Sub-base Connection

3/2-Way; sub-base connection; DN 1,2-1,6; 0-10 bar



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 301.

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

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



Sub-base Connection

Type 6012

Technical Data Type 6012

Circuit function

Symbol

Circuit function

Symbol

C 3/2-way valve, when de-energized, outlet A pressure relieved

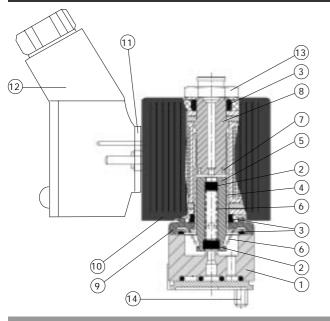


D 3/2-way valve, when de-energized, outlet B pressurized



Operating Data (Valve)		Operating Data (Actuator)			
Pressure range	0-10 bar (see specifications)	Operating voltages	AC 24, 110, 230 V/50 Hz, DC 24 V/=		
Port connection	Sub-base connection				
Orifice	DN 1.2 - 1,6 mm	Voltages tolerance	±10 %		
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. Suitable for techn. vacuum.	Duty cycle Duty cycle for multiple manifolds	100% continuously rated 60% for manifold mounting (30 min) or use 2W-version (on request)		
Medium temperature	–10 to +100 °C	Cycling rate	1000 c.p.m.		
Max. ambient temperature	+55 °C	Protection class with cable plug	IP 65		
Max. viscosity	21 mm²/s				
Response times opening closing	12 ms 8 ms	Electr. connection	Delivery standard: Cable plug DIN 43650 C, 0-250 V (Other versions see accessories)		
Installation	as required, but preferably with solenoid system upright				

Materials



1	Valve	body:
	varvo	NOG J.

- 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:
- 14 Mounting screw

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

Sub-base Connection

Specifications - Ordering Chart (Other Versions on Request)

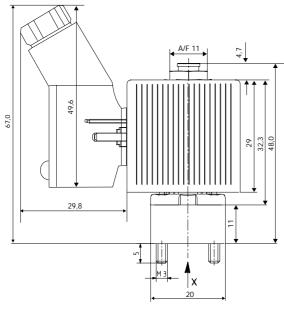
Type 6012: brass and stainless steel body, Viton seal

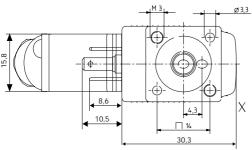
(with standard-cable plug 0-250 V AC/DC)

Circuit function	Orifice [mm]	Kv-value water [m³/h]	QNn-Value air ¹⁾ [I/min]	Pressure range ²⁾ [bar]	Port connection [inch]	Voltage/ frequency [V/Hz]	Weight [g]	Order-No . (Brass body)	Order-No . (Stainless) Steel body)
С	1,2	0,045	48	0-10	Sub-base	24/=	97	134 175 P	134 183 G
				0–10		24/50		134 176 Q	134 184 H
				0–10		110/50		134 177 R	134 185 A
				0–10		230/50		134 178 S	134 186 B
	1,6	0,06	65	0- 6	Sub-base	24/=	97	134 179 T	134 187 C
				0- 6		24/50		134 180 R	134 188 M
				0- 6		110/50		134 181 E	134 189 N
				0- 6		230/50		134 182 F	134 190 K

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

Dimensions (in mm)



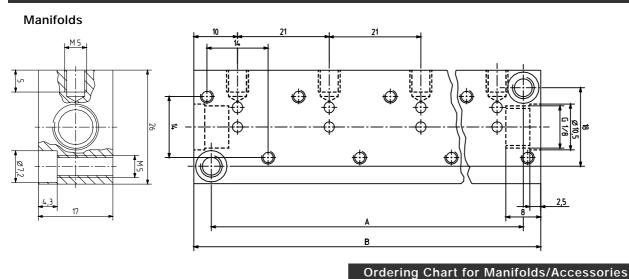


View without cable plug



Sub-base Connection

Dimensions Accessories (in mm)



tallow-drop

Manifold Mounting

The manifolds for 1 to 12 valves have a common pressure inlet P (R) for the pressure connection of type 6012-C or the exhaust connection of type 6012-D and an individual lateral outlet A (B) for each valve. Type 6012-C may also be mounted together with Type 6011 valves. They can however not be mounted with Type 6012-D valves. The electrical connection can be either on the right or left of the manifold.

Manifolds may be coupled together using special pushfit O-ring connecting nipples for linking the pressure inlets P (R). Manifolds joined together in this way should be securely mounted.

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

Ordering Chart for Accessories

Device/ Accessory	Features	
Cable-	Standard cable plug, 0-250 V AC/DC	008 353 P
plugs ¹⁾	(standard-delivery) ¹⁾	
Туре 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)

We reserve the right to make technical changes without notice.

710-GB/ 2-0044

screw B M2,5 x 23 \bigcirc

Cable plug to DIN 43650, Form C

