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)

Saal	Matariale	/Eluide	Handled/	Tomn -	Dange
Seai	IVIALEITAIS	/ Liulus	Hallul c u/	I CIIID	Nanue

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 +90 °C

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

oils with additves -10 to +100 °C

For more detailed information please refer to resistance

chart (Leaflet-No. 1896009).

+ 55 °C Max. ambient temperature

21 mm²/s Max. viscosity

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

±10 % Voltage tolerance

AC 9 VA (inrush) Power consumption

6 VA/ 4 W (hold)

DC 4 W

100% continuously rated, Duty cycle

> 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

Installation / Accessories

Installation as required, but preferably

with solenoid system upright

Electrical connection

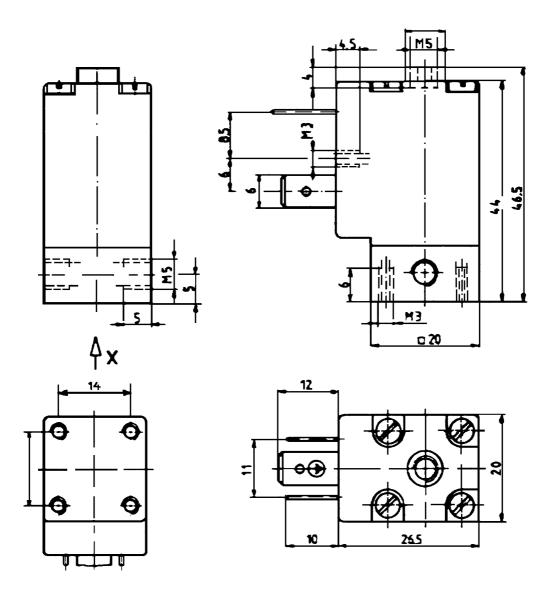
· plug connection without cable plug (supplied as standard)

· 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)

DTS 1000010921 EN Version: A Status: RL (released | freigegeben | validé) printed: 08.08.2008

Water	Circuit	Orifice	Flow Rate		Port	Pressure	Body	Seal	Weight	Voltage/	Order-No.
DN		Office		Δir 1)			•		vveigin		Order-No.
C	Tunction	DN			Connection	Range	Material	Waterial		rrequericy	
C 01.2 0,045 48 G 1/8 0.10 Brass NBR 0,12 024/50 065.0E TF 024/5 065.0E TF 024					[mm]	[bar]			[ka]	[V/Hz]	
024/50 051867 V 024/- 024/- 0340 083 176 SN 10050 002 686 T 110/50 002 686 T 230/50 063 065 B 240/50 068 065 B 240/50 079 973 G 240/50 064 935 K 100/50 064 935	С						Brass	NBR	-		062 061 T ²⁾
0.246 0.246										024/50	
										024/=	053 176 S ²⁾
110/50										024/=	
M 5											
M S O-10 Brass NBR O,10 O24/50 O58 058 B O58 058											
M S O-10 Brass NBR O,10 O24/50 O33 0/2 V O32 0/2											
M 5											
M 5 0-10 Brass NBR 0,10 024/50 053 072 V? 024/5 045 335 Z 024/2 046 981 K 110/50 079 865 F2 B 110/50 053 072 V? 024/2 046 981 K 110/50 079 865 F2 B 230/50 053 071 V? 230/50 053 071 V? 230/50 053 772 V? 240/50 064 752 B 240/50 064 752 B 240/50 066 752 B 240/50 066 753 CB 240/50 066 750 CB 240/50 066 750 CB 240/50 066 308 LB 240/50 066											
024/50											
024/50					M 5	0-10	Brass	NBR	0.10	024/50	053 072 V ²⁾
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024/= 058 509 N 110/50 058 876 D 230/50 046 178 D 240/50 061 922 N 0061 921 N 0061 922 N			2,020						-,		
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G 1/8											
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M 5 0-10 Brass NBR 0,10 024/= 045 435 N 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			,,,,,						.,		
M 5 0-10 Brass NBR 0,10 024/50 048 457 F 024/= 047 763 G 110/50 051 590 U 230/50 058 193 Z 240/50 067 936 J											
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M 5 0-10 Brass NBR 0,10 024/50 067 936 J M 5 0-10 Brass NBR 0,10 024/50 048 457 F 024/= 047 763 G 110/50 066 566 W											
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024/= 047 763 G 110/50 066 566 W										1.0,00	207,700 3
024/= 047 763 G 110/50 066 566 W					M 5	0-10	Brass	NBR	0,10	024/50	048 457 F
110/50 066 566 W									27.5		
										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 ³⁾	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

¹⁾ Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, ³⁾ =B battery voltage