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 pushover 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

burkert Easth Fluid Control Solutions

Burkert Contromatic USA 2602 McGaw Avenue

2602 McGaw Avenue Irvine, CA 92614 Tel. 949.223.3100 Fax 949.223.3198 www.burkert-usa.com Burkert Contromatic Inc. 760 Pacific Road, Unit 3

Oakville, Ontario, Canada L6L 6M5 Tel. 905.847.5566

Fax 905.847.9006

Technical Data Type 6011

Circuit Function - A

Symbol

A - 2/2-way valve, normally closed

Pressure Range



Operating Dat	ta (Valve)
---------------	------------

0-300 PSI

(see specifications)

Port Connection Sub-base connection

Orifice 3/64" - 3/32"

Fluid **Brass Version**: 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)

AC 24, 120, 240 V/60 Hz, **Operating Voltages**

24 VDC

Voltages Tolerance ±10%

Power Consumption AC inrush | AC hold DC

> 9 VA 6 VA/4 W 14 W

Duty Cycle 100% continuously rated

Duty Cycle for 60% of a 30 minute period

Multiple Manifolds 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

2

NEMA 4 (IP 65)

Electrical Connection Delivery standard:

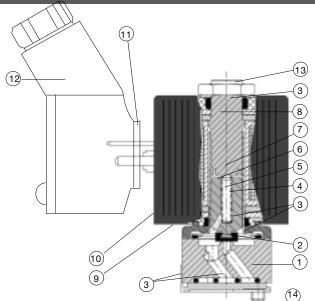
Cable plug DIN 43 650 C,

0-250 V (See accessories

for options)

Approvals U.L. Recognized

Materials



Valve body: **Brass**

(303 Stainless Steel on

request)

Plunger-seal: FPM (Viton) 3

O-rings: FPM (Viton)

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 Mounting screw DIN 84-4.8 A2L

Specifications - Ordering Chart

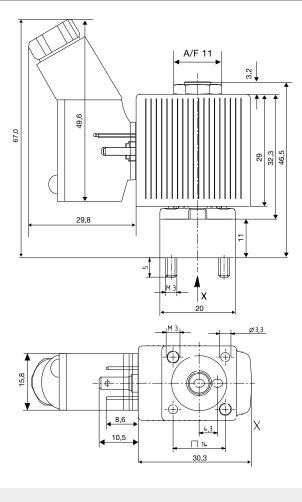
Brass Body, FPM (Viton) Seal

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

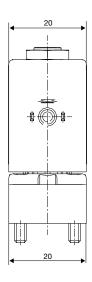
Circuit	Orifice	C _v Rating	SCFM	Pressur	е	Port	Voltage/	Weight	Item No.	Item No.
Function			Air1)	Range ²⁾		Connection	Frequency		(Stainless	(Brass Body)
	[inch]			[PSI]		[inch]	[V/Hz]	[lbs.]	Steel Body)	
				AC	DC					
Α	3/64	0.052	1.69	0-300	0-170	Sub-base	24VDC	.2	on request	456 792 V
				0-300	0-170		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

 $^{^{\}rm 1)}$ Measured with 85 PSI upstream pressure and 15 PSI pressure drop across the valve at 68°F. $^{\rm 2)}$ All pressures quoted are gauge pressures.

Dimensions [inch (mm)]

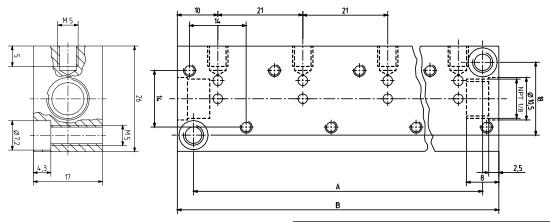


View without cable plug



Dimensions Accessories [(in (mm)]

Manifolds



Manifold Mounting

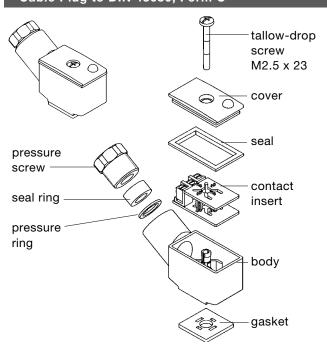
The manifolds for 1 to 8 valves have a common pressure inlet and individual outlet for each valve. The Type 6011 may also be mounted together with the Type 6012 valves (circuit function C, de-energized, outlet A exhausted) on the same manifold. The electrical connection can be either to the right or left of the manifold.

Manifolds may be coupled together using special push-fit O-ring connection nipples for linking the pressure inlets P. Manifolds joined together in this way should be securely mounted.

Ordering Chart for Manifolds/Accessories

Device/Accessory	Description			Item-No.
Single Manifold	Aluminium			613 984 K
Multiple Manifold	Hole Overall			
(Aluminium)	Spacing A	Length B		
2 valves	1.30	1.61		006 113 M
3 valves	2.13	2.44		613 838 Y
4 valves	3.00	3.27		006 114 N
5 valves	3.78	3.98		613 839 Z
6 valves	4.61	4.92		613 840 E
7 valves	5.44	5.75		613 841 T
8 valves	6.26	6.58		613 842 U
Connecting Nipple	with O-rings			005 040 A

Cable Plug to DIN 43650, Form C



Ordering Chart for Accessories

Device/	Description	Item No.
Accessory		
Cable-	Standard cable plug, 0-250 V AC/DC	008 353 P
plugs ¹⁾	(standard-delivery) ¹⁾	
Type 2506	with LED, 12-24 V AC/DC	008 402 A
	with LED, 100-120 V AC/DC	008 403 B
	with LED, 200-240 V AC/DC	008 404 C
	with LED + varistor, 12-24 V AC/DC	008 408 Q
	with LED + varistor, 100-120 V AC/DC	008 409 R
	with LED + varistor, 200-240 V AC/DC	008 410 D
	(optional wirings and connection speci-	
	fications see datasheet Type 2506)	

¹⁾ The standard cable plug (0-250 V AC/DC), Order-No. 008 353 P is part of the standard delivery.
Order optional cable plugs using separate Item Number as shown.

Consult Type 2506 datasheet for the complete selection of the available plug configurations.