Compact Solenoid Valve - General Purpose Threaded Port 1/8" NPT - 1/4" NPT

Type 6013

2/2-Way; 1/8" NPT - 1/4" NPT; 0-140 PSI



Advantages/Benefits

- Coil can easily be changed with valve in place
- Coil is lockable in 4 x 90° positions or freely movable in between, as required
- Medium is only in contact with the valve internals and body
- High-quality seal material FPM (Viton) as standard
- High temperature option

Design/Function

The Type 6013 valves are based on a modular concept comprising of three basic elements: Valve body, push-over coil and standard cable plug. The valve assembly consists of a body to which the armature guide tube containing the plunger, seals and springs is attached.

The coil is pushed over the guide tube and thus isolated from the medium. The medium is only in contact with the valve internals and body.

A wide selection of port and orifice sizes is offered. The valve body material is brass and stainless steel. All valves have high quality FPM (Viton) seals as standard.

Burkert Contromatic USA

2602 McGaw Avenue Irvine, CA 92614 Tel. 949.223.3100 Fax 949.223.3198 www.burkert-usa.com To simplify ordering, a wide selection of standard combinations of valve body, push over coil and standard cable plug can be ordered with one item number.

Cable plug options of the Type 2508 are available to suit special electrical application requirements.

- The modular concept provides flexibility to meet application requirements.
- The valves are interchangeable with the Type 211.

Burkert Contromatic Inc.

760 Pacific Road, Unit 3 Oakville, Ontario, Canada L6L 6M5 Tel. 905.847.5566 Fax 905.847.9006 www.burkert.ca

Applications

Fluids

Brass version: Neutral gases and liquids, e.g. compressed air, natural gas, water, hydraulic oil, petrol. Stainless steel version: Difficult and slightly aggressive media High temperature version:

Steam

Suitable for technical vacuum

Applications

- Pneumatic control
- Shut-off, dosing, filling and venting
- Small-scale instruments, laboratory and measuring technology
- Welding technology



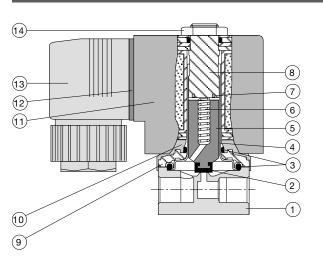
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Technical Data Type 6013

Circuit Function	Symbol				
A – 2/2-way valve, normally closed					
Operating Data (Valve	e)	Operating Data (Actuator)			
Pressure range	0-140 PSI (see specifications)	Operating voltages	AC 24, 110, 230 V/50 Hz, 24 V/DC		
Port connection	Threaded port 1/8" - 1/4" NPT 5/64" - 1/4" Neutral gases and liquids, e.g. compressed air, town gas, natural gas, water, hydraulic oil, petrol. Stainless steel version for difficult and slightly aggressive media. High temperature version for steam. Suitable for technical vacuum.	Voltage tolerance	±10%		
Orifice Fluid		Power consumption	See ordering chart		
Fiuld		Duty cycle Duty cycle for multiple manifolds	100% continuously rated 60% periodic duty (30 min) or use 5W-version (on request)		
		Cycling rate	Up to 1000 c.p.m.		
		Rating with cable plug	IP 65		
Medium temperature FPM PTFE / Graphite	14°F up to 212°F 32°F up to 356°F	Electrical connection	Delivery standard: Cable plug DIN 43 650 A, 0-250 V. (other versions see accessories)		
Max. ambient temperature	130°F				
Max. viscosity	21 cSt				
Response times Opening Closing	AC, DC 20 ms AC, DC 30 ms				
Installation	As required, but preferably with solenoid system upright				

Materials



- 1 Valve body:
- 2 Plunger-seal:
- 3 O-rings:
- 4 Plunger guide tube:
- 5 Plunger:
- 6 Spring:
- 7 Shading ring:
- 8 Stopper:
- 9 Flange:
- 10 Bonnet:
- 11 Coil:
- 12 Flat seal:
- 13 Cable plug:14 Locknut:
- SS 303 (1/8" NPT) SS 316 (1/4" NPT) FPM (Viton) FPM (Viton) 308 Stainless steel 430F Stainless steel 301 Stainless steel Copper (brass version) Silver (Stainless steel version) 430F Stainless Steel Cadmium plated steel Durethan BKV30H PA (Polyamide) NBR PA (Polyamide) Zinc plated steel

Brass,

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Specifications - Ordering Chart (Other Versions on Request)

Standard	lversion					(with standar	d-cable plug 0-	-250 V AC/DC
Circuit	Orifice	Port	C _v	Power	Pressure	Voltage/	Item-No.	Item-No.
function		connection		consumption	range ²⁾	frequency	Brass body	SS body
				(coil)			FPM seal	• FPM seal
	[inch]	[NPT]		[W]	[PSI]	[V/Hz]		
A	5/64	1/8	0.14	8	0 – 140	24/DC	456 307 F	457 302 B
					0 - 140	24/60	456 308 Q	457 303 C
					0 - 140	120/60	456 309 R	457 304 D
					0 - 140	240/60	456 310 D	457 305 E
A	7/64	1/8	0.19	8	0 - 87	24/DC	456 311 S	-
					0 - 87	24/60	456 312 T	-
					0 - 87	120/60	456 313 U	-
					0 - 87	240/60	456 314 V	-
A	1/8	1/8	0.27	8	0 - 87	24/DC	456 315 W	456 331 W
					0 - 140	24/60	456 316 X	456 332 X
					0 - 140	120/60	456 317 Y	456 333 Y
					0 - 140	240/60	456 318 H	456 334 Z
A	1/8	1/4	0.27	8	0 - 87	24/DC	456 319 A	456 526 J
					0 - 140	24/60	456 320 F	456 527 K
					0 - 140	120/60	456 321 U	456 528 U
					0 - 140	240/60	456 322 V	456 529 V
Α	5/32	1/4	0.35	8	0 - 30	24/DC	456 323 W	456 494 K
					0 - 60	24/60	456 324 X	456 495 L
					0 - 60	120/60	456 325 Y	456 496 M
					0 - 60	240/60	456 326 Z	456 497 N
Α	1/4	3/8	0.64	10	0 - 15	24/DC	456 848 D	-
					0 - 23	24/60	456 849 E	-
					0 - 23	120/60	456 850 B	-
					0 - 23	240/60	456 851 Y	-

High temperature version (up to 357°F); PTFE/Graphite sealing (with standard-cable plug 0-250 V AC/DC)

Circuit	Orifice	Port	C _v	Materials	Power	Pressure	Voltage/	Item-No.
function		connection			consumption	range ²⁾	frequency	• PTFE/Graph.
					(coil)			seal
	[inch]	[NPT]			[W]	[PSI]	[V/Hz]	
A	5/64	1/4	0.14	Brass body SS seat	8	0 - 170 0 - 355 0 - 355 0 - 355	24/DC 24/60 120/60 240/60	457 376 C 457 377 D 457 378 N 457 379 P
A	1/8	1/4	0.27	Brass body SS seat	10	0 - 115 0 - 200 0 - 200 0 - 200	24/DC 24/60 120/60 240/60	457 380 O 457 381 S 457 382 T 457 383 U

 $^{1)}$ Measured with 87 PSI upstream pressure and 14.5 PSI pressure drop across the valve at 68°F. $^{2)}$ All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Options on request:

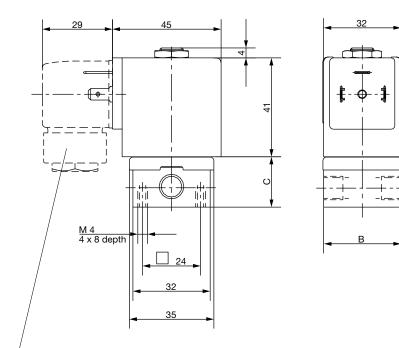
- Rc and NPT threads
- Other voltages and 60 Hz
- EEx, UL and CSA approvals
- Sub-base
- EPDM seals for -22°F up to 248°F

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Dimensions [mm]

Threaded port version

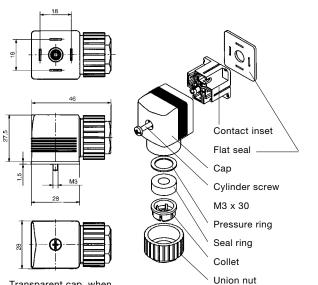


Cable plug DIN 43650, form A, (0-250 V AC/DC) delivery standard.

Variable dimensions [mm]

	А	В	С
Threaded port G	1/8	32	20.8
Threaded port G	1/4	46	26.8
Threaded port G	3/8	50	39.8

Dimensions Accessories [mm]



Transparent cap, when wired with LED.

Ordering Chart for Accessories

Device/ Accessory	Features	Item-No.
Cable plugs ¹⁾	Standard cable plug, 0-250 V AC/DC	008 376 N
Туре 2508	(standard-delivery) ¹⁾	
	with LED, 12-24 V AC/DC	008 360 S
	with LED, 100-120 V AC/DC	008 361 P
	with LED + varistor, 12-24 V AC/DC	008 367 M
	with LED + varistor, 100-120 V AC/DC	008 368 W
	with LED + varistor, 200-240 V AC/DC	008 369 X
	(optional wirings and connection speci-	
	fications see data sheet Type 2508)	

¹⁾ The standard cable plug (0-250 V AC/DC), Order-No. 008 376 N is part of the standard delivery. Ordering of optional cable plugs with separate item number.

A wide selection of further cable plugs is available (see datasheet Type 2508)

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In case of special requirements please consult for advice.