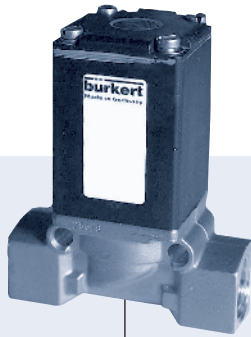
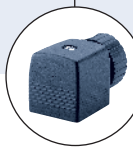


## 2/2-way Solenoid Valve



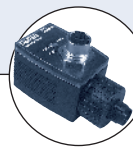
Type 0256 can be combined with...



**Type 2508**  
Cable plug








**Type 1078**  
Timer unit



**Type 2511**  
ASI cable plug



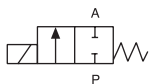
**Type 8600**  
Dosing control

- Seat valve, direct-acting
- Wide range of applications
- Port connection size up to NPT 1/2
- Brass or stainless steel valve body
- Approvals:     

This direct-acting plunger solenoid valve Type 0256 can be used in many ways. It is delivered with brass or stainless steel bodies for a wide range of orifices and connections.

Power consumption			
Orifice	Inrush	Hold	
[mm]	AC [VA]	AC [VA/W]	DC [W]
3.0-12.0	35-40	16/10	approx. 12

### Circuit function A



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

Technical data	
<b>Orifice</b>	5/64" – 7/16" (DN 2.0 – 12.0 mm)
<b>Body materials</b>	Brass (Body C with stainless steel seat 1.4112) Or stainless steel 1.4581
<b>Seal material</b>	FKM, EPDM, (steel on request)
<b>Media</b>	FKM EPDM All materials
<b>Media temperature</b>	FKM EDPM
<b>Ambient temperature</b>	Max. 131°F (+55°C)
<b>Viscosity</b>	Max. 21 cst
<b>Voltage tolerance</b>	±10%
<b>Duty cycle</b>	100% continuous rating
<b>Electrical connection</b>	Cable plug for Ø 7 mm cable (sold separately)
<b>Protection class</b>	IP 65 with cable plug
<b>Installation</b>	As required, preferably with actuator upright
<b>Flow rate</b>	measured at 68°F (+20°C), 1 PSI pressure at valve inlet and free outlet
<b>Pressure valves [PSI]</b>	gauge pressures with respect to the prevailing atmosphere pressure
<b>Response times [ms]</b>	measured with water at valve outlet at 87 PSI and 68°F (+20°C)
Opening	pressure build-up 0 to 90%
Closing	pressure decay 100 to 10%

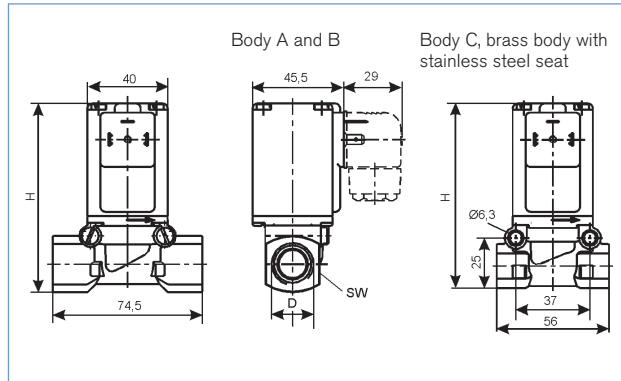
Solenoid valve specifications

Orifice DN [mm]	C <sub>v</sub> Value Water [gpm]	QNn Value Air [SCPM]	Pressure Range AC		DC Liquids and Gases [PSI]	Weight [kg]
			Liquids [PSI]	Gases [PSI]		
2	0.14	4.6	0 - 580.0	0 - 580.0	0 - 435.0	0.60
3	0.29	9.5	0 - 319.0	0 - 319.0	0 - 145.0	0.60
4	0.58	19.0	0 - 174.0	0 - 232.0	0 - 87.0	0.60
5	0.76	25.0	0 - 87.0	0 - 174.0	0 - 36.0	0.60
6	0.93	30.0	0 - 56.0	0 - 116.0	0 - 14.5	0.60
8	1.05	34.0	0 - 22.0	0 - 36.0	0 - 7.2	0.60
10	1.75	56.0	0 - 14.5	0 - 22.0	0 - 5.8	0.60
12	2.10	68.0	0 - 7.2	0 - 14.5	0 - 1.5	0.60

NOTE: Valves labeled with pressure range for liquids

Dimensions [mm]

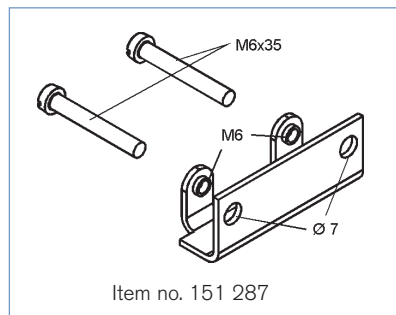
Body	Body material	Connection D	H	SW
A	Brass, stainless steel body without bore hole mounting	NPT 1/2	95.5	27
B	Brass body with bore hole mounting	NPT 1/4, NPT 3/8	93.0	22
B	Stainless steel body without bore hole mounting	NPT 1/4	93.0	22
C	Brass body with bore hole mounting	NPT 1/4, NPT 3/8	92.0	22



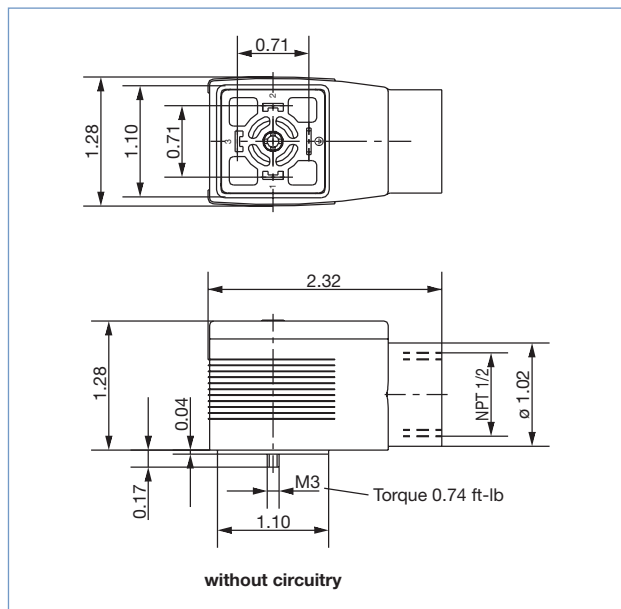
Mounting set

Mounting set

- 2 M6 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 M6 threaded holes 48 mm separation between the Ø7 bores



2509 Dimensions





\* Included on all UL listed valves

## Ordering chart for valves (other versions on request)

Valves A, B, C with brass body, DN 2.0 to 12.0 mm, with cable plug, without mounting bracket (see Accessories)

Body C with stainless steel seat 1.4112

Circuit function	Orifice DN [mm]	Flow Rate		Port connection [NPT]	Pressure range <sup>2)</sup> [PSI] 	Body material/style	Seal material	Approval <sup>3)</sup>	Voltage/frequency [V/Hz]	Mounting bracket	Item no.			
		Water C <sub>v</sub> valve [gpm]	Air <sup>1)</sup> Q <sub>Nn</sub> [SCFM]											
<b>A</b> 2/2-way valve NC 	2.0	.14	4.6	1/4	0 - 435	Brass/B	FKM	-	12/DC	N	453 471 Y			
					0 - 580	Stainless/B	FKM	UR/CSA	120/60	N	450 047 B			
					0 - 580	Stainless/B	FKM	FM/UL/CSA	120/60	N	US00735			
	3.0	.29	9.5	1/4	0 - 319	Brass/C	FKM	UR/CSA	120/60	N	450 048 L			
					0 - 319	Brass/C	FKM	FM/UL/CSA	120/60	N	452 814 P			
					0 - 87	Brass/C	FKM	-	24/DC	N	450 588 F			
					0 - 87	Brass/C	FKM	UR/CSA	24/DC	N	454 519 Z			
					0 - 87	Brass/C	FKM	FM/UL/CSA	24/DC	N	US03974			
					0 - 232	Brass/C	FKM	UR/CSA	120/60	N	450 050 J			
					0 - 232	Brass/C	FKM	FM/UL/CSA	120/60	Y	452 820 Z			
					0 - 87	Stainless/B	FKM	UR/CSA	24/DC	N	452 466 S			
					0 - 87	Stainless/B	FKM	FM/UL/CSA	24/DC	N	452 915 L			
					0 - 232	Stainless/B	FKM	UR/CSA	120/60	N	450 052 G			
					0 - 232	Stainless/B	FKM	FM/UL/CSA	120/60	N	452 918 X			
					3/8				0 - 87	Brass/C	FKM	-	24/DC	N
	0 - 232	Brass/C	FKM	UR/CSA					120/60	N	450 051 F			
	0 - 232	Brass/C	FKM	FM/UL/CSA					120/60	Y	451 923 K			
	0 - 174	Brass/C	FKM	-					24/60	N	450 883 X			
	0 - 174	Brass/C	FKM	UR/CSA					120/60	N	450 054 A			
	0 - 116	Stainless/B	EPDM	UR/CSA					120/60	N	455 295 S			
	5.0	.76	25.0	1/4	0 - 116	Stainless/B	EPDM	UR/CSA	240/60	N	455 294 Z			
					0 - 29	Brass/B	FKM	-	12/DC	N	450 618 L			
					0 - 116	Brass/C	FKM	UR/CSA	24/60	N	450 057 D			
					0 - 29	Brass/C	FKM	UR/CSA	24/DC	N	454 522 L			
					0 - 116	Brass/C	FKM	UR/CSA	120/60	N	450 058 N			
					0 - 116	Brass/C	FKM	FM/UL/CSA	120/60	N	454 407 S			
					0 - 116	Brass/B	FKM	UR/CSA	120/60	N	452 471 X			
					0 - 116	Brass/B	FKM	FM/UL/CSA	120/60	N	453 010 Z			
					0 - 116	Brass/B	FKM	UR/CSA	120/60	Y	US06479			
					0 - 116	Stainless/B	FKM	UR/CSA	24/60	N	458 125 S			
0 - 29					Stainless/B	FKM	UR/CSA	24/DC	N	452 481 J				
0 - 29					Stainless/B	FKM	FM/UL/CSA	24/DC	N	US02633				
0 - 116					Stainless/B	FKM	UR/CSA	120/60	N	450 061 H				
0 - 116					Stainless/B	FKM	FM/UL/CSA	120/60	N	452 933 N				
3/8								0 - 29	Brass/B	FKM	UR/CSA	24/DC	N	452 473 Z
								0 - 116	Brass/C	FKM	UR/CSA	120/60	N	450 059 P
								0 - 116	Brass/B	FKM	UR/CSA	120/60	N	450 766 Q

1) Measured with 85 upstream pressure and 14.5 PSI pressure drop across the valve at 68°F.


2) Also applies for technical vacuum.

3) UL listed for safety shutoff.

FM approved Class I, II, III Division 2 Groups A, B, C, D, F, G.

CSA approved for safety shutoff.



All valves carry CE approval.

 Limited pressure range for liquids (see chart on page 2)

## Ordering chart for valves (other versions on request)

Valves A, B, C with brass body, DN 2.0 to 12.0 mm, with cable plug, without mounting bracket (see Accessories)


Body C with stainless steel seat 1.4112

Circuit function	Orifice DN [mm]	Flow Rate		Port connection [NPT]	Pressure range <sup>2)</sup> [PSI] 	Body material/style	Seal material	Approval <sup>3)</sup>	Voltage/frequency [V/Hz]	Mounting bracket	Item no.							
		Water C <sub>v</sub> valve [gpm]	Air <sup>1)</sup> Q <sub>N</sub> [SCFM]															
<b>A</b> 2/2-way valve NC 	6.0	.93	30.0	3/8	0 - 116	Brass/B	FKM	FM/UL/CSA	120/60	Y	453 012 P							
					1/2	0 - 29	Stainless/A	EPDM	-	24/DC	N	453 327 X						
						0 - 116	Stainless/A	EPDM	UR/CSA	120/60	N	455 296 T						
						0 - 116	Stainless/A	EPDM	UR/CSA	240/60	N	455 018 X						
						0 - 116	Brass/A	FKM	UR/CSA	24/60	N	452 476 U						
						0 - 116	Brass/A	FKM	FM/UL/CSA	24/60	N	452 927 Q						
						0 - 29	Brass/A	FKM	UR/CSA	24/DC	N	450 055 B						
						0 - 29	Brass/A	FKM	FM/UL/CSA	24/DC	N	452 926 P						
				0 - 116		Brass/A	FKM	UR/CSA	120/60	N	450 056 C							
				8.0	1.05	34.0	1/2	0 - 36	Brass/A	FKM	FM/UL/CSA	120/60	N	452 937 J				
								0 - 7.2	Stainless/A	FKM	FM/UL/CSA	24/DC	N	456 477 Z				
								0 - 36	Stainless/A	FKM	UR/CSA	120/60	N	450 064 C				
								0 - 36	Stainless/A	FKM	FM/UL/CSA	120/60	N	452 941 W				
								0 - 36	Stainless/A	FKM	FM/UL/CSA	240/60	N	452 942 X				
								10	1.75	56.0	3/8	0 - 5.8	Brass/B	FKM	UR/CSA	24/DC	N	452 490 X
												0 - 22	Brass/B	FKM	UR/CSA	120/60	N	450 066 E
	0 - 22	Brass/B	FKM									FM/UL/CSA	120/60	N	452 945 S			
	0 - 22	Brass/B	FKM	UR/CSA	240/60	N	452 492 M											
	1/2	0 - 22	Brass/B	FKM	FM/UL/CSA	240/60	N				US01308							
		0 - 22	Brass/A	FKM	UR/CSA	120/60	N				450 065 D							
		0 - 22	Brass/A	FKM	FM/UL/CSA	120/60	Y				452 949 E							
		0 - 5.8	Stainless/A	FKM	UR/CSA	24/DC	N				452 496 R							
	12	2.10	68.0	1/2	0 - 5.8	Stainless/A	FKM	FM/UL/CSA	24/DC	N	455 102 Z							
					0 - 22	Stainless/A	FKM	UR/CSA	120/60	N	450 067 F							
					0 - 22	Stainless/A	FKM	FM/UL/CSA	120/60	N	455 054 T							
					0 - 1.4	Brass/A	FKM	-	12/DC	N	454 525 P							
					0 - 14.5	Brass/A	FKM	UR/CSA	120/60	N	452 499 U							
					0 - 14.5	Brass/A	FKM	FM/UL/CSA	120/60	N	452 957 W							
					0 - 1.4	Stainless/A	FKM	-	24/DC	N	451 974 W							
					0 - 14.5	Stainless/A	FKM	-	120/60	N	454 770 Q							
					0 - 14.5	Stainless/A	FKM	FM/UL/CSA	120/60	N	US01049							

1) Measured with 85 upstream pressure and 14.5 PSI pressure drop across the valve at 68°F.

2) Also applies for technical vacuum.

3) UL listed for safety shutoff. FM approved Class I, II, III Division 2 Groups A, B, C, D, F, G. CSA approved for safety shutoff. All valves carry CE approval.

 Limited pressure range for liquids (see chart on page 2)