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.

We offer a full range of valve & instrumentation products & services, with our product rangerepresenting leading technologies & brands:

Flow: Flow Meters & Transmitters, Flow Switches, Flow Control Valves & Batch Control Systems

Temperature: Temperature Probes & Thermowells, Temperature ransmitters,Temperature Regulators & Temperature Displays

Level: Level Transmitters & Switches

Pressure: Pressure Gauges &Transmitters, Precision & High Pressure Regulators & I-P Converters, Volume boosters.

Precision Pneumatics: Pressure Regulators, I-P Converters, Volume Boosters, Vacuum Regulators

Valves: Solenoid & Pneumatic Valves, Control Valves & Positioners, Actuated Ball, Globe or Diaphragm Valves & Isolation Valves

Services: Repair, Calibration, Panel Build, System Design & Commissioning

FAIRCHILD
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SOLENOID VALVES
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MIDLAND-ACS
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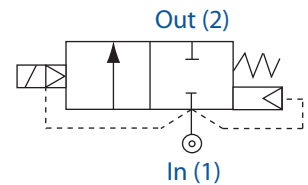Honeywell

Bourdon
Baumer Group

SOLDO
CONTROLS
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Features & Benefits

- Robust Valve Design
- Diaphragm Operation
- Fully Ported Orifices for high flow
- Choice of Valve Body Material and Seals
- Suitable for vacuum applications
- Response time up to 1" 15-60ms
- Response time up to 2" 60-120ms

Out (2)

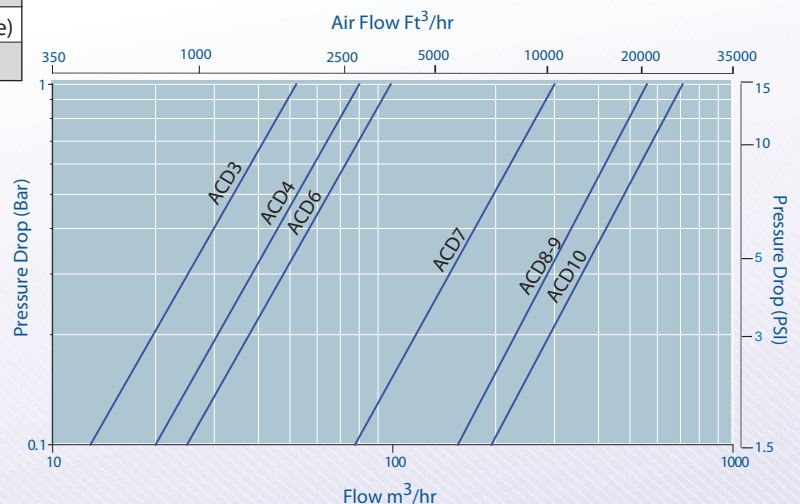In (1)

Features

| Pipe Size | Qn | OPD (Bar) | | P.Max | Orifice | |
		AC Voltages	DC Voltages	Bar	mm	Cat No.
3/8"	850	0 - 14	0 - 10.3	50	16.00	ACD3
½"	1466	0 - 14	0 - 10.3	50	16.00	ACD4
¾"	1666	0 - 14	0 - 10.3	50	16.00	ACD6
1"	4834	0 - 14	0 - 10.3	50	20.00	ACD7
1¼"	9168	0- 4	-	50	40.00	ACD8
1½"	9168	0 - 4	-	50	40.00	ACD9
2"	11669	0 - 4	-	50	40.00	ACD10
1¼"	9168	0.3 - 10	0.3 - 10	50	40.00	ACD8T
1½"	9168	0.3 - 10	0.3 - 10	50	40.00	ACD9T
2"	11669	0.3 - 10	0.3 - 10	50	40.00	ACD10T

Qn = Flow of air in litres/min @ 20°C. Input 6 bar Δp of 1 bar

Electrical Characteristics

Coil Voltage DC (=):	12v, 24v, 110v
Coil Voltage AC 50Hz (~):	24v, 110v, 120v, 230v
Coil Voltage AC 60Hz (~):	24v, 110v,120v, 220v
Voltage tolerance:	+10% or -10%
Duty Cycle:	100% ED
Protection Class (Std):	IP65 (BS EN 60529) (plug supplied as standard)
Electrical Connection (Std):	PG9 Din Connector DIN 43650/ISO 4400 (EN 175301-803) Form 'A'
Coil Insulation:	Class H (BS EN 60085) 180°C (E5 type)
Power Rating:	14.5 watts, 19VA

Flow Data

Air Flow Ft³/hr

Pressure Drop (Bar)

Pressure Drop (PSI)

Flow m³/hr

ACD3 ACD4 ACD6 ACD7 ACD8-9 ACD10

Specifications

Function:	Normally Closed, Energise to Open
Ambient Temperature:	-10°C to +50°C
Maximum Viscosity:	115 SSU
3/8 - 1" Body Material (Std):	Brass CZ122
1¼" - 2" Body Material (Std):	Bronze
Flange Tube:	Stainless Steel 303
Plunger and Top Stop:	Stainless Steel 430FR
Springs:	Stainless Steel 302
Seal Material (Std):	Nitrile (BunaN)
Connection type (Std):	BS21
Shading Coil:	Copper

How to use the Flow Chart
1. Select the required flow.
2. Note the corresponding orifices/model and pressure drop.
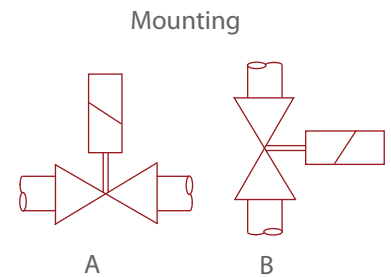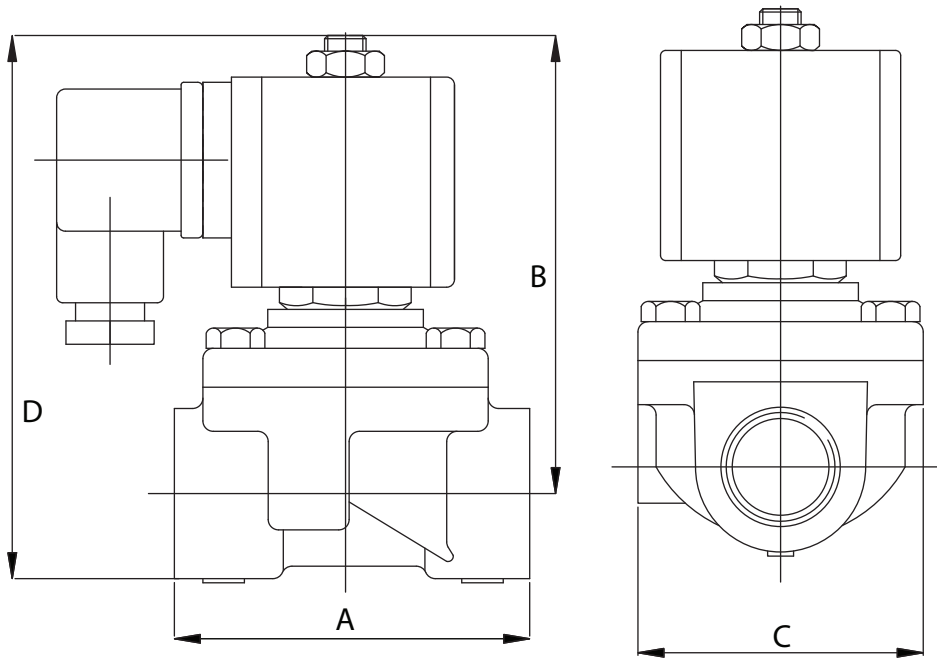3. Using orifices/model, (refer to the Features panel) for technical information

Mounting

A   B

Solenoid Coil may be
rotated to any angle.

Dimensions

Size	A	B	C	D	Weight (Kg)
3/8" - 3/4"	69.5	88	75	104	0.90
1"	85	90	75	112	1.20
1¼" - 2"	137	103	120	152	3.00 - 3.20

Dimensions given in mm

Note:
· Tested in accordance with BS EN 12266-1
· PED Compliant
· Stainless steel dimensions vary from table - consult factory

Options

Solenoid Enclosure		
Protection Class	Electrical Entry	Ambient
EExd T6 (IP67)	M20 X 1.5 Female	-50°C to +40°C
EExd T4 (IP67)	M20 X 1.5 Female	-50°C to +70°C
Exm T5 (IP65)	M16 X 1.5 Male FLYING LEAD	-20°C to +40°C

See solenoid enclosures for specific details

ANSI and PN flange connections available
Mounting bracket option available
Stainless steel valves above 1" refer to ACDLSS

Body Material
Stainless Steel 316

Seal Material	Media Temperature Range
EPDM (WRAS approved up to 1"	-50°C to +120°C
Viton	-20°C to +150°C

See corrosion reference guide and
sealing solutions for material compatibility

LED power indicator option
Slow close option

ITT

1.4

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