Sub-base Connection

2/2-Way; sub-base connection; DN 1,2-2,4; 0-21 bar



Advantages/Benefits

- Coil can be changed easily with valve in place
- Coil can be locked in 4x 90° positions or move freely between, as required
- Medium is only in contact with the valve internals and body
- High-quality seal material FPM (Viton) standard
- Wide range of cable plug options Type 2506
- Compact design

Design/Function

The valves are based on a modular concept comprising three basic elements; Valve assembly, pushover 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 pipe and orifice sizes is offered. Valves are available in brass. All valves have high-quality viton (FPM) seals as standard. To simplify ordering, a wide selection of standard combinations of valve body, push-over coil and standard cable plug can be ordered with one order number.

Cable plug options of Type 2506 are available to suit special electrical application requirements.

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

Applications

Fluids

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

Suitable for technical vacuum

Applications

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



Type 6011

Sub-base Connection

Technical Data Type 6011

Circuit function

Symbol

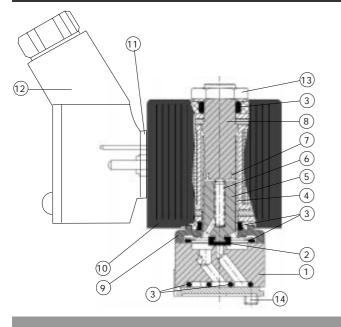
A 2/2-way valve, normally closed



with solenoid system upright

Operating Data (Valve)		Operating Data (Actuator)				
Pressure range	0-21 bar (see specifications)	Operating voltages	AC 24, 110, 230 V/50 Hz, DC 12, 24 V/=			
Port connection	Sub-base connection	Voltages tolerance	±10 %			
Orifice	DN 1.2 - 2.4 mm					
Fluid	Neutral gases and liquids, e.g. compressed air, town gas, natural gas, water,	Power consumption	AC inrushAC holdDC9 VA6 VA/4 W4 W			
	hydraulic oil, petrol. Stainless steel version: Difficult and slightly aggressive media.	Duty cycle Duty cycle for multiple manifolds	100% continuously rated 60% for manifold mounting (30 min) or use 2W-version (on request)			
	Suitable for techn. vacuum.	Cycling rate	up to 1000 c.p.m.			
Medium temperature Max. ambient temperature	–10 to +100 °C +55 °C	Protection class with cable plug	IP 65			
Max. viscosity	21 mm²/s	Electr. connection	Delivery standard: Cable plug DIN 43650 C,			
Response times opening closing	5-18 ms approx. 8 ms		0-250 V (Other versions see accessories)			
Installation	as required, but preferably					

Materials



1 Valve body

- 2 Plunger-seal:
- 3 O-rings:
- 4 Armature guide tube:
- 5 Plunger:
- 6 Spring:
- 7 Shading ring:
- 8 Stopper:
- 9 Flange:
- 10 Coil:
- 11 Flat seal:
- 12 Cable plug:
- 13 Locknut:
- To Econtat.
- 14 Mounting screw

Brass S.Steel 1.4305 FPM (Viton) FPM (Viton) S.Steel 1.4303 S.Steel 1.4105 S.Steel 1.4310 Cu (brass version) Ag (stainless steel version) S.Steel 1.4105 Zn3 gl cC (surface) PA (Polyamide) NBR PA (Polyamide) 9SMnPb28K (surface Zn5glcA) DIN 84-4.8 A2L

Type 6011

Sub-base Connection

Specifications - Ordering Chart (Other Versions on Request)

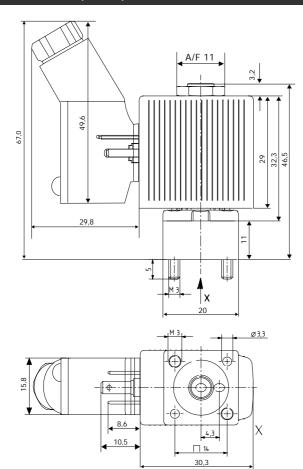
Type 6011: brass and stainless steel body, Viton seal

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

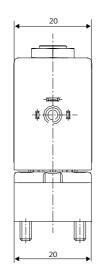
·) [·				,						
Circuit	Orifice	Kv-value	QNn-Value	Pressu	re	Port	Voltage/	Weight	Order-No.	Order-No.
function		water	air ¹⁾	range ²⁾		connection	frequency		(Stainless	(Brass body)
	[mm]	[m³/h]	[l/min]	[bar]		[inch]	[V/Hz]	[g]	Steel body)	
				AC	DC					
А	1,2	0,045	48	0-21	0-12	Sub-base	24/=	97		134 115 B
				0-21	0-12		24/50			134 116 C
				0-21	0-12		110/50			134 117 D
				0-21	0-12		230/50			134 118 N
	1,6	0,06	65	0-12	0-6	Sub-base	24/=	97	134 131 B	134 119 P
				0-12	0-6		24/50		134 132 C	134 120 L
				0-12	0-6		110/50		134 133 D	134 121 H
				0-12	0-6		230/50		134 134 E	134 122 A
	2,0	0,11	120	0-8	0-4,5	Sub-base	24/=	97	134 135 F	134 123 B
				0-8	0-4,5		24/50		134 136 G	134 124 C
				0-8	0-4,5		110/50		134 137 H	134 125 D
				0-8	0-4,5		230/50		134 138 J	134 126 E
	2,4	0,13	140	0-6	0-3	Sub-base	24/=	97		134 127 F
				0-6	0-3		24/50			134 128 Q
				0-6	0-3		110/50			133 129 R
				0-6	0-3		230/50			134 130 N

 $^{1)}$ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 $^\circ$ C. $^{2)}$ All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Dimensions (in mm)

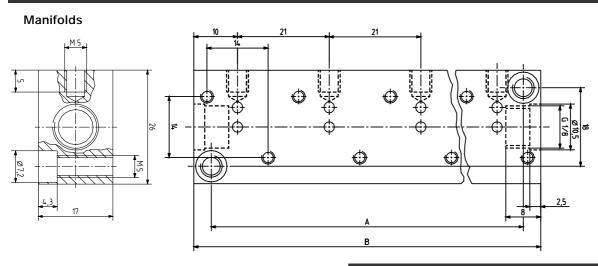


View without cable plug



Sub-base Connection

Dimensions Accessories (in mm)



Manifold Mounting

The manifolds for 1 to 6 valves have a common pressure inlet and individual outlet for each valve. Type 6011 may also be mounted together with 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.

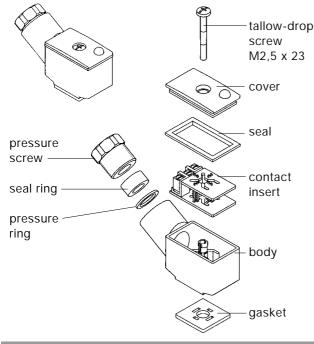
Manifolds may be coupled together using special push-fit O-ring connection nipples for linking the pressure inlets P. Manifolds joined together in this way should be securely mounted.

Ordering Chart for Manifolds/Accessories

Device/Accessory	Features			Order-No.
Single manifold	Aluminium			005 312 T
Multiple manifold ¹⁾	Hole	Overall		
(Aluminium)	spacing A	length B		
2 valves	33	41		005 355 E
3 valves	54	62		005 313 U
4 valves	75	83		005 314 V
5 valves	96	104		005 315 W
6 valves	117	125		005 316 X
8 valves	159	167		005 166 Z
10 valves	201	209		005 819 Y
Connector nipples	with O-rings			005 040 A
Blanking screw	with seal ring, G 1/8			005 041 X
Blanking plug	with screw			

¹⁾ Multiple manifolds for 7, 9, 11 and 12 Valves on request

Cable plug to DIN 43650, Form C



Ordering Chart for Accessories

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

¹⁾ The standard cable plug (0-250 V AC/DC), Order-No. 008 353 P is part of the standard delivery. Ordering of optional cable plugs with separate ordering number.

A wide selection of further cable plugs is available (see special data sheet Type 2506)

We reserve the right to make technical changes without notice.

710-GB/ 2-0042

In case of special requirements please consult for advice.