## G 1/8, M5



### Advantages/Benefits

- ▶ Body materials: brass, stainless steel
- ► Short response times
- Compact design
- ▶ When de-energized, outlet port exhausted or pressurized, mixer valve

### Design/Function

Type 300 is available in a variety of different circuit functions, to suit the respective application.

When energized, the solenoid armature is drawn against a spring.

The flow path through the valve is dependent upon the chosen circuit function. The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

## **Applications**

- · Neutral gases and liquids
- Pneumatic control equipment
- Vacuum
- Shut-off, dosing, filling and ventilating
- Gas control, welding technology
- Small-scale instruments, laboratory and measuring technology



# 3/2-Way Miniature Solenoid Valve, Direct-acting

#### Technical Data

#### Circuit Function

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



E Mixer valve, when de-energized pressure port P2 open, P1 closed



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



## **Body Material**

Body and seat of brass Stainless steel 1.4305

#### **Specifications**

Orifice	Kv-Value	QNn-Value	Pressure Range 2)	Weight		
DN	Water	Air 1)	at Circuit Function			
			D, C	E	M 5	G 1/8
[mm]	[m³/h]	[l/min]	[bar]	[bar]	[kg]	
1,2	0,045	48	0-10		0,10	0,12
1,6	0,060	65	0- 6	0-3	0,10	0,12

1) Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C., 2) Also suitable for vacuum.

All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

#### Operating Data (Valve)

#### Operating Data (Actuator)

Seal Materials/Fluids Handled/Temp Range					
Seal Materials/Fillins Handlen/Temb - Rande	Caal Makaniale	· /୮I:	110001001/	Г	D
	Sear Mareriais	:/FIIIIns	Handled/	iemn -	Range

NBR Neutral fluids, e.g. compressed air, town gas,

water, hydraulic oil, oils and fat without

additives -10 to +90 °C

EPDM Oils and fat-free fluids, e.g. hot water

alkaline washing and bleaching lyes

40 to +00 °C

-40 to +90 °C

FPM Hot air, oxygen, per-solutions, hot oils

oils with additives -10 to +100 °C

For more detailed information please refer to resistance

chart (Leaflet-No. 1896009).

Max. ambient temperature + 55 °C

Max. viscosity 21 mm<sup>2</sup>/s

Response times opening 12 ms

closing 8 ms

Times measured at outlet A or B from switching on until pressure rise to 90 % / pressure drops to 10 % at a max.

working pressure of 6 bar.

Port connection M5, G 1/8

Operating voltages 24, 110, 240 V/50 Hz

12, 24 V/=

24 V battery voltage

Voltage tolerance ±10 %

Power consumption AC 9 VA (inrush)

6 VA/ 4 W (hold)

DC 4 W

Duty cycle 100% continuously rated,

for multiple assembly reduced duty cycle or use 2W version on request

Cycling rate up to 1000 c.p.m

Rating with cable plug and cable

IP65

#### Installation / Accessories

Installation as required, but preferably

with solenoid system upright

Electrical connection

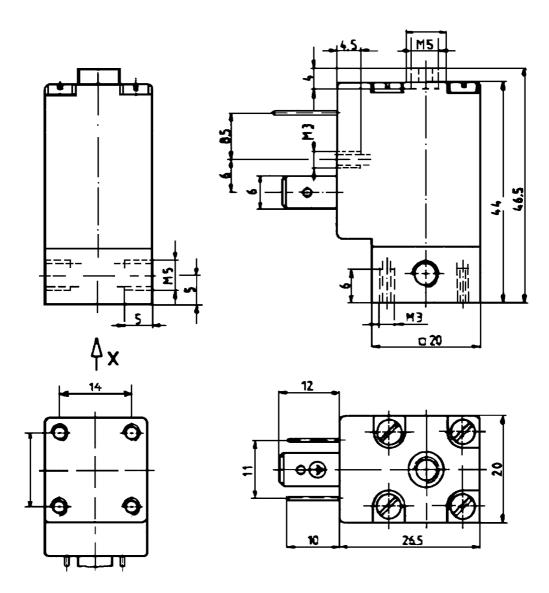
 plug connection without cable plug (supplied as standard)

moulded-in cable on request

moulded-in flying leads

on request

# Dimensions in mm



# 3/2-Way Miniature Solenoid Valve, Direct-acting

# Ordering Chart (Other Versions on Request)

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Circuit Function	Orifice DN	Flow Rate Water Kv-Value	Air 1) QNn	Port Connection	Pressure Range	Body Material	Seal Material	Weight	Voltage/ Frequency	Order-No.
	[mm]	[m <sup>3</sup> /h]	[l/min]	[mm]	[bar]			[kg]	[V/Hz]	
С	01,2	0,045	48	G 1/8	0-10	Brass	NBR	0,12	024/50	062 061 T <sup>2)</sup>
									024/50	051 867 V
									024/=	053 176 S <sup>2)</sup>
									024/=	046 018 Y
									110/50	079 864 E <sup>2)</sup>
									110/50	062 686 T
									230/50	057 762 H <sup>2)</sup>
									230/50	058 065 B
									240/50	079 073 G <sup>2)</sup>
									240/50	067 937 K
				M 5	0-10	Brass	NBR	0,10	024/50	053 072 V <sup>2)</sup>
									024/50	045 335 Z
									024/=	052 566 Y <sup>2)</sup>
									024/=	046 981 K
									110/50	079 865 F <sup>2)</sup>
									110/50	024 376 V
									230/50	053 071 U <sup>2)</sup>
									230/50	045 752 B
									240/50	053 172 W <sup>2)</sup>
									240/50	019 026 M
	01,6	0,060	65	G 1/8	0- 6	Brass	NBR	0,12	012/=	050 922 X
									024/50	046 954 X
									024/=	058 509 N
									110/50	058 876 D
									230/50	046 178 D
									240/50	061 922 N
		0.040	4.5	M 5	0 (	D	NDD	0.10	004/50	044.044.5
		0,060	65	M 5	0- 6	Brass	NBR	0,10	024/50	044 341 E
									024/=	042 570 E
									110/50	024 377 W
									230/50	047 599 V
						_			240/50	066 308 L
				G 1/8	0- 6	Stainless	FPM	0,12	024/=	044 086 K
				G 176	0- 0	Stairness	I FIVI	0,12	024/=	044 080 K
				M 5	0- 6	Brass	FPM	0,10	024/=	046 483 Q
				141 3	0 0	Бгазэ	11101	0,10	02 17 =	0101000
D	01,2	0,045	48	G 1/8	0-10	Brass	NBR	0,12	024/50	046 975 U
									024/=	043 861 X <sup>2)</sup>
									024/=	045 435 N
									110/50	051 590 U
									230/50	058 193 Z
									240/50	067 936 J
				M 5	0-10	Brass	NBR	0,10	024/50	048 457 F
									024/=	047 763 G
									110/50	066 566 W
									240/50	066 584 R

1) Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, 2) with manual overide.

# 3/2-Way Miniature Solenoid Valve, Direct-acting

### **Ordering Chart (Other Versions on Request)**

Circuit	Orifice	Flow Rate		Port	Pressure	Body	Seal	Weight	Voltage/	Order-No.
Function		Water	Air 1)	Connection	Range	Material	Material		Frequency	
	DN	Kv-Value	QNn							
	[mm]	[m³/h]	[l/min]	[mm]	[bar]			[kg]	[V/Hz]	
D	0,12	0,045	48	M 5	0-10	Brass	NBR	0,10	230/50	054 613 Z
	01,6	0,060	65		0- 6	Brass	EPDM	0,10	024/=B <sup>3)</sup>	019 878 G
				G 1/8	0- 6	Brass	NBR	0,12	024/50	067 073 U
									024/=	053 130 Y
									110/50	018 819 U
									230/50	045 595 P
									240/50	055 284 Z
				M 5	0- 6	Brass	NBR	0,10	024/50	053 068 H
									024/=	048 175 C
									110/50	066 586 K
									230/50	064 160 H
									240/50	066 619 B
Е	01,6	0,060	65	G 1/8	0- 3	Stainless	FPM	0,12	012/=	056 585 Q

<sup>&</sup>lt;sup>-1)</sup> Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, <sup>3)</sup> =B battery voltage