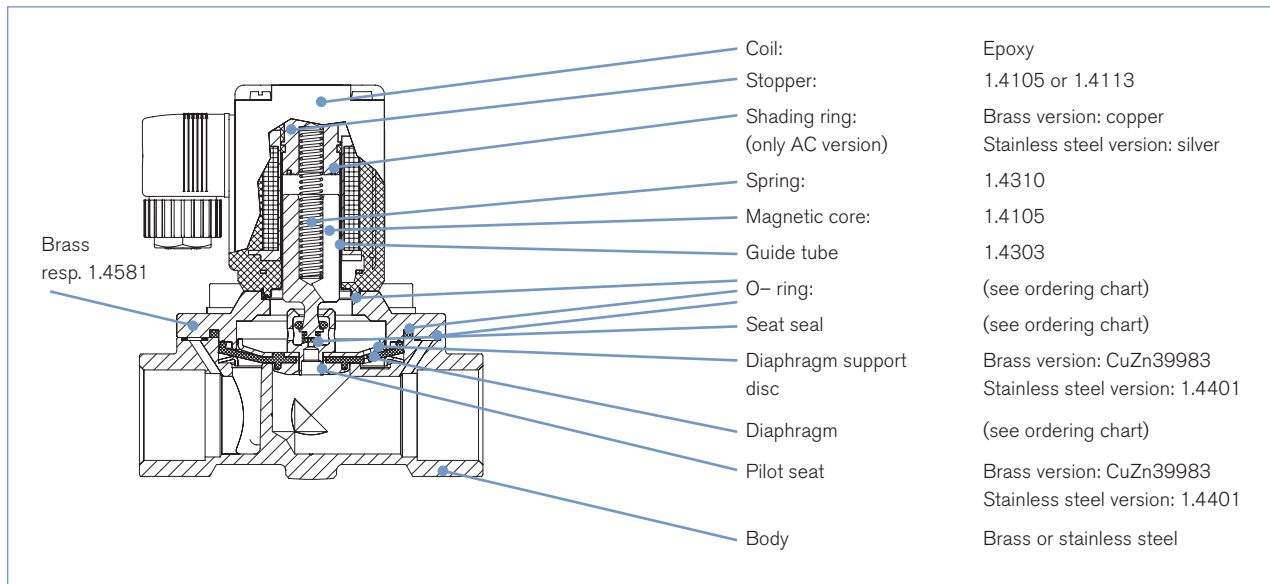
Threaded port version



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



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