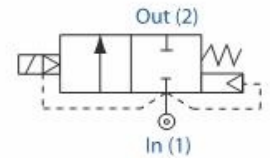


ACP Series Exd & Exm 2/2 Normally Closed



Features & Benefits

- Heavy Duty Valve Design
- Piston Operation
- Wide Temperature Range Capabilities
- Choice of Valve Body Material and Seals
- ATEX approved
- Response time up to 1" 40-100ms
- Response time up to 2" 60-1000ms

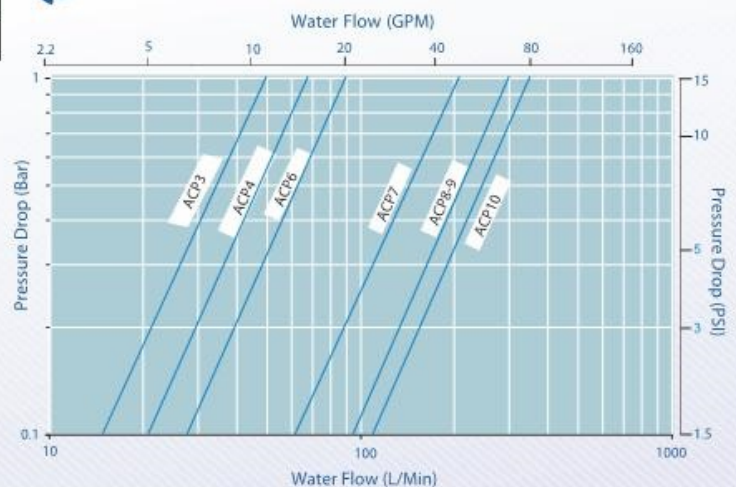


Features

Pipe Size	Kv	OPD (Bar)		P.Max (Bar)	Orifice (mm)	Cat No.
		AC Voltages	DC Voltages			
3/8"	3	0.3 - 10.3	0.3 - 10.3	50	16.00	ACP3EXM
1/2"	4.2	0.3 - 10.3	0.3 - 10.3	50	16.00	ACP4EXM
3/4"	5.4	0.3 - 10.3	0.3 - 10.3	50	16.00	ACP6EXM
1"	12.5	0.3 - 10.3	0.3 - 10.3	50	25.00	ACP7EXM
1 1/4"	18	0.3 - 10.3	0.3 - 10.3	50	30.00	ACP8EXM
1 1/2"	18	0.3 - 10.3	0.3 - 10.3	50	30.00	ACP9EXM
2"	21	0.3 - 10.3	0.3 - 10.3	50	32.00	ACP10EXM
3/8"	3	0.3 - 10.3	0.3 - 10.3	50	16.00	ACP3EXD
1/2"	4.2	0.3 - 10.3	0.3 - 10.3	50	16.00	ACP4EXD
3/4"	5.4	0.3 - 10.3	0.3 - 10.3	50	16.00	ACP6EXD
1"	12.5	0.3 - 10.3	0.3 - 10.3	50	25.00	ACP7EXD
1 1/4"	18	0.3 - 10.3	0.3 - 10.3	50	30.00	ACP8EXD
1 1/2"	18	0.3 - 10.3	0.3 - 10.3	50	30.00	ACP9EXD
2"	21	0.3 - 10.3	0.3 - 10.3	50	32.00	ACP10EXD

Kv = Flow (M³/hr) of water @ 1bar pressure drop

Flow Data



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

Electrical Characteristics

Coil Voltage DC (=):	24v, 110v
Coil Voltage AC 50Hz (~):	110v, 230v
Voltage tolerance:	+10% or -10%
Duty Cycle:	100% ED
Protection Class (Exd):	Exd IIC T6 (-50°C to +40°C) (IP67 BS EN 60529)
Protection Class (Exm):	Exm II 2 G T5 (-20°C to +40°C) (IP65 BS EN 60529)
Electrical Connection (Exd):	M20 x 1.5-6HAS 1721 I.S.O METRIC FINE
Electrical Connection (Exm):	M16 x 1.5-6H AS 1721 I.S.O METRIC FINE + 2m lead
Coil Insulation:	Class H (BS EN 60085) 180°C (E5 type)
Power Rating:	14.5 watts, 19VA

Specifications

Function:	Normally Closed, Energise to open
Ambient Temperature:	-10°C to +40°C
Maximum Viscosity:	115 SSU
Body Material 3/8" - 1":	Brass CZ122
Body Material 1 1/4" - 2":	Bronze DIN1705
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

Morrel International S.r.l.

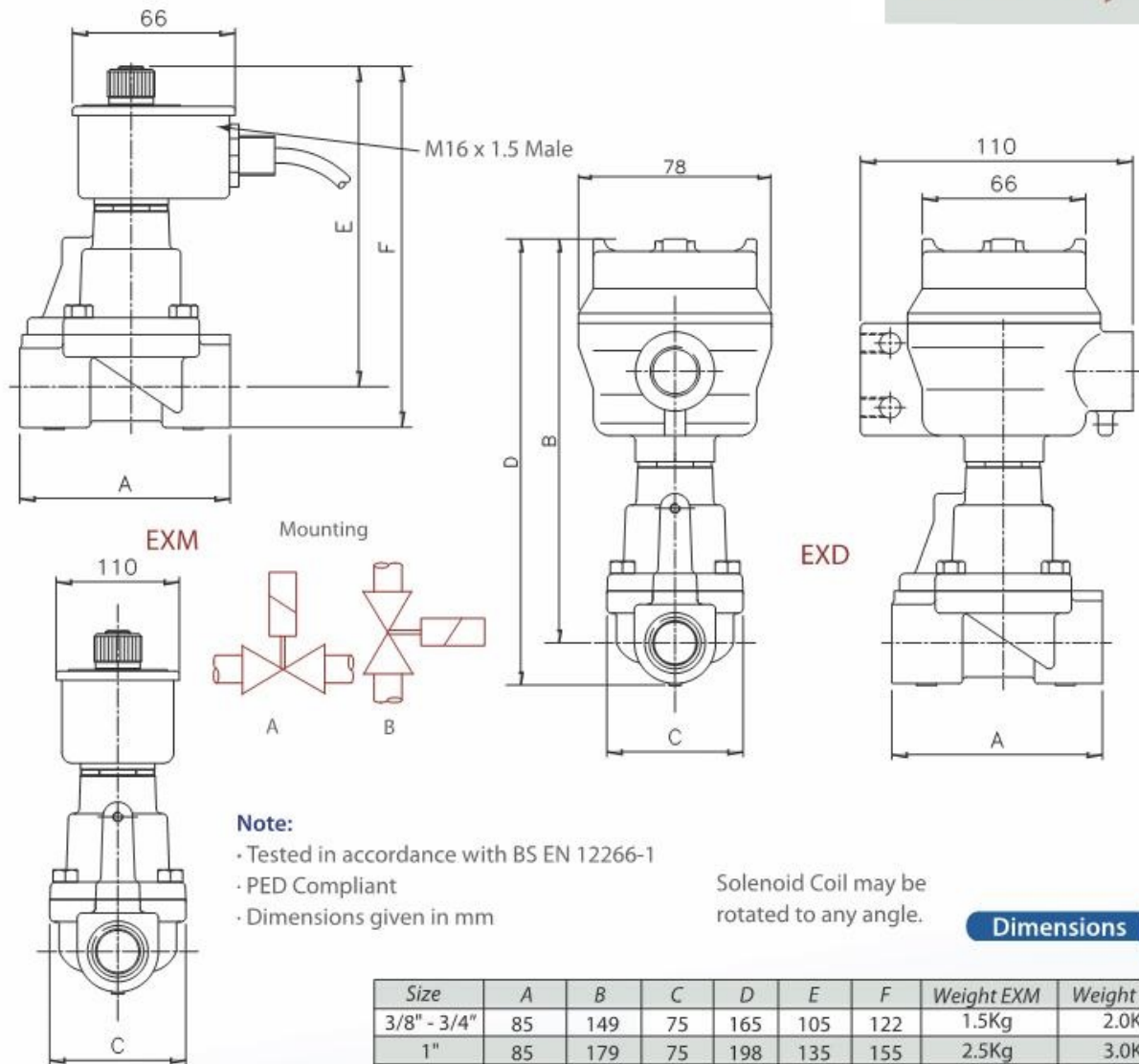
Tel. +39 023560433

Tel. +39 023560452

Fax +39 023562627

E-mail: morrel_int_srl@yahoo.it

ACP Series Exd & Exm 2/2 Normally Closed



Dimensions

Size	A	B	C	D	E	F	Weight EXM	Weight EXD
3/8" - 3/4"	85	149	75	165	105	122	1.5Kg	2.0Kg
1"	85	179	75	198	135	155	2.5Kg	3.0Kg
1 1/4" - 1 1/2"	117	177	83	252	133	209	3.2Kg	3.7Kg
2"	146	189	103	252	145	209	5.4Kg	5.9Kg

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

Body Material
Stainless Steel 316

Seal Material	Media Temperature Range
EPDM	-50°C to +120°C
Viton	-20°C to +150°C
PTFE	-200°C to +180°C

See solenoid enclosures for specific details

ANSI and PN flange connections available
Mounting bracket option available

See corrosion reference guide and
sealing solutions for material compatibility
CSA and IECEx options

Morrel International S.r.l.

Tel. +39 023560433

Tel. +39 023560452

Fax +39 023562627

E-mail: morrel_int_srl@yahoo.it