

2/2-Way; Sub-Base Connection; 0-300 PSI



### Advantages/Benefits

- ▶ Coil can be changed easily with valve in place and without de-pressurizing the system
- ▶ Coil can be locked in 4x 90° positions or move freely between, as required
- ▶ High quality FPM (Viton) seal material, standard
- ▶ Type 2506 cable plug offers a wide range of options
- ▶ Compact design
- ▶ Double O-ring seal protects coil and valve assembly from moisture and corrosion for longer life
- ▶  Approval
- ▶  Approval

### Design/Function

The valves are based on a modular design consisting of three basic elements: the pressure or process containing valve assembly, a push-over coil and a standard cable plug.

The valve assembly contains: the body, guide tube, plunger, seals and springs. This assembly totally isolates the process from the coil. Once installed, the coil is also sealed at both ends from exposure to the environment.

The valves are available in brass and have high-quality FPM (Viton) seals as standard.

To simplify ordering, different combinations of orifice size, coil voltage and a standard cable plug can be ordered with one Item Number.

Options for the Type 2506 cable plug are available to satisfy special electrical requirements.

- The modular concept provides flexibility to meet application requirements.
- This valve is interchangeable with the Type 201.

### Applications

#### Fluids

**Brass Version:** Neutral gases and liquids such as compressed air, natural gas, water, hydraulic fluid and fuel oil.

#### Applications

- Pneumatic control
- Shut-off, dosing, filling and ventilating
- Small-scale instruments for R&D and laboratory measurements laboratory measurements
- Welding technology
- Suitable for technical vacuum

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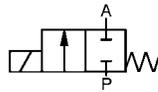
**burkert**  
*Easy* Fluid Control Solutions

### Technical Data Type 6011

#### Circuit Function - A

A - 2/2-way valve,  
normally closed

#### Symbol



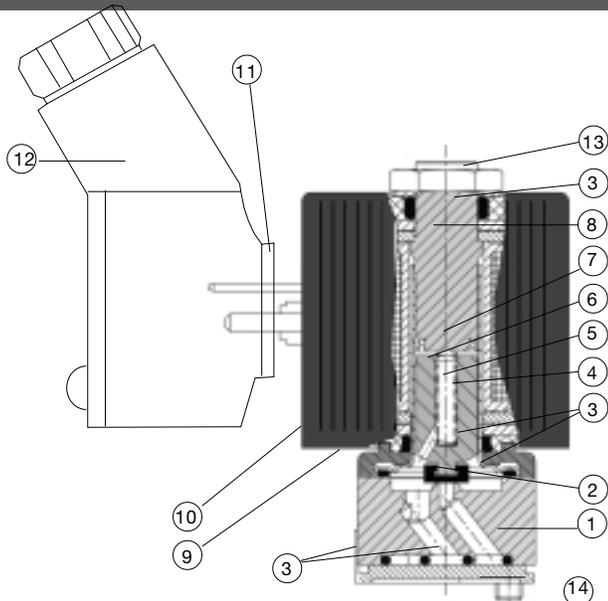
#### Operating Data (Valve)

Pressure Range	0-300 PSI (see specifications)
Port Connection	Sub-base connection
Orifice	3/64" - 3/32"
Fluid	<b>Brass Version:</b> Neutral gases and liquids such as compressed air, natural gas, water, hydraulic fluid, and fuel oil.
Fluid Temperature	14°F to 212°F
Max. Ambient Temperature	130°F
Max. viscosity	21 cSt
Response times	
opening:	Approx. 8ms
closing:	10-16 ms
Installation	As required, but preferably with solenoid system upright

#### Operating Data (Actuator)

Operating Voltages	AC 24, 120, 240 V/60 Hz, 24 VDC						
Voltages Tolerance	±10%						
Power Consumption	<table border="1"> <tr> <th>AC inrush</th> <th>AC hold</th> <th>DC</th> </tr> <tr> <td>9 VA</td> <td>6 VA/4 W</td> <td>4 W</td> </tr> </table>	AC inrush	AC hold	DC	9 VA	6 VA/4 W	4 W
AC inrush	AC hold	DC					
9 VA	6 VA/4 W	4 W					
Duty Cycle	100% continuously rated						
Duty Cycle for Multiple Manifolds	60% of a 30 minute period or less (i.e. 30 min cycle = 18min ON + 12min OFF) Optional 2W version available for high duty cycles.						
Cycling Rate	up to 1000 c.p.m.						
Protection class with cable plug	NEMA 4 (IP 65)						
Electrical Connection	Delivery standard: Cable plug DIN 43 650 C, 0-250 V (See accessories for options)						
Approvals	U.L. Recognized						

#### Materials



1	Valve body:	Brass (303 Stainless Steel on request)
2	Plunger-seal:	FPM (Viton)
3	O-rings:	FPM (Viton)
4	Armature guide tube:	305 Stainless Steel
5	Plunger:	430F Stainless Steel
6	Spring:	301 Stainless Steel
7	Shading ring:	Copper
8	Stopper:	430F Stainless Steel
9	Flange:	Cadmium Plated
10	Coil:	PA (Polyamide)
11	Flat seal:	NBR
12	Cable plug:	PA (Polyamide)
13	Locknut:	Zinc Plated
14	Mounting screw	DIN 84-4.8 A2L

### Specifications - Ordering Chart

#### Brass Body, FPM (Viton) Seal

(with standard-cable plug 0-250 V AC/DC)

Circuit Function	Orifice [inch]	C <sub>v</sub> Rating	SCFM Air <sup>1)</sup>	Pressure Range <sup>2)</sup> [PSI]		Port Connection [inch]	Voltage/Frequency [V/Hz]	Weight [lbs.]	Item No. (Stainless Steel Body)	Item No. (Brass Body)
				AC	DC					
A	3/64	0.052	1.69	0-300	0-170	Sub-base	24VDC	.2	on request	456 792 V
				0-300	0-170		24/60			456 793 W
				0-300	0-170		120/60			456 794 X
				0-300	0-170		240/60			456 795 Y
	1/16	0.07	2.29	0-170	0-85	Sub-base	24VDC	.2	on request	456 796 Z
				0-170	0-85		24/60			456 797 S
				0-170	0-85		120/60			456 798 B
				0-170	0-85		240/60			456 799 C
	5/64	0.13	4.24	0-115	0-65	Sub-base	24VDC	.2	on request	456 800 A
				0-115	0-65		24/60			456 801 X
				0-115	0-65		120/60			456 802 Y
				0-115	0-65		240/60			456 803 Z
	3/32	0.15	4.94	0-85	0-42	Sub-base	24VDC	.2	on request	456 804 S
				0-85	0-42		24/60			456 805 T
				0-85	0-42		120/60			456 806 U
				0-85	0-42		240/60			456 807 V

<sup>1)</sup> Measured with 85 PSI upstream pressure and 15 PSI pressure drop across the valve at 68°F.  
<sup>2)</sup> All pressures quoted are gauge pressures.

### Dimensions [inch (mm)]

