2/2-Way; G ³/₈" - 1"; PN 0 - 10 bar



Advantages/Benefits



- ▶ Zero pressure type
- Actuation system pressure relieved
- ► Long service life
- ▶ Compact design
- ▶ Ideal steam, pressure and temperature Control System Module (Easy System)

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 hold closed by a spring force. The medium pressure on top of the plunger supports the closing force of the spring.



Optimised point-to-point connection between Burkert-Sensors and Actuators



Ability of communication with conventional controlling or Fieldbus connections

Applications

Fluids

Steam

Applications

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



Technical Data Type 6038

Circuit function

Symbol

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



Operating Data (Valve)

Pressure range Port connection

Fluids

Medium temperature Max. ambient temperature

Max. viscosity

Flow rate (Kv value water) [m³/h]

Pressure rate [bar]

Response times [ms]

Opening pressure raise Closing pressure drop Installation

0 - 10 bar G 3/8" - G 1" Steam

0° up to +180°C

+55° C 21 mm²/s

Measured at +20°C, 1 bar pressure at valve inlet port and open outlet port Overpressure to atmospheric pressure

Measured at +20°C, 6 bar pressure at outlet port 0% to 90%

100% to 10% as required, but preferably with solenoid system upright

Operating Data (Actuator)

Operating voltages Voltages tolerance

Power consumption

Inrush Hold Duty cycle Cycling rate

Electr. connection

Cable plugs Standard delivery

EaseOn technology Rating

AC 24, 110, 230 V/50-60 Hz

±10 %

106 VA 38 VA / 18 W

100% continuously rated

30/min

Tag connectors sidewards

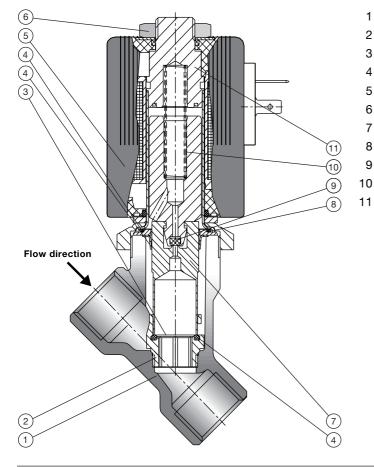
acc. to DIN 43650, Form A

With type 2508, 0 - 250 V (others, please see accessories)

Type 2512

IP65

Materials



Valve body: Gun Metal Seat ring: **Brass** Seat: SS (1.4571) Seat seal: PTFE

Coil: **Epoxy**

Locknut: Surface Zn5glcA

Piston: SS (1.4021) FPM O-rings: **FPM** Plunger seal: Spring: SS (1.4310)

Stopper: SS (1.4105)

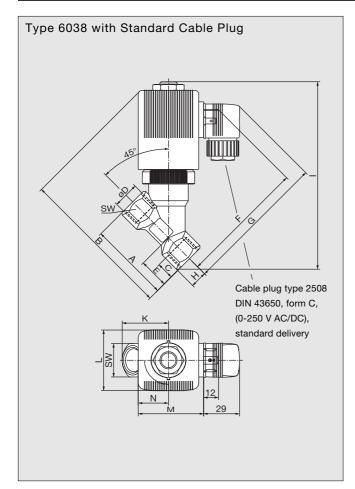
Specifications - Ordering Chart (Other Versions on Request)

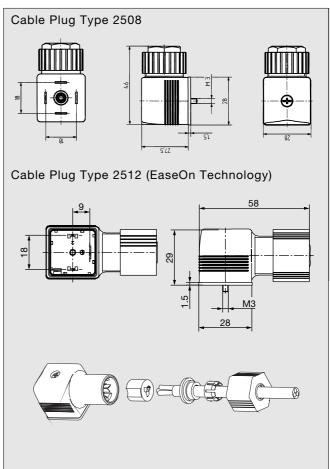
With Standard Cable Plug Type 2508

Seal Material PTFE, Temperature Range 0° up to +180°C, Pressure Range 0 up to 10 bar

Circuit	Orifice	Port	Kv-Value	Response Times		Weight	Item-No.				
Function	DN	Connection		Opening Closing			Voltage				
	[mm]	[inch]	[m³/h]	[ms]	[ms]	[kg]	24 V / 50-60 Hz	110 V / 50-60 Hz	230 V / 50-60 Hz		
A	12	G 3/8	2.2	20	60	0.90	140 427 W	140 428 F	140 429 G		
	12	G 1/2	2.2	20	60	0.90	140 430 D	140 431 S	140 432 T		
	16	G 1/2	2.8	30	50	1.10	140 439 A	140 440 P	140 441 C		
	16	G 3/4	2.8	30	50	1.10	140 445 G	140 446 H	140 447 A		
	16	G 1	2.8	30	50	1.30	140 451 E	140 452 F	140 453 G		

Dimensions [mm]





		Measurements												
	ø D	С	Α	В	E	F	G	н	1	K	L	М	N	sw
Orifice	Port	Thread												
DN	Conn.	Depth												
[mm]	[inch]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
12.0	G 3/8	12.0	65.0	124.5	24.0	102.0	116.0	13.5	152.0	37.5	49.0	53.0	24.5	27.0
12.0	G 1/2	14.0	65.0	124.5	24.0	102.0	116.0	13.5	152.0	37.5	49.0	53.0	24.5	27.0
16.0	G 1/2	14.0	75.0	132.5	27.0	107.0	121.5	16.0	163.0	45.0	49.0	53.0	24.5	32.0
16.0	G 3/4	16.0	75.0	132.5	27.0	107.0	121.5	16.0	163.0	45.0	49.0	53.0	24.5	32.0
16.0	G 1	18.0	95.0	146.5	31.0	117.0	131.0	20.5	183.0	60.0	49.0	53.0	24.5	41.0

Ordering Chart for Accessories

A wide selection of further cable plugs is available (see special data sheets type 2506 and 2510)