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



Technical Data Type 6011

Circuit function

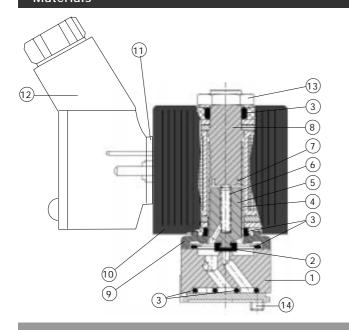
Symbol

A 2/2-way valve, normally closed



Operating Data (Valve)		Operating Data (Actua	ator)		
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	Valtagas talaranas	110.07		
Orifice	DN 1.2 - 2.4 mm	Voltages tolerance	±10 %		
Fluid	Neutral gases and liquids, e.g. compressed air, town gas, natural gas, water,	Power consumption	AC inrush AC hold DC 9 VA 6 VA/4 W 4 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 mm ² /s	Electr. connection	Delivery standard:		
Response times opening 5-18 ms closing approx. 8 ms			Cable plug DIN 43 650 C, 0-250 V (Other versions see accessories)		
Installation	as required, but preferably with solenoid system upright				

Materials



Valve body: Brass S.Steel 1.4305 2 Plunger-seal: FPM (Viton) O-rings: FPM (Viton) Armature guide tube: S.Steel 1.4303 Plunger: S.Steel 1.4105 6 Spring: S.Steel 1.4310 Shading ring: Cu (brass version) Ag (stainless steel version) 8 Stopper: S.Steel 1.4105 9 Flange: Zn3 gl cC (surface) 10 Coil: PA (Polyamide) 11 Flat seal: **NBR** Cable plug: PA (Polyamide) 12 9SMnPb28K (surface 13 Locknut: Zn5glcA) DIN 84-4.8 A2L 14 Mounting screw

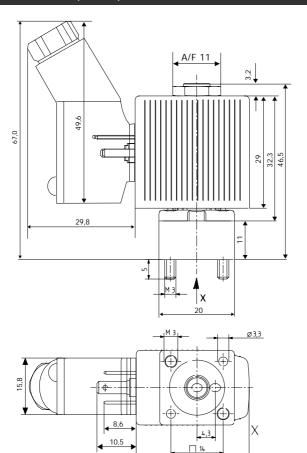
Specifications - Ordering Chart (Other Versions on Request)

Type 6011: brass and stainless steel body, Viton seal

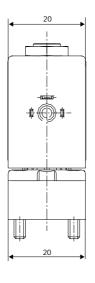
(with standard-cable plug 0-250 V AC/DC)

Circuit	Orifice	Kv-value	QNn-Value	Pressur	e	Port	Voltage/	Weight	Order-No.	Order-No.
function		water	air¹)	range ²⁾		connection	frequency		(Stainless	(Brass body)
	[mm]	$[m^3/h]$	[I/min]	[bar]		[inch]	[V/Hz]	[g]	Steel body)	
				AC	DC					
Α	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

Dimensions (in mm)



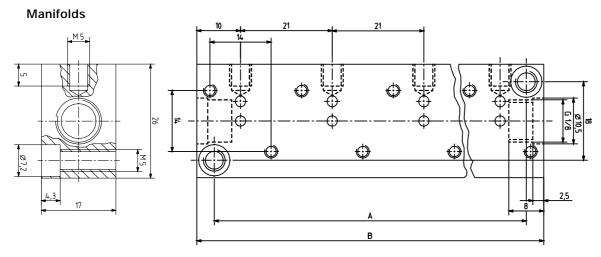
View without cable plug



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

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.

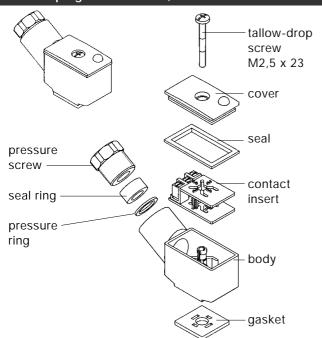
Manifolds may be coupled together using special push-fit O-ring connection nipples for linking the pressure inlets P. Manifolds joined together in this way should be securely mounted.

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 screws + 0-ring			

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

Cable plug to DIN 43650, Form C



Ordering Chart for Accessories

Device/	Features	Order-No.
Accessory		
Cable-	Standard cable plug, 0-250 V AC/DC	008 353 P
plugs¹)	(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 data sheet Type 2506)	

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)