

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.

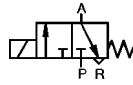
Applications

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

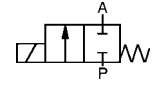
Technical Data

Circuit Function

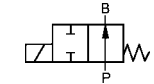
C 3/2-way valve, when de-energized, outlet A exhausted.



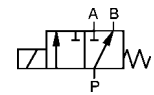
A 2/2-way valve, normally closed.



B 2/2-way valve, normally open.



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 DN	Kv-Value Water	QNm-Value Air	Pressure Range ¹⁾		Weight
			Seal Material NBR, EPDM	PTFE	
[mm]	[m ³ /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.

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 ⁴⁾

⁴⁾ 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 ² /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

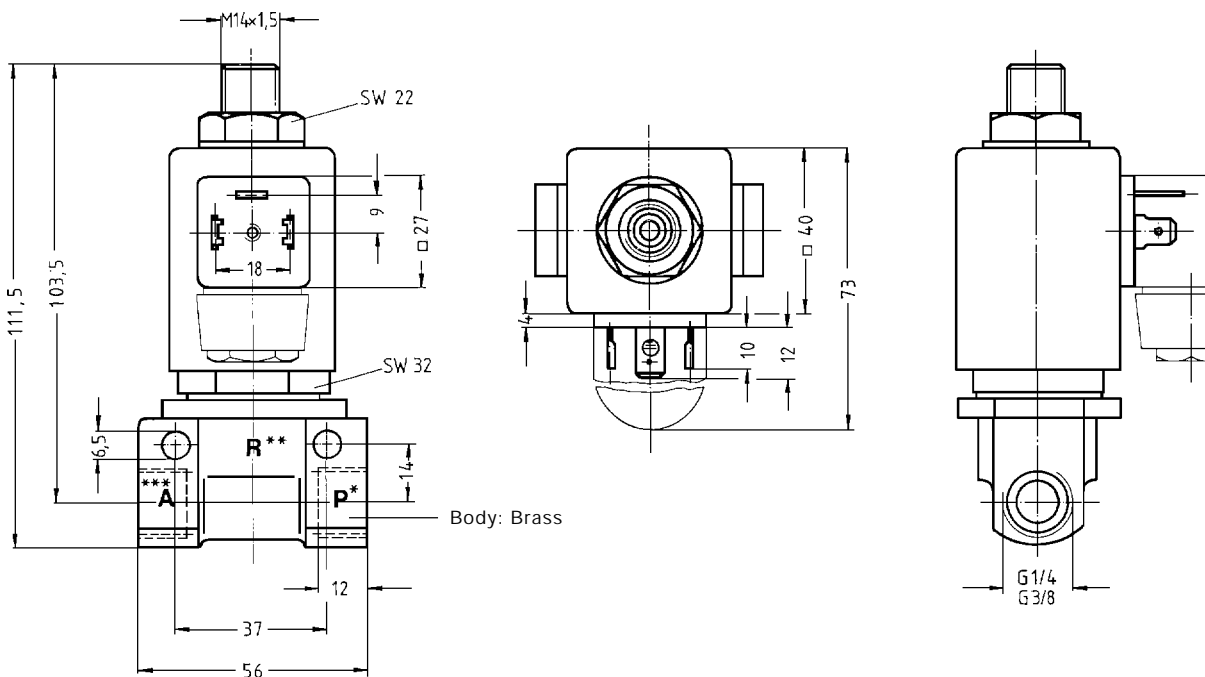
Type 355

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 ³ /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	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/=
								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/=
								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