

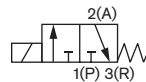
## 3/2-Way Solenoid valve for neutral mediums

- G 1/8, G 1/4
- Quick response time
- Compact design
- Ex e mb IIC T4, T5 Gb

Compact 3/2-way solenoid valve in threaded version, direct acting, with epoxy encapsulated coil. For neutral mediums such as compressed air, inert gases, water, oils, hydraulic fluids based on mineral oil.

For control of single-acting cylinders, pneumatic or hydraulic signal transmitters, for evacuation, venting and for two-point control.

### Circuit function C



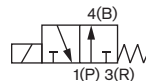
*Closed position:*

When the coil is currentless, the working port (A) is connected to the exhaust port (R). The pressure port (P) is closed by spring force against the medium's pressure.

*Open position:*

On applying current the armature closes the exhaust port (R) with magnetic force. The working port is pressurized.

### Circuit function D



*Open position:*

When the coil is currentless the pressure port (P) is connected with the working port (B). The exhaust port (R) is closed by spring force.

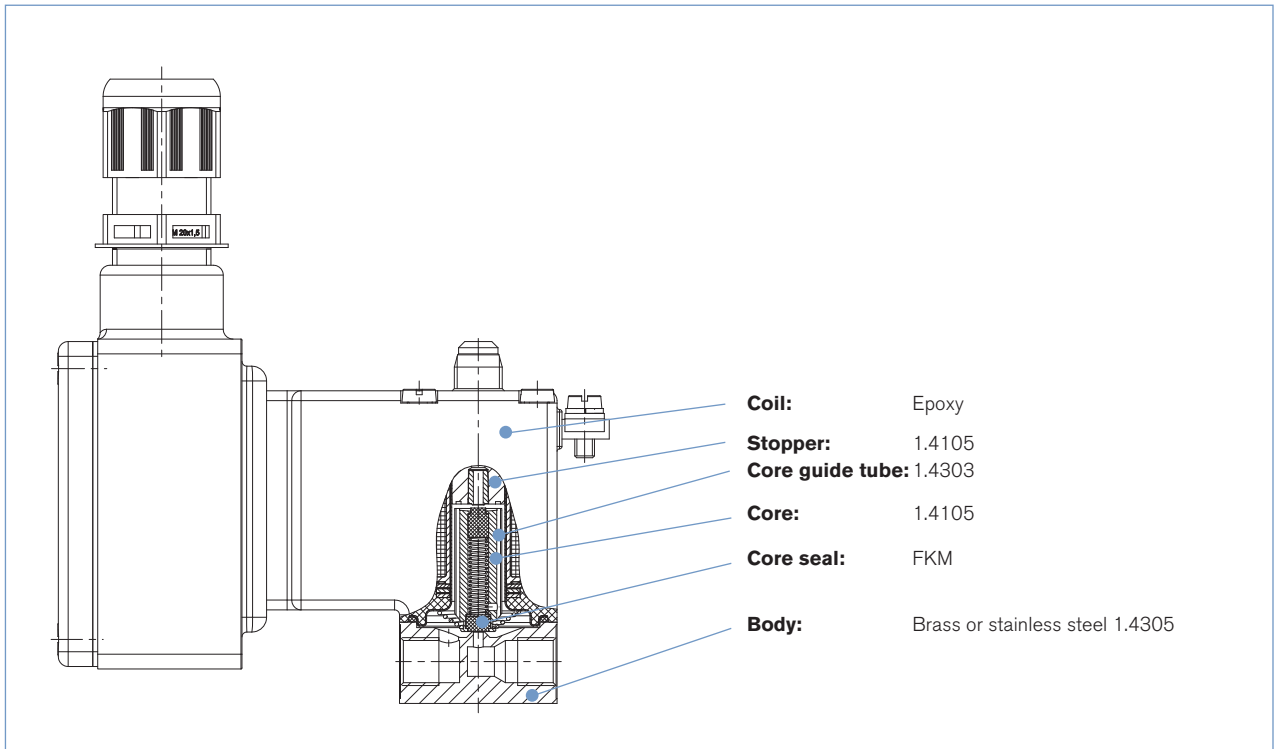
*Closed position:*

On applying current the armature closes the pressure port (P) with magnetic force. The working port (B) is connected to the exhaust port (R).

Technical data	
<b>Orifice</b>	1,2; 1,5; 2; 2,5; 3
<b>Circuit functions</b>	C, D, E
<b>Port connection</b>	G 1/8", G 1/4", NPT 1/8", NPT 1/4", Flange
<b>Body material</b>	brass, stainless steel
<b>Internal parts</b>	1.4105, 1.4303
<b>Seal material</b>	FKM
<b>Medium</b>	neutral gases and liquids like e.g. compressed air, town gas, water, hydraulic oil
<b>Mediums temperature</b>	
T4	-10 °C to +60 °C
T5	-10 °C to +50 °C
<b>Viscosity</b>	Max. 21 mm <sup>2</sup> /s
<b>Response times <sup>1)</sup></b>	
Opening times	ca. 30 ms
Closing times	ca. 60 ms
<b>Cycling rate</b>	approximately 600 cycles/min
<b>Installation</b>	as required (preferably with solenoid system upright)
<b>Type of protection</b>	II 2 G Ex e mb IIC T4, T5 Gb PTB 02 ATEX 2094X Ex mb e II T4, T5, IECEx PTB 05.0064X
<b>Power consumption</b>	
T4	7 W (operating temperature)
T5	5 W (operating temperature)
<b>Ambient temperature</b>	
T4	Max. +60 °C, single mounting
T5	Max. +50 °C, single mounting
<b>Voltage</b>	024/UC 230/UC others on request
<b>Voltage tolerance</b>	±10%
<b>Duty cycle</b>	Continuous operation
<b>Elect. connection</b>	terminal box without fuse, screwed, cable outlet upright
<b>Additional function</b>	Manual override optional

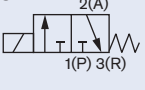
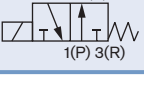
<sup>1)</sup> Measured at output A (B) of the electrical switching, to pressure build-up to 90% and pressure drop to 10%, of the maximum operating pressure or maximum 6 bar.

## Materials [mm]



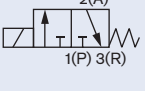
### Ordering chart (further versions on request)

Version acc. to Ex e mb IIC T4, all valves with FKM seal, terminal box without fuse, cable outlet upright, only for single mounting (ambient temperature -30 °C to +60 °C).

Circuit function	Flow rate			Port connection (ISO 228)	Coil power [W]	Pressure range <sup>2)</sup> [bar]	Body material	Seal material	Weight	Voltage	Manual override	Item no.					
	Orifice DN [mm]	Water kv value [m <sup>2</sup> /h]	Air QNn <sup>1)</sup> [l/min]														
	1,5	0,7	76	G 1/4"	7	0-10	brass	FKM	0,60	024/UC		123 975					
				flange								7	0-10	265 694			
				flange								7	0-10	265 695			
	2,0	0,11	120	G 1/8"	7	0-6	brass	FKM	0,60	024/UC			265 573				
													024/UC	•	265 824		
													230/UC	•	265 825		
													stainless steel	FKM	0,60	024/UC	265 585
													230/UC		265 827		
													2,5	0,16	175	G 1/4"	7
	024/UC	•	265 575														
	230/UC	•	265 576														
	stainless steel	FKM	0,60	024/UC	•	265 835											
	2,0	0,11	120	G 1/8"	7	0-6	brass	FKM	0,60			auf Anfrage					
												stainless steel	FKM	0,60	230/UC	265 511	

### Ordering chart (further versions on request)

Version acc. to Ex e mb IIC T5, all valves with FKM seal, terminal box without fuse, cable outlet upright, only for single mounting (ambient temperature -30 °C to +50 °C).

Circuit function	Flow rate			Port connection (ISO 228)	Coil power [W]	Pressure range <sup>2)</sup> [bar]	Body material	Seal material	Weight	Voltage	Manual override	Item no.			
	Orifice DN [mm]	Water kv value [m <sup>2</sup> /h]	Air QNn <sup>1)</sup> [l/min]												
	1.2/1.5	0.05	55	flange	5	0-10	PA	FF	0.60	024/UC		265 559			
												024/UC	•	265 528	
												230/UC		265 634	
	1.2/1.5	0.05	55	flange	5	0-10	MS	FF	0.60	230/UC			265 530		
													230/UC	•	265 530
													230/UC	•	265 636

<sup>1)</sup> Measured at 6 bar inlet pressure and 1 bar pressure differential across the valve at a temperature of +20 °C

<sup>2)</sup> Also applies for technical vacuum.

Ordering Information: Device Type and order no. for these specifications also appear in the order confirmation, delivery notes and invoices.

### i Further versions on request

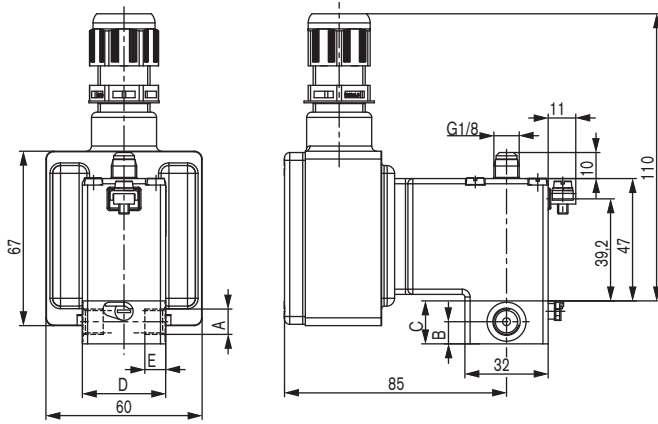
#### ⚡ Voltage

### Ordering chart accessories (middle delay fuse for Types with coil 0641)

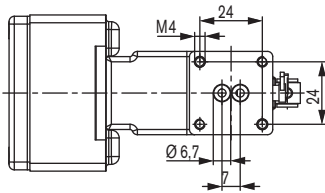
Voltage [V]	Coil power [W]	Fuse nominal value [mA]	Item no.
24	7	800	153 737
230	7	80	153 745

Dimensions [mm]

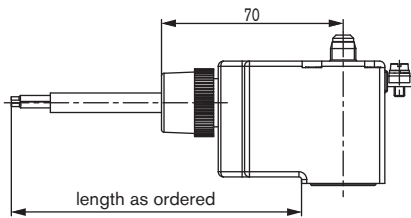
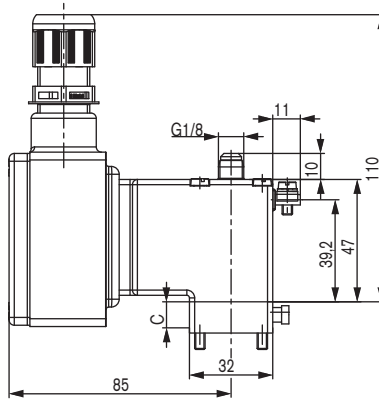
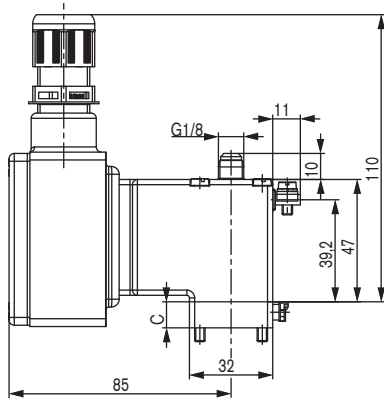
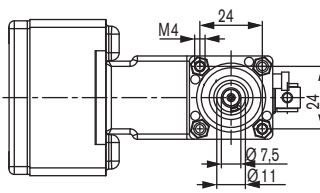
Threaded version



Flange version FB01



Flange version FK01



Port connection	Material	A [inch]	B	C	D	E
Threaded	Brass,	G 1/8	8.5	16.5	32	8
	stainless st.	G 1/4	11	22.5	46	12
Threaded	Brass,	NPT 1/8	8.5	16.5	32	7
	stainless st.	NPT 1/4	11	22.5	46	10
Flange	Brass,	-	-	10	32	-
Flange	stainless st.	-	-	10	32	-
Flange	PA	-	-	12	32	-

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

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