Angle-Seat Solenoid Valve, 0 – 140 PSI

For Steam Applications

Type 6038



Design/Function

Type 6038 is a 2/2-way angle seat solenoid valve with direct acting switching mode. The plunger is coupled with the seat tube. By attracting the plunger, a bore is opened by this pre-stroke. This causes a pressure relief in the valve inside, so that the valve can be opened fully by the magnetic power. De-energized, the valve is held closed by a spring force. The medium pressure on top of the plunger supports the closing force of the spring.



Optimized point-to-point connection between **Burkert-Sensors and Actuators**



Ability to communicate with conventional controllers or Fieldbus connections

Burkert Contromatic USA 2602 McGaw Avenue Irvine, CA 92614 Tel. 949.223.3100 Fax 949.223.3198 www.burkert-usa.com

Bürkert Contromatic Inc. 760 Pacific Road, Unit 3 Oakville, Ontario, Canada L6L 6M5 Tel. 905.847.5566 Fax 905.847.9006

Advantages/Benefits

Ideal steam, pressure **Control System Module**

Applications

Fluids

Steam

Applications

- General purpose applications
- High temperature applications in chemical industry
- Food industry
- Cooling circuitry
- Heat exchangers



burkert

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Overpressure to

0% to 90%

100% to 10%

atmospheric pressure

pressure at outlet port

As required, but preferably with solenoid system upright

For Steam Applications

Technical Data Type 6038

Circuit Function

- A 2/2-way, normally closed, direct acting switching mode, pressure relieved



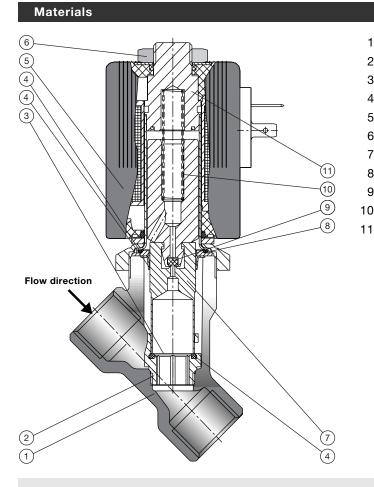
Operating Data (Valve)

0 - 140 psi Pressure range NPT 3/8" - NPT 1" Port connection Fluids Steam Medium temperature 32°F to 356°F (0°C to 180°C) Max. ambient temperature 131°F (55°C) Max. viscosity 21 cSt Flow rate (Cv value water) Measured at 68°F, 14 psi pressure at valve inlet port and open outlet port

Pressure rate [psi]

Response times [ms]

Opening pressure raise Closing pressure drop Installation



Operating Data (Actuator)

Operating voltages Voltages tolerance Power consumption Inrush Hold Duty cycle Cycling rate **Electrical connection** Cable plugs Standard delivery Measured at 68°F, 85 psi

EaseOn technology Rating

AC 24, 120, 240 V/60 Hz ±10%

106 VA 38 VA / 18 W 100% continuously rated 100/min Spade connectors sidewards per DIN 43650, Form A

With Type 2508, 0 - 250 V (others, please see accessories) Type 2512 NEMA 4

Valve body: 1

- 2 Seat ring:
- 3 Seat:
- 4 Seat seal:
- 5 Coil:
- 6 Locknut:
- 7 Piston:
- 8 O-rings:
- 9 Plunger seal:
- 10 Spring: Stopper:

Bronze Brass 316 Stainless Steel PTFE Epoxy Surface Zn5glcA 420 Stainless Steel FPM FPM 301 Stainless Steel 420 Stainless Steel

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Specifications - Ordering Chart (Other Versions on Request)

With Standard Cable Plug Type 2508

Seal Material PTFE, Temperature Range 32°F to 356°F, Pressure Range 0 to 140 psi

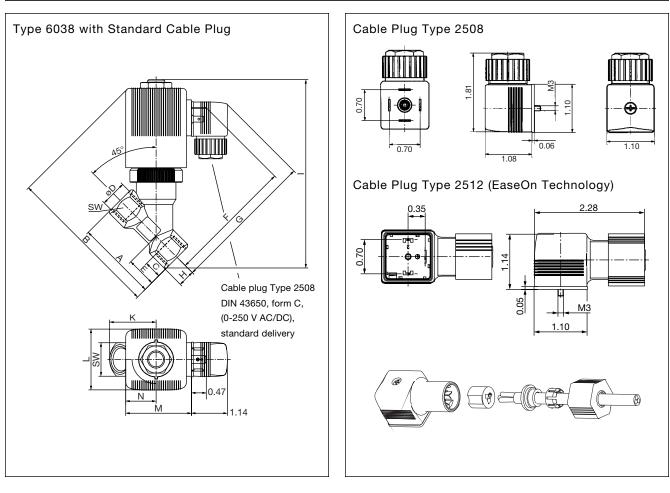
Circuit	Orifice	Port	C _v	Response Times		Weight	Item No.				
Function	DN	Connection		Opening	Closing		Voltage				
	[inch]	[inch]		[ms]	[ms]	[lbs.]	24 V / 60 Hz	120 V / 60 Hz	240 V / 60 Hz		
A	7/16	NPT 3/8	2.6	20	60	1.98	459 059 L	459 060 R	459 061 E		
	7/16	NPT 1/2	2.6	20	60	1.98	459 062 F	459 063 G	459 064 H		
	9/16	NPT 1/2	3.3	30	50	2.42	459 071 G	459 072 H	459 073 A		
	9/16	NPT 3/4	3.3	30	50	2.42	459 077 E	459 078 P	459 079 Q		
	9/16	NPT 1	3.3	30	50	2.86	459 083 V	459 084 W	459 085 X		

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Туре 6038

For Steam Applications

Dimensions [inch]



		Measurements												
	øD	С	A	В	E	F	G	н	1	К	L	М	N	SW
Orifice	Port	Thread												
DN	Connection	Depth												
[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]	[inch]
7/16	NPT 3/8	0.40	2.55	4.90	0.94	4.01	4.56	0.53	5.98	1.47	1.92	2.08	0.96	1.06
7/16	NPT 1/2	0.53	2.55	4.90	0.94	4.01	4.56	0.53	5.98	1.47	1.92	2.08	0.96	1.06
9/16	NPT 1/2	0.53	2.95	5.21	1.06	4.21	4.78	0.63	6.41	1.77	1.92	2.08	0.96	1.25
9/16	NPT 3/4	0.55	2.95	5.21	1.06	4.21	4.78	0.63	6.41	1.77	1.92	2.08	0.96	1.25
9/16	NPT 1	0.66	3.74	5.76	1.22	4.60	5.15	0.80	7.20	2.36	1.92	2.08	0.96	1.61

Ordering Chart for Accessories

A wide selection of additional cable plugs are available (see special data sheets Type 2506 and 2510)