

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

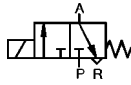
- Neutral gases and liquids
- High temperatures, such as hot water, steam, hot air, thermal oils
- Heating
- Sterilizing
- Impregnating

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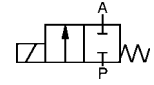
## Technical Data

### Circuit Function

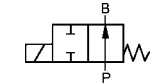
**C** 3/2-way valve, when de-energized, outlet A exhausted.



**A** 2/2-way valve, normally closed.



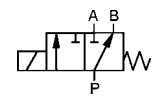
**B** 2/2-way valve, normally open.



### Body Material

Brass, seat 1.4305  
Valve internals 1.4305, 14571

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



### Specifications

Orifice DN	Kv-Value Water	QnN-Value Air	Pressure Range <sup>1)</sup>		Weight
			Seal Material NBR, EPDM	PTFE	
[mm]	[m <sup>3</sup> /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

<sup>1)</sup> Also suitable for technical vacuum.

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

### Operating Data (Valve)

#### Seal Materials/Fluids Handled/Temp.- Range

**NBR** 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 <sup>4)</sup>

<sup>4)</sup> higher temperatures on request.

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

Max. ambient temperature	55 °C
Max. viscosity	approx. 21 mm <sup>2</sup> /s
Response times [ms]	AC DC
opening	10-20 20-80
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

Rating with IP 65 cable plug

### Installation / Accessories

Installation with as required, but preferably solenoid system upright

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

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

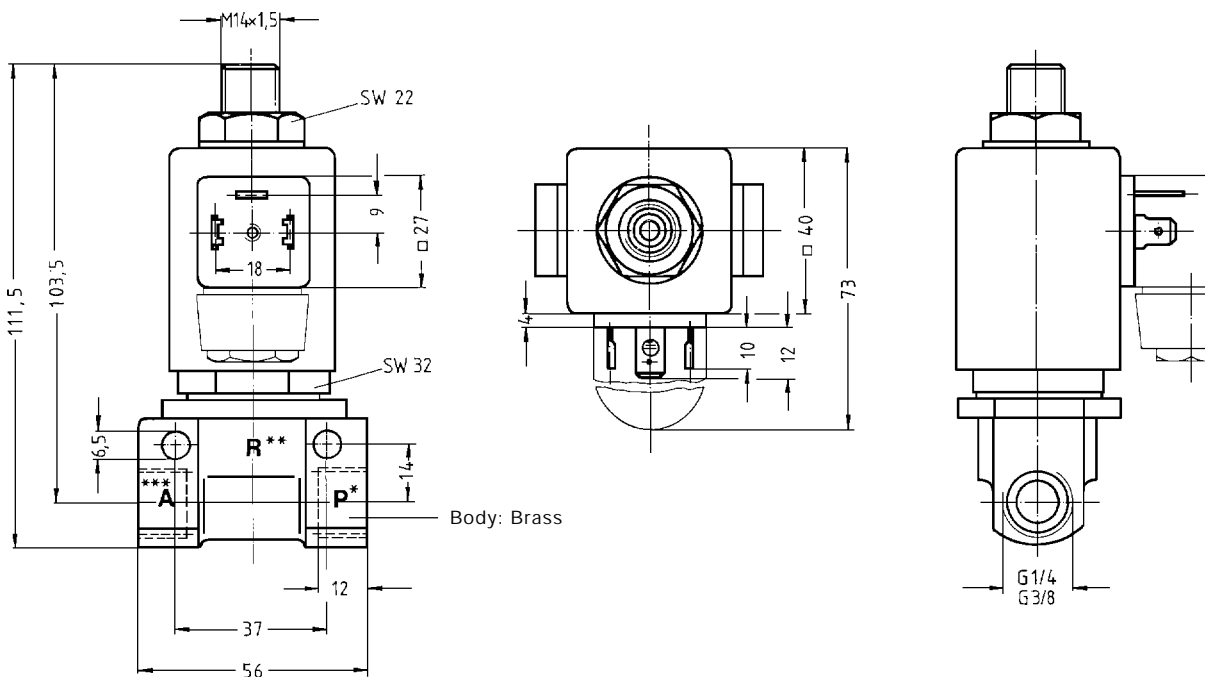
**Type 355**

## 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 [mm]	Circuit Function	A	B	C	D	E	F
2	C	16	25	16	2	2	25
3	C	10	16	10	1	1	16
4	C	6	10	6	0,5	0,5	10
5	C	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	*	**	***
A	P	-	A
B	-	B	P
C	P	R	A
D	R	P	B
E	P1	P2	A
F	A	B	P

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

# Type 355

## Ordering Chart (Other Versions on Request)

Circuit Function	Orifice DN [mm]	Flow Rate		Port Connection	Pressure Range [bar]	Body Material	Seal Material	Weight [kg]	Voltage/ Frequency [V/Hz]	Order-No.	
		Water Kv-Value [m <sup>3</sup> /h]	Air Q/Nn [l/min]								
C	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
								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	

<sup>1)</sup> Also suitable for technical vacuum