3/2-Way, G 1/4



Advantages/Benefits

- **▶** Body material: brass
- Metal-sealed pressurized parts
- ► High sealing capacity, even with large temperature fluctuations

Design/Function

Type 355 is a direct-acting solenoid valve. The circuit functions A, B or F can be developed from the valve in circuit function C, by interchanging the port connections.

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

The flow path through the valve is dependent on the chosen circuit function.

The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

Applications

- Neutral gases and liquids
- High temperatures, such as hot water, steam, hot air, thermal oils
- Heating
- Sterilizing
- Impregnating





Solenoid Valve for neutral media and steam up to 180 °C

Technical Data

Circuit Function

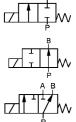
C 3/2-way valve, when deenergized, outlet A exhaused.



A 2/2-way valve, normally closed.



B 2/2-way valve, normally open.



F 3/2-way distributor valve, when de-energized, pressure port P connected to outlet B.



Body Material

Brass, seat 1.4305 Valve internals 1.4305, 14571

Specifications

Orifice	Kv-Value	QNn-Value	Pressure Range 1)		Weight
DN	Water	Air	Seal Material		
			NBR, EPDM	PTFE	
[mm]	[m³/h]	[l/min]	[bar]	[kg]	
2	0,11	100	0-16	0- 14	0,6
3	0,20	200	0-10	0- 8	0,6
4	0,40	400	0- 6	0- 5	0,6
5	0,58	600	-	0- 2	0,6

¹⁾ Also suitable for technical vacuum.

Operating Data (Valve)

Seal Materials/Fluids Handled/Temp.- Range

Neutral fluids, e.g. compressed air, water, hydraulic oil, oils and fat without additives, town gas -10 to +90 °C

EPDM Oils and fat-free fluids, e.g. hot water alkaline washing and bleaching lyes

-40 to +130 °C

PTFE As required, as long as body material is resistant

-40 to +180 °C 4)

⁴⁾ higher temperatures on request.

For more detailed information please refer to resistance chart (Leaflet-No. 1896009).

55 °C Max. ambient temperature

Max. viscosity approx. 21 mm²/s

DC Response times [ms] AC 10-20 20-80 opening closing 20-30 20-30

Operating Data (Actuator)

Operating voltages 24, 110, 230, 240 V/50 Hz

220 V/UC (universal current)

24 V/=

Voltage tolerance ±10 %

Duty cycle 100% continuously rated

Power consumption AC 35 up to 40 VA

DC 12 W

with IP 65 cable plug Rating

Installation / Accessories

Installation as required, but preferably solenoid system upright with

Electrical connection • cable plug for 6-7 mm ø cable (supplied as

standard)

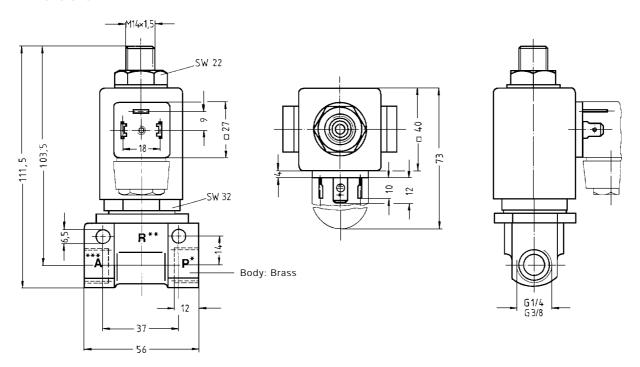
All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Valve Used With Different Circuit Functions

The springs of each valve have been rated for a specific circuit function. If used for another circuit function, the recommended operating pressures will vary according to the following chart:

Valve Version		Max. operating pressure (bar) used in circuit function						
Orifice	Circuit							
[mm]	Function	А	В	С	D	E	F	
2	С	16	25	16	2	2	25	
3	С	10	16	10	1	1	16	
4	С	6	10	6	0,5	0,5	10	
5	С	3	4	3	-	-	4	

Dimensions in mm



Port Connections

The adjacent chart shows the port connections for the chosen circuit function. Plug unused connections for circuit functions A and B using a G 1/4 (Order-No. 605 900 L) blanking plug.

Circuit Function	*	**	***
Function			
Α	Р	-	A
В	-	В	Р
С	Р	R	Α
D	R	Р	В
E	P1	P2	A
F	A	В	Р

Ordering Chart (Other Versions on Request)

Circuit Function	Orifice	Flow Rate Water	Air	Port Connection	Pressure 1) Range	Body Material	Seal Material	Weight	Voltage/ Frequency	Order-No.
	DN	Kv-Value	Q/Nn		J				. ,	
	[mm]	[m³/h]	[l/min]		[bar]			[kg]	[V/Hz]	
С	02,0	0,11	100	G 1/4	0-16	Brass	EPDM	0,6	230/50	066 007 S
							NBR		024/50	026 069 X
									024/=	043 089 V
									110/50	044 119 Y
									230/50	068 078 J
					0-14	Brass	PTFE	0,6	024/50	049 998 F
									024/=	062 188 Y
									110/50	067 077 Y
									230/50	049 025 S
									240/50	086 485 B
	03,0	0,20	200	G 1/4	0-10	Brass	NBR	0,6	024/50	017 668 B
									024/=	068 557 F
									110/50	025 790 S
									230/50	061 174 Y
					0- 8	Brass	PTFE	0,6	024/50	067 817 K
									024/=	052 665 B
									110/50	067 146 S
									230/50	054 885 K
									240/50	067 176 Y
	04,0	0,40	400	G 1/4	0- 6	Brass	NBR	0,6	024/50	019 095 K
									024/=	061 104 T
									110/50	087 846 M
									230/50	061 019 Y
					0- 5	Brass	PTFE	0,6	024/50	065 552 X
									024/=	052 078 A
									110/50	067 164 U
									230/50	058 403 C
									240/50	059 660 Z
	05,0	0,58	600	G 1/4	0- 2	Brass	PTFE	0,6	220/UC	087 482 H

¹⁾ Also suitable for technical vacuum



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