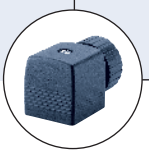
bürkert
FLUID CONTROL SYSTEMS

2/2–way Solenoid Valve for high pressures and temperatures



- Seat valve, direct–acting
- Pressure range up to 507 PSI
- Media temperature up to 482°F (250°C)
- Push–over solenoid system
- For gases and fluids
- Approvals:

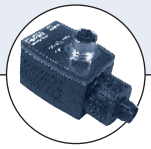
Type 0255 can be combined with…



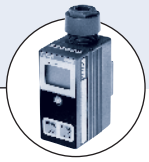
Type 2508
Cable plug



Type 1078
Timer unit



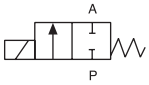
Type 2511
ASi cable plug



Type 8600
Dosing control

The direct–acting plunger solenoid valve Type 0255 is also suitable for high pressures and high temperatures.

Circuit function A



2/2–way valve, normally closed by spring force

Technical data	
Orifice	DN 2.0 – 6.0 mm
Body material	Brass with stainless steel seat 1.4305 or stainless steel 1.4581
Seal material	PTFE (others on request)
Media FKM PTFE	 Hot air, hot oils, oils with additives, per–solutions Water, steam, fuels, hydraulic materials, alcohol, organic solvents, waste gas
Media temperature PTFE on request	 –40°F to 356°F (–40°C to +180°C) Up to 482°F (+250°C)
Viscosity	Max. 21 cSt
Ambient temperature	131°F (+55°C) (482°F (+250°C) on request), please see ordering chart
Voltage tolerance	± 10%
Duty cycle	100% continuous rating
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

Flow rate C_V value water [GPM]	measured at 68°F (+20°C), 1 PSI pressure at valve inlet and free outlet (see ordering chart)
Pressure valves [PSI]	gauge pressures with respect to the prevailing atmosphere pressure (see ordering chart)
Response times [ms] Opening Closing	measured with water at valve outlet at 87 PSI and 68°F (+20°C) pressure build-up 0 to 90% pressure decay 100 to 10% (see ordering chart)

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Technical data

Orifice [mm]	Inrush	Hold		Response times				Weight [kg]
				Opening [ms]		Closing [ms]		
	AC [VA]	AC [VA/W]	DC [W]	AC	DC	AC	DC	
2.0 – 6.0	35 – 40	16/10	approx.12	10 – 20	20 – 80	20 – 30	20 – 30	0.6

Ordering chart for valves (other versions on request)

Circuit Function	Orifice [inch]	Flow Rate		Port Connection [NPT]	Pressure Range[2] ⚠ [PSI] For Liquids	Body Material	Seal Material	Approvals[3]	Voltage/ Frequency [V/Hz]	Item no.
		Water C_V-Value [GPM]	Air[1] QNn [SCFM]							
A	5/64	0.14	4.6	1/4	0 – 507	Stainless	PTFE	●	120/60	454 774
	1/8	0.29	9.5	1/4	0 – 145	Brass	PTFE	●	24/DC	452 431
					0 – 145	Brass	PTFE	▲	24/DC	457 930
					0 – 232	Brass	PTFE	▲	120/60	457 955
					0 – 145	Stainless	PTFE	▲	24/DC	452 435
					0 – 232	Stainless	PTFE	▲	120/60	452 886
				3/8	0 – 145	Brass	PTFE	–	24/DC	456 228
					0 – 232	Brass	PTFE	●	120/60	454 096
				1/2	0 – 232	Brass	PTFE	▲	120/60	454 867
	5/32	0.58	19.0	1/4	0 – 145	Brass	PTFE	●	24/60	450 503
					0 – 58	Brass	PTFE	●	24/DC	452 439
					0 – 145	Brass	PTFE	●	120/60	452 440
					0 – 58	Stainless	PTFE	▲	24/DC	457 972
					0 – 145	Stainless	PTFE	▲	120/60	452 894
				3/8	0 – 145	Brass	PTFE	●	120/60	454 121
					0 – 145	Brass	PTFE	▲	120/60	452 890
					0 – 145	Stainless	PTFE	●	120/60	453 527
					0 – 145	Stainless	PTFE	▲	120/60	454 365
	3/16	0.76	25.0	1/4	0 – 85	Brass	PTFE	●	120/60	452 448
				1/2	0 – 85	Stainless	PTFE	–	24/DC	454 514
					0 – 85	Stainless	PTFE	▲	120/60	456 215
	1/4	0.93	30.0	1/4	0 – 55	Brass	PTFE	●	24/60	452 455
					0 – 55	Brass	PTFE	▲	24/60	452 905
					0 – 14	Brass	PTFE	●	24/DC	452 454
					0 – 55	Brass	PTFE	●	120/60	452 456
					0 – 55	Brass	PTFE	▲	120/60	452 906
					0 – 55	Brass	PTFE	●	240/60	452 457
					0 – 55	Brass	PTFE	▲	240/60	455 100
					0 – 14	Stainless	PTFE	●	24/DC	452 458
					0 – 55	Stainless	PTFE	▲	120/60	452 909
					0 – 55	Stainless	PTFE	▲	240/60	455 101
				3/8	0 – 55	Brass	PTFE	▲	120/60	454 181
					0 – 55	Brass	PTFE	–	240/60	457 336
				1/2	0 – 55	Brass	PTFE	▲	120/60	454 813
					0 – 55	Stainless	PTFE	●	24/60	456 737
					0 – 14	Stainless	PTFE	–	24/DC	455 519
					0 – 55	Stainless	PTFE	●	120/60	453 526
					0 – 55	Stainless	PTFE	▲	120/60	454 147

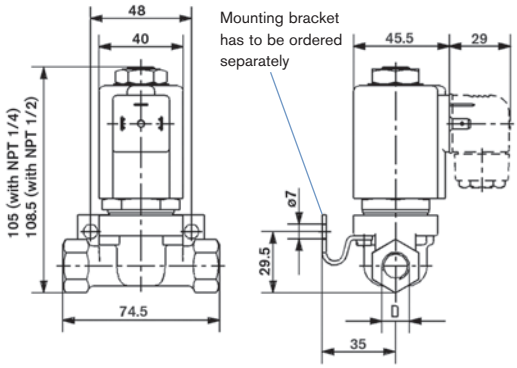
1) Measured with 85 PSI upstream pressure and a pressure drop of 14 PSI across the valve at 68°F
2) Also suitable for vacuum
3) CE standard on all valves:
● – UL recognized component / CSA approved / cable plug not included
▲ – UL listed (safety shutoff) / FM class 1 / DIV 2 groups ABCD / CSA approved / includes 2509 series conduit plug
⚠ Limited pressure range for liquid fluids (see chart on page 2)

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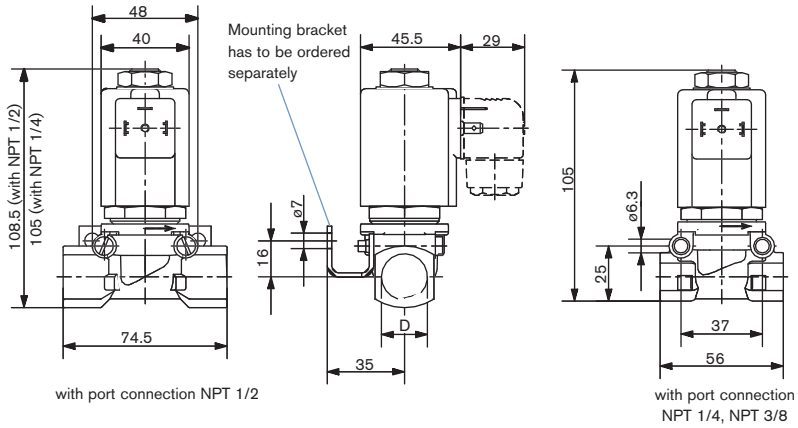
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Dimensions [mm]

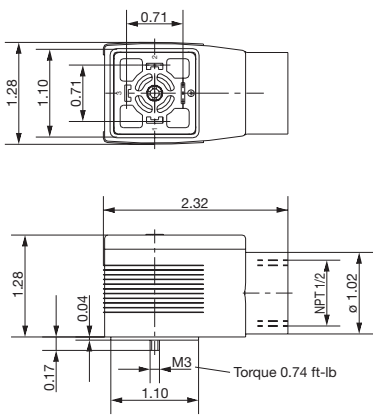
Stainless steel version



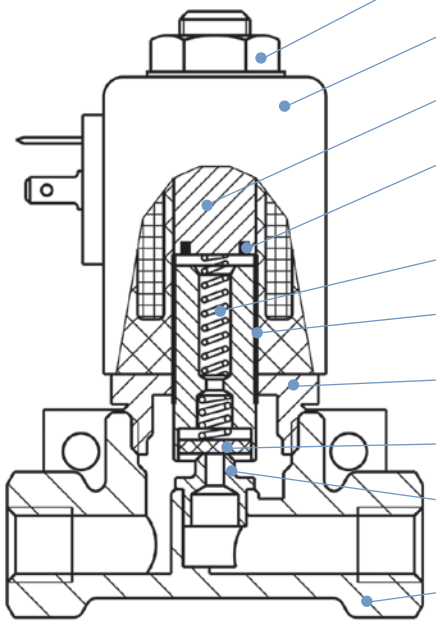
Brass version



Type 2509 Dimensions [mm]



Materials



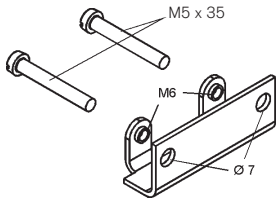
Locknut:	St - A2L		
Coil:	Epoxy		
Stopper:	1.4105		
Shading ring:	Copper	(MS version)	only AC
	Silver	(SS version)	only AC
Spring:	1.4310		
Guide tube:	1.4571		
Metallic Sealing:	1.4401		
Seal:	PTFE		
Valve Seat:	1.4305 or 1.4112		
Body:	Brass or stainless steel 1.4581		

Mounting set

- 2 M5 x 35 cheesehead screws
- 1 mounting bracket

Valve mounted using mounting kit
Refer to the dimensional drawings for the valve

37 mm separation between the M5 threaded holes
48 mm separation between the Ø7 bores



Item no. 151 287

(only for brass body versions)
Mounting set for stainless steel versions on request

To find your nearest Burkert facility, click on the orange box ⟶

In case of special application conditions, please consult for advice.
We reserve the right to make technical changes without notice.
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