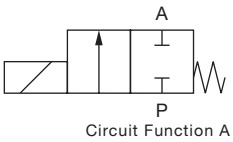
Compact Solenoid Valve
Threaded Port G 1/8 – G 1/4; Sub-base Connection

6013 Ex

2/2-Way; PN up to 10 bar





Circuit Function A

- ✓ **II 2G Ex II T4 PTB 00 ATEX II 2D IP65 T135 °C PTB 00 ATEX 2129X**
- ✓ **Coil lockable in 4 x 90° positions or freely movable in between, as required**
- ✓ **High-quality seal material FKM as standard**

Hazardous Areas

6013 Ex

The valves are based on a modular concept comprising two basic elements: Valve body and push-over coil with moulded-in cable.
The valve body 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.
Valves are available in polyamide, brass or stainless steel, all with high quality FKM seals as standard.

Operating Data – Valve

Pressure range	0 – 10 bar (see specifications)
Port Connections	Threaded port G 1/8“ – G 1/4“ or Sub-base connection
Orifice	DN 2.0 up to 6.0 mm
Fluids	
Brass	• Neutral gases and liquids, e.g. compressed air, town gas, natural gas, water, hydraulic oil and petrol
Stainless Steel	• Difficult and slightly aggressive media • Suitable for technical vacuum
Temperatures	
Medium	-10 up to +90°C
Ambient	-30 up to +60°C
Max. viscosity	21 mm^2/s
Response times	
Opening	AC, DC 20 ms
Closing	AC, DC 30 ms
Installation	As required, but preferably with solenoid system upright

Operating Data – Actuator

Operating voltages	24, 110, 230 V/UC
Voltage tolerance	±10%
Duty cycle	100% continuously rated
Cycling rate	up to 1‘000 c.p.m.
Rating	IP65
Approvals	• Ex m II T4 with moulded cable

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bürkert Fluid Control Systems

Compact Solenoid Valve
Threaded Port G 1/8 – G 1/4; Sub-base Connection

Specifications - Ordering Chart (Other Versions on Request)

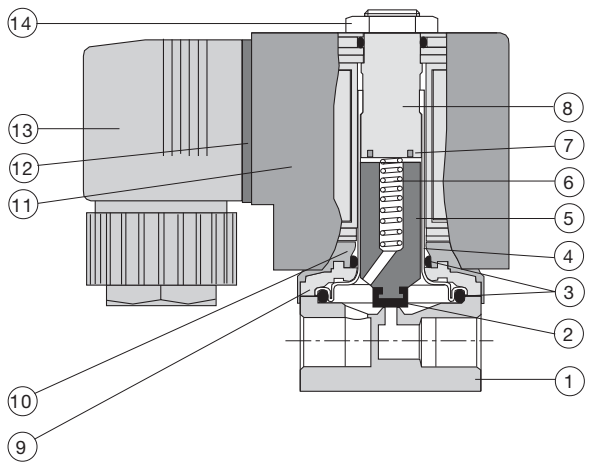
Ex m II T4 approved
Seal material FKM, moulded cable (3 m), single mounting only, without manual override

Circuit function	Orifice DN [mm]	Port connection [inch]	Kv-Value (water) [m³/h]	Power consumption [W]	Pressure range [bar]	Voltage/ Frequency [V/Hz]	Item-No. Body material	
							Brass	Stainless Steel
A	2.0	Sub-base	0.11	7	0 – 6.0	24/UC	139 895 P	–
A	2.0	Sub-base	0.11	7	0 – 6.0	230/UC	139 896 Q	–
A	2.0	G 1/8	0.12	9	0 – 10.0	24/UC	136 039 L	136 027 G
A	2.0	G 1/8	0.12	9	0 – 10.0	110/UC	136 040 Z	136 028 R
A	2.0	G 1/8	0.12	9	0 – 10.0	230/UC	136 041 N	136 029 J
A	2.0	G 1/4	0.12	9	0 – 10.0	24/UC	139 892 L	139 887 P
A	2.0	G 1/4	0.12	9	0 – 10.0	110/UC	139 893 M	139 888 Y
A	2.0	G 1/4	0.12	9	0 – 10.0	230/UC	139 894 N	139 889 Z
A	2.5	G 1/8	0.16	9	0 – 8.0	24/UC	136 042 P	–
A	2.5	G 1/8	0.16	9	0 – 8.0	110/UC	136 043 Q	–
A	2.5	G 1/8	0.16	9	0 – 8.0	230/UC	136 044 R	–
A	3.0	G 1/8	0.23	9	0 – 5.0	24/UC	136 045 J	136 030 P
A	3.0	G 1/8	0.23	9	0 – 5.0	110/UC	136 046 K	136 031 C
A	3.0	G 1/8	0.23	9	0 – 5.0	230/UC	136 047 L	136 032 D
A	3.0	G 1/4	0.23	9	0 – 5.0	24/UC	136 048 V	136 033 E
A	3.0	G 1/4	0.23	9	0 – 5.0	110/UC	136 049 W	136 034 F
A	3.0	G 1/4	0.23	9	0 – 5.0	230/UC	136 050 T	136 035 G
A	4.0	G 1/4	0.30	9	0 – 1.2	24/UC	136 051 Q	136 036 H
A	4.0	G 1/4	0.30	9	0 – 1.2	110/UC	136 052 R	136 037 A
A	4.0	G 1/4	0.30	9	0 – 1.2	230/UC	136 053 J	136 038 K
A	6.0	G 1/4	0.55	9	0 – 0.4	24/UC	136 054 K	139 890 W
A	6.0	G 1/4	0.55	9	0 – 0.4	110/UC	136 055 L	–
A	6.0	G 1/4	0.55	9	0 – 0.4	230/UC	136 056 M	139 891 K

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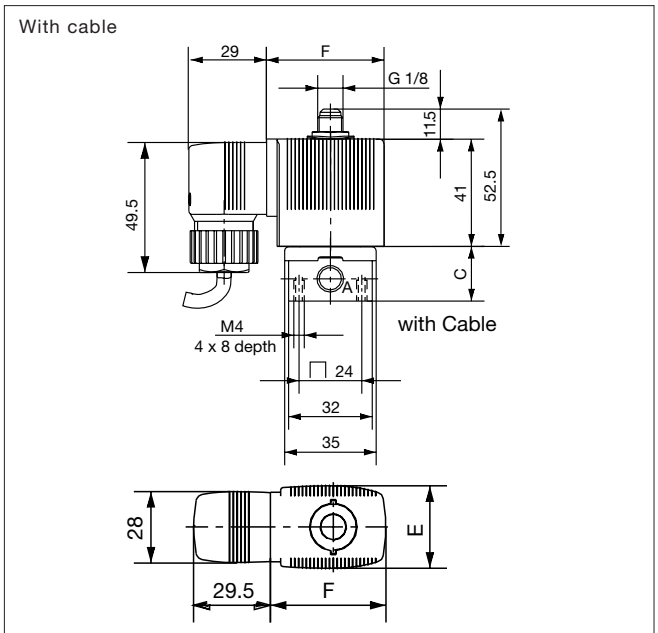
Materials



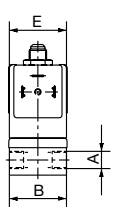
1	Valve body:	Brass, SS 1.4305 (G1/8") SS 1.4401 (G1/4")
2	Plunger-seal:	FKM
3	O-rings:	FKM
4	Armature guide tube:	1.4303
5	Plunger:	1.4105
6	Spring:	1.4310
7	Shading ring:	Cu (brass version) Ag (stainless steel version)
8	Stopper:	1.4105
9	Flange:	Zn3 gl cC (surface)
10	Bonnet:	Durethan BKV30H
11	Coil:	PA (Polyamide)
12	Flat seal:	NBR
13	Cable plug:	PA (Polyamide)
14	Locknut:	9SMnPb28K (surface Zn5glcA)

Dimensions [mm]

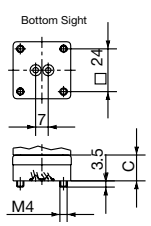
With cable



Threaded version



Sub-base version



	Armature						
	A	B	C	D	E	F	Coil size
Threaded Port	1/8	32	20.8	32.6	32	45	32
	1/4	46	26.8	49	40	51	40
Sub-base	1/8	32	14.3	32.6	32	45	32

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In case of special application requirements,
please consult for advice.

We reserve the right to make technical changes without notice.
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