Threaded Port G¹/8"-M5

3/2-Way; G ¹/8-M5; 0-10 bar



Design/Functions

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 or stainless steel. 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 300.

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



Threaded Port G¹/8"-M5

Technical Data Type 6012

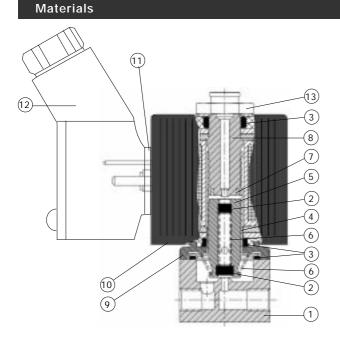
Circuit function

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 (Valve)		Operating Data (Actuator)				
Pressure range	0-10 bar (see specifications)	Operating voltages	AC 24, 110, 230 V/50 Hz, DC 24V/=			
Port connection Orifice	Threaded port G 1/8"- M5 DN 1.2-1,6 mm	Voltage 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	up to 1 000 c.p.m.			
Max. ambient temperature Max. viscosity	+55 °C 21 mm²/s	Protection class with cable plug	IP 65			
Response times opening closing	12 ms 8 ms	Electr. connection	Delivery standard: Cable plug DIN 43 650 C, 0-250 V(other versions see accessories)			
Installation	as required, but preferably with solenoid system upright					



Valve body: 1

- Plunger-seal: 2
- 3 O-rings:
- 4 Armature guide tube:
- 5 Plunger:
- Spring: 6
- 7 Shading ring:
- 8 Stopper:
- 9 Flange:
- 10 Coil:
- Flat seal: 11
- 12 Cable plug:
- 13 Locknut:
- S.Steel 1.4305 (G1/8") FPM (Viton) FPM (Viton) 1.4303 1.4105 1.4310 Cu (brass version) Ag (stainless steel version) 1.4105 Zn3 gl cC (surface) PA (Polyamide) NBR PA (Polyamide) 9SMnPb28K (surface Zn5glcA)

Brass,

Circuit function

T Universal mixer or distributor valve, when de-energized $R \Leftrightarrow A$ open and $P \Leftrightarrow A closed$, for universal use (on request)



Symbol

Threaded Port G1/8"-M5

Specifications - Ordering Chart (Other Versions on Request)

Brass boo	ly; Viton sea	al			(with standar	d-cable plug 0	-250 V AC/DC
Circuit	Orifice	Kv-value	Pressure	Port	Voltage/	Weight	Order-No.	Order-No.
function ¹⁾		water ²⁾	range ³⁾	connection	frequency		(without	(with
	[mm]	[m³/h]	[bar]		[V/Hz]	[g]	manual)	manual)
							override)	override)
С	1,2	0,045	0–10	M5	24/=	109	134 143 P	-
					24/50		134 144 Q	-
					110/50		134 145 R	-
					230/50		134 146 J	-
С	1,2	0,045	0–10	G 1/8	24/=	131	134 151 P	134 159 X
					24/50		134 152 Q	134 160 U
					110/50		134 153 R	134 161 R
					230/50		134 154 J	134 162 J
С	1,6	0,06	0-6	M5	24/=	109	134 147 K	-
					24/50		134 148 U	-
					110/50		134 149 V	-
					230/50		134 150 S	-
С	1,6	0,06	0-6	G 1/8	24/=	131	134 155 K	134 163 K
					24/50		134 156 L	134 164 L
					110/50		134 157 M	134 165 M
					230/50		134 158 W	134 166 N
D	1,2	0,045	0–10	M5	24/=	109	134 199 Q	-
					24/50		134 200 D	
					110/50		134 201 S	-
					230/50		134 202 T	-
D	1,2	0,045	0–10	G 1/8	24/=	131	134 208 H	-
					24/50		134 209 A	-
					110/50		134 210 W	-
					230/50		134 211 K	-
D	1,6	0,06	0-6	M5	24/=	109	134 204 V	-
					24/50		134 205 W	-
					110/50		134 206 X	-
					230/50		134 207 Y	-
D	1,6	0,06	0-6	G 1/8	24/=	131	134 212 L	-
					24/50		134 213 M	-
					110/50		134 214 N	-
					230/50		134 215 P	-

Stainless steel body; Viton seal

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

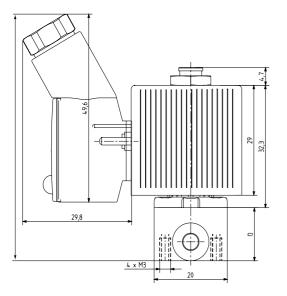
							200 (110/20)	
Circuit	Orifice	Kv-value	Pressure	Port	Voltage/	Weight	Order-No.	Order-No.
function ¹⁾		water ²⁾	range ³⁾	connection	frequency		(without	(with
	[mm]	[m³/h]	[bar]		[V/Hz]	[g]	manual)	manual)
							override)	override)
С	1,2	0,045	0–10	G 1/8	24/=	127	134 167 P	-
					24/50		134 168 Y	-
					110/50		134 169 Z	-
					230/50		134 170 W	-
С	1,6	0,06	0-6	G 1/8	24/=	127	134 171 K	-
					24/50		134 172 L	-
					110/50		134 173 M	-
					230/50		134 174 N	-
D	1,2	0,045	0–10	G 1/8	24/=	127	134 216 Q	-
					24/50		134 217 R	-
					110/50		134 218 S	-
					230/50		134 219 T	-
D	1,6	0,06	0-6	G 1/8	24/=	127	134 220 Y	-
					24/50		134 221 M	-
					110/50		134 222 N	-
					230/50		134 223 P	-

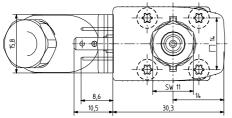
To use valves in other operations than specified, will change the specified maximum pressure range. Special applications on request.
²⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C.
³⁾ All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Type 6012

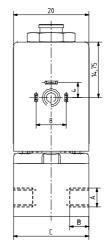
Threaded Port G1/8"-M5

Dimensions (in mm)



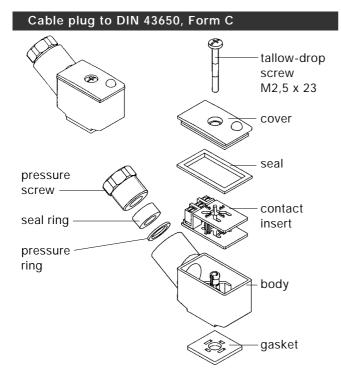


View without cable plug



Variable Dimensions

	Armature				
	А	В	С	D	
Threaded Port G	1/8	8	25	19,5	
without manual override					
Threaded Port G	1/8	8	25	19,5	
with manual override					
Threaded Port M5	M5	5	20	14,0	
without manual override					
Threaded Port M5	M5	5	20	14,0	
with manual override					



Ordering Chart for Accessories

5 4 4	-	
Device/	Features	Order-No.
Accessory		
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)