

# FINE CONTROLS (UK) LTD



Fine Controls have been supplying process controls & instrumentation equipment since 1994, & now serves an ever expanding customer base, both in the UK & globally.

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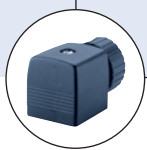
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Type 0340 can be combined with...



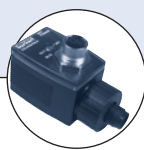
**Type 2508**

Cable plug



**Type 1078**

Timer unit



**Type 2511**

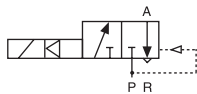
ASI cable plug

## 3/2-way Solenoid Valve for gases and liquids

- 3/2-way solenoid valve with manual override
- Seat valve with servo-piston, enlarged outlet
- Circuit function NC or NO
- For neutral gases and liquids
- Pivoted armature pilot drive, media-separated

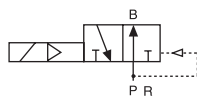
The pilot-controlled 3/2-way solenoid valve Type 0340 with smoothly operating servo-piston requires a differential pressure of 0.5 bar for complete opening and closing. A diaphragm separates the operating medium from the drive. It can be used in many ways, even for dry running. Manual override as standard.

### Circuit function C



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

### Circuit function D



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

Technical data	
<b>Orifice</b>	DN 8.0 - 40 mm
<b>Body material</b>	Brass
<b>Coil material</b>	Epoxy
<b>Coil insulation class</b>	H
<b>Seal material</b>	NBR
<b>Media</b>	Neutral media Compressed air, water, hydraulic oil
<b>Media temperature</b>	0 to +80 °C (90°C short term)
<b>Ambient temperature</b>	Max. +55 °C
<b>Viscosity</b>	Max. 21 mm <sup>2</sup> /s
<b>Voltage tolerance</b>	±10%
<b>Duty cycle</b>	100% continuous rating
<b>Electrical connection</b>	Cable plug for Ø 7 mm cable, acc. to DIN EN 175301-803 Form A (supplied as standard)
<b>Protection class</b>	IP 65 with cable plug
<b>Installation</b>	As required, preferably with actuator upright
<b>Flow rate</b>	measured at +20°C, 1 bar pressure at valve inlet and free outlet
Kv value water [m <sup>3</sup> /h]	
<b>Pressure values [bar]</b>	gauge pressures with respect to the prevailing atmospheric pressure
<b>Response times [ms]</b>	measured with water at valve outlet at 6 bar and +20°C
Opening	pressure build-up 0 to 90%
Closing	pressure decay 100 to 10%

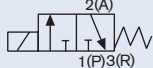
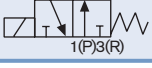
## Technical data

Orifice [mm]	Kv value Water P→A [m <sup>3</sup> /h]	Port connection A/B und P	Pressure range [bar]	Power consumption				Response times		Weight [kg]
				Inrush AC [VA]	DC [W]	Hold AC [VA/W]	DC [W]	Opening [ms]	Closing [ms]	
8	0.95	G 1/4	0.5 - 16	30	8	15/8	8	25	25	1.0
12	2.30	G 3/8	0.5 - 16	30	8	15/8	8	30	30	1.2
12	2.60	G 1/2	0.5 - 16	30	8	15/8	8	30	30	1.2
20	6.60	G 3/4	0.5 - 16	30	8	15/8	8	40	40	2.2
25	10.00	G 1	0.5 - 10	30	8	15/8	8	70	70	2.7
40	24.00	G 1 1/2	0.5 - 10	30	8	15/8	8	120	120	6.8

Port R is one orifice size larger than the ports A/B and P (see Dimensional Table). As a result, the flow A→R is increased by the factor 1.5 to 2 over the value in the table.

## Ordering chart for valves (other versions on request)

All valves with manual override, brass body, NBR seal and cable plug

Circuit function	Port connection	Orifice [mm]	Kv value water P→A [m <sup>3</sup> /h]	Pressure range [bar]	Item no. per voltage/frequency [V/Hz]		
					024/DC	024/50	230/50
<b>C</b> 3/2-way valve NC 	G 1/4	8.0	0.95	0.5 - 16	041 317	041 318	041 329
	G 3/8	12	2.3	0.5 - 16	041 350	041 351	041 353
	G 1/2	12	2.6	0.5 - 16	041 333	041 334	041 346
	G 3/4	20	6.6	0.5 - 16	041 354	041 665	041 361
	G 1	25	10.0	0.5 - 10	041 537	041 362	041 364
	G 1 1/2	40	24.0	0.5 - 10	042 319	041 365	041 366
<b>D</b> 3/2-way valve NO 	G 1/4	8.0	0.95	0.5 - 16	041 367	041 368	041 371
	G 3/8	12	2.3	0.5 - 16	047 534	041 062	041 386
	G 1/2	12	2.6	0.5 - 16	041 374	041 375	041 380

■ Port R is one orifice size larger than the ports A/B and P (see Dimensional Table). As a result, the flow A→R is increased by the factor 1.5 to 2 over the value in the table.

### **i** Further versions on request



#### Voltage

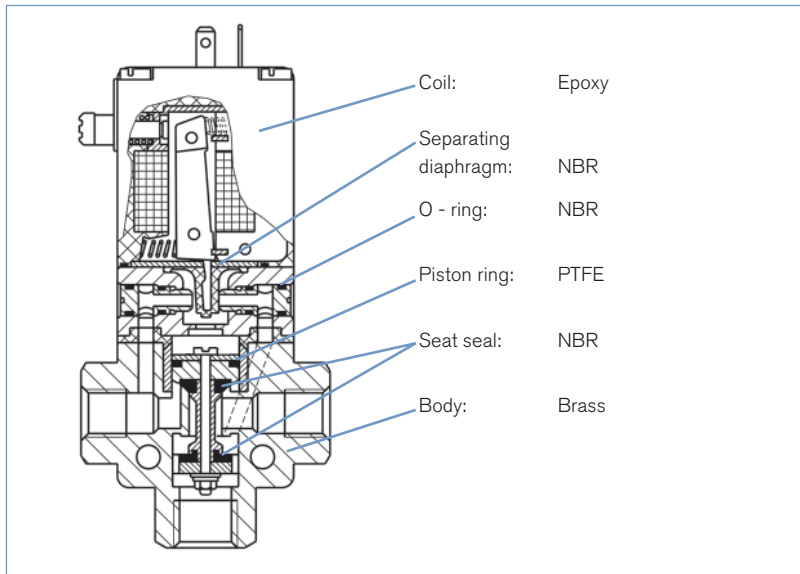
Non-standard voltages (012/DC and 110/50)



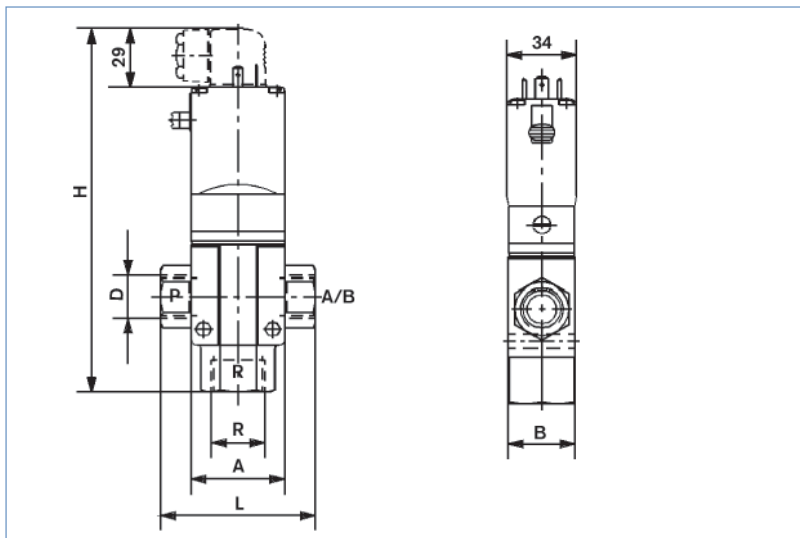
#### Approvals

ATEX-Ex / UL / UR / CSA

## Material



## Dimensions [mm]



DN	A	B	D	H	L	R
8	46	33	G 1/4	154.5	65	G 3/8
12	46	33	G 3/8	179.5	76	G 3/4
12	46	33	G 1/2	179.5	76	G 3/4
20	62	52	G 3/4	215.5	90	G 1
25	82	60	G 1	237.5	110	G 1 1/4
40	117	88	G 1 1/2	274.0	153	G 2

This dimensional drawing shows a valve 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.

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In case of special application conditions, please consult for advice.

We reserve the right to make technical changes without notice.

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