# <u>3/2-W</u>ay, G 1/4 - G 1 1/2



# **Design/Function**

Type 340 is a servo-assisted 3-way poppet solenoid valve, which is available in the circuit functions C (normally-closed) and D (normallyopen).

The cylinder port is exhausted for circuit function C when deenergised and pressurised for circuit function D. The solenoid epoxy encapsulation efficiently dissipates the heat generated by the coil.

## Advantages/Benefits

- Body material: brass
- Isolating diaphragm between solenoid and fluid
- Lockable manual override standard
- Long service life even in non-lube conditions

## **Applications**

- · Neutral gases and liquids
- Vacuum
- Pneumatic control
- To control larger cylinders and pneumatic actuators
- Elevating- and materials handling technology



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### **Technical Data**

### **Circuit Function**

- C 3/2-way valve, when de-energized outlet port A exhausted, with 3-way pilot control
- D 3/2-way valve, when de-energized outlet port B pressurized, with 3-way pilot control

## **Body Material**

Body and seat of brass

### Specifications

Orifice	Kv-Value	QNn-Value 1)	Pressure Range <sup>2)</sup>	Weight
DN	Water	Air P-A 3)		
[mm]	[m³/h]	[l/min]	[bar]	[kg]
8	0,95	1030	0,5-16	1,0
12 4)	2,30	2500	0,5-16	1,2
12 <sup>5)</sup>	2,60	2800	0,5-16	1,2
20	6,60	7200	0,5-16	2,2
25	10,00	11000	0,5-10	2,7
40	24,00	26000	0,5-10	6,8

<sup>1)</sup> Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, <sup>2)</sup> A min. pressure differential of 0.5 bar is required to provide reliable switching of the valve. <sup>3)</sup> The configuration of port R is always one orifice larger than the other connections, which multiplies the flow rates from A to R by 1.5 to 2 times, <sup>4)</sup> G 3/8, <sup>5)</sup> G 1/2

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

#### **Operating Data (Valve)**

#### **Operating Data (Actuator)**

Seal N	Materials/Fluids Hai	ndled/Temj	o Range	Operating voltages	24, 110, 230, 240 V/50 Hz 12, 24 V/=		
NBR	Neutral fluids, e.g. c	compressed	air, town gas,				
	water, hydraulic oils	s, oils and fa	ts without additi-	Voltage tolerance	±10 %		
ves							
		0 to +90 °	C	Power consumption	AC 30 VA (inrush) 15 VA/8 W (hold)		
For mo chart (	ore detailed informatio (Leaflet-No. 1896009)	on please re	fer to resistance		DC 8W		
				Duty cycle	100 % continuously rated		
Max. ambient temperature		+55 °C					
				Cycling rate	approx. 1000 c.p.m.		
Max. v	viscosity	21 mm²/s					
-				Classification with			
Respo 120 m	nse times s		opening 25-	cable plug	IP 65		
		closing	25-120 ms	Installation / Access	sories		
Measu	red at outlet A from s	witching on	until pressure				
rise to	90 % /pressure drop	s to 10 % a	a working	Installation	as required		
of 6 ba	ar.			Electrical connection	cable plug for 7mm ø cable (supplied as standard)		
Port c	onnection	G 1/4, 3/8	, 1/2, 3/4, 1, 1 1/2				

# Solenoid Valve with Pivoted Armature Pilot Control

# Type 340

## Dimensions in mm



This dimensional drawing shows a value in circuit function C with port designations P, R and A/B (see figure on the front page).

In circuit function D, the manual override is located above the port connection A/B.

DN	A	В	С	D	E	F	G	Н	H1	J	К	L	N	0	Р
8	46	33	23	G <sup>1</sup> / <sub>4</sub>	30	34,5	12	154,5	135,5	12	SW 22	65	7	SW 22	G <sup>3</sup> / <sub>8</sub>
12	46	33	31	G <sup>3</sup> / <sub>8</sub>	34	47	12	179,5	160,5	16	SW 32	76	7	SW 27	G <sup>3</sup> / <sub>4</sub>
12	46	33	31	G <sup>1</sup> / <sub>2</sub>	34	47	14	179,5	160,5	16	SW 32	76	7	SW 27	G <sup>3</sup> / <sub>4</sub>
20	62	52	42	G <sup>3</sup> / <sub>4</sub>	48	63	16	215,5	195,5	18	SW 41	90	9	SW 36	G1
25	82	60	44	G 1	66	74,5	18	237,5	220,5	20	Ø 54	110	9	SW 41	G1 <sup>1</sup> / <sub>4</sub>
40	117	88	65	G1 <sup>1</sup> / <sub>2</sub>	93	104	22,5	274,0	274,0	26,5	Ø 78	153	13	SW 55	G 2

## Ordering Chart (Other Versions on Request)

01	0.15	Elaw Data		<b>D</b>	D			144.1.1.1	N	Order No	
Circuit	Orifice			Port	Pressure	Body	Seal-	weight	Voltage/	Order-No.	
FUNCTION		water	AIr "	Connection	Range 2	Material	Material		Frequency		
	DN	Kv-Value	QNn <sup>3</sup>								
	[mm]	[m³/h]	[l/min]	[ISO 228]	[bar]			[kg]	[V/Hz]		
С	8,0	0,95	1 030	G 1/4	0,5-16	Brass	NBR	1,0	012/=	042 506 T	
									024/50	041 318 C	
									024/=	041 317 T	
									230/50	041 329 F	
	12,0	2,30	2 500	G 1/2	0,5-16	Brass	NBR	1,2	024/50	041 334 U	
									024/=	041 333 T	
									110/50	041 340 N	
									230/50	041 346 G	
									240/50	042 277 C	
				G 3/8	0,5-16	Brass	NBR	1,2	024/50	041 351 D	
									230/50	041 353 F	
	20,0	6,60	7 200	G 3/4	0,5-16	Brass	NBR	2,2	024/=	041 354 G	
									230/50	041 361 F	
	25,0	10,0	11 000	G 1	0,5-10	Brass	NBR	2,7	024/=	041 537 Q	
									110/50	042 864 Z	
									230/50	041 364 A	
	40.0	24.0	26 000	G 1 1/2	0.5-10	Brass	NBR	6.8	024/=	042 319 E	
		,.							230/50	041 366 C	
_											
D	8.0	0.95	1 030	G 1/4	0.5-16	Brass	NBR	1.0	024/50	041 368 N	
U	0,0	0,70	1 000	0 1/1	0,010	Didoo	NBR	1,0	024/-	041 367 D	
									230/50	041 307 D	
									230/30	0413711	
	12.0	2.30	2 500	G 1/2	0.5-16	Brass	NRD	1.2	024/50	0/1 375 D	
	12,0	2,30	2 300	0 1/2	0,5-10	01055	NDK	1,2	024/50	041 373 0	
									220/50	041 374 C	
									230/50	041 380 F	
									230/50	041 386 Z	

<sup>1)</sup> Measured with 6 bar upstream pressure and 1 bar pressure drop across the valve at +20 °C, <sup>2)</sup> A min. pressure differential of 0.5 bar is required to provide reliable switching of the valve, <sup>3)</sup> Flow direction from P to A. The configuration of port R is always one orifice larger than the other connections, which multiplies the flow rate from A to R by 1.5 to 2 times.