

3/2-Way, NPT 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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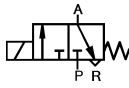


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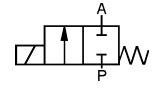
## Technical Data

### Circuit Function

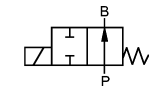
**C**-3/2-way valve, when de-energized, outlet A exhausted.



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



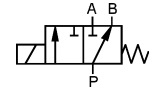
**B**-2/2-way valve, normally open.



### 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  [mm]	Cv	QNm-Value Air  [SCFM]	Pressure Range <sup>1)</sup>		Weight  [lb]
			Seal Material NBR, EPDM [PSI]	PTFE [lb]	
2	.13	3.53	230	0-196	1.32
3	.23	7.06	140	0-112	1.32
4	.47	14.12	N/A	0- 70	1.32

<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  
+14°F to +194°F

**EPDM** Oils and fat-free fluids, e.g. hot water alkaline washing and bleaching lyes  
-40°F to +266°F

**PTFE** As required, as long as body material is resistant  
-40°F to +356°F <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	131°F	
Max. viscosity	approx. 21 cSt	
Response times [ms]	AC	DC
opening	10-20	20-80
closing	20-30	20-30

### Operating Data (Actuator)

Operating voltages	24, 110, 220 V/60 Hz 220 V/UC (universal current) 24 VDC
Voltage tolerance	±10 %
Duty cycle	100% continuously rated
Power consumption	AC 35 up to 40 VA DC 12 W
Rating	with NEMA 4 (IP 65) cable plug

### Installation / Accessories

Installation	as required, but preferably with solenoid system upright
Electrical connection	<ul style="list-style-type: none"> <li>• cable plug for 6-7 mm ø cable (supplied as standard)</li> </ul>

# Solenoid Valve for Neutral Media and Steam up to 356°F

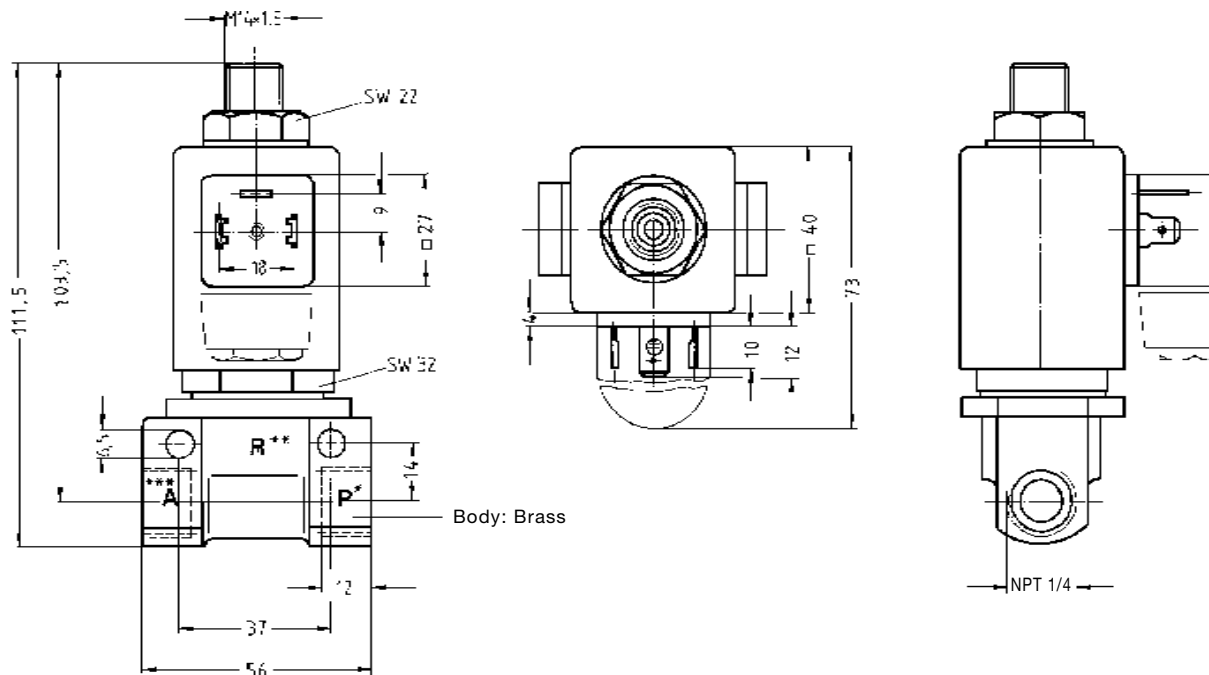
**Type 355**

## 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 (PSI) used in circuit function					
Orifice [mm]	Circuit Function	A	B	C	D	E	F
2	C	230	350	230	28	28	350
3	C	140	230	140	14	14	230
4	C	85	140	85	7	7	140

## 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

## Ordering Chart (Other Versions on Request)

Circuit Function	Orifice	Flow Rate		Port Connection	Pressure <sup>1)</sup> Range	Body Material	Seal Material	Weight	Voltage/Frequency	Item-No.	
	DN [mm]	Water Cv	Air Q/Nn [SCFM]								[PSI]
C	02.0	.13	3.53	1/4	0-230	Brass	NBR	1.32	024/60	480 656 H	
									024/DC	480 655 G	
									110/60	480 657 A	
									220/60	480 658 K	
						0-196	Brass	PTFE	1.32	024/60	480 664 H
										024/DC	480 663 G
										110/60	480 665 A
										220/60	480 666 B
	03.0	.23	7.06	1/4	0-140	Brass	NBR	1.32	024/60	480 660 R	
									024/DC	480 659 L	
									110/60	480 661 E	
									220/60	480 662 F	
					0-112	Brass	PTFE	1.32	024/60	480 668 M	
									024/DC	480 667 C	
									110/60	480 669 N	
									220/60	480 670 K	
04.0	.47	14.12	1/4	0-70	Brass	PTFE	1.32	024/60	480 672 H		
								024/DC	480 671 G		
								110/60	480 673 A		
								220/60	480 674 B		

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

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