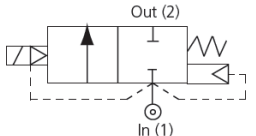


ACP Series – 2/2 Normally Closed

Specifications	
Function	Normally closed, energise to open 
Maximum Viscosity	115 SSU
3/8" - 1" Body Material (Std)	Brass CZ122
1 1/4" - 2" Body Material (Std)	Bronze
Flange Tube	Stainless Steel 303
Plunger and Top Stop	Stainless Steel 430FR
Springs	Stainless Steel 302
Seal Material (Std)	NBR
Connection Type (Std)	BS21
Shading Ring	Copper (std), Silver (stainless steel option)
Electrical Characteristics	
Coil Voltage DC (=)	12 V, 24 V, 110 V
Coil Voltage AC 50 Hz (~)	24 V, 110 V, 120 V, 230 V
Coil Voltage AC 60 Hz (~)	24 V, 110 V, 120 V, 220 V
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
Power Rating	14.5 Watts, 19 VA

Features and Benefits

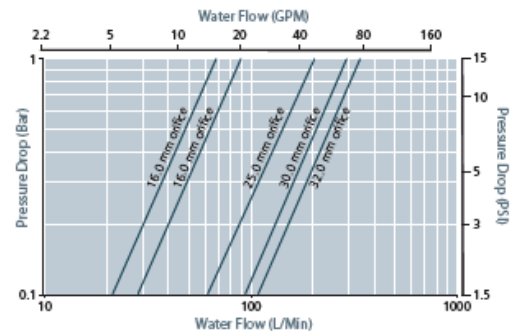
- Heavy duty valve design
- Piston operation
- Choice of valve body material and seals
- Wide temperature range capabilities
- Response time up to 1" 40 - 100 ms
- Response time up to 2" 60 - 1000 ms



Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (Bar)	P. Max Bar	Orifice (mm)	Weight (kg)
1/2"	4.9	4.2	0.3-10.3	50	16.00	1.4
3/4"	6.3	5.4	0.3-10.3		16.00	1.4
1"	14.5	12.5	0.3-10.3		25.00	2.3
1 1/4"	20.9	18	0.3-10.3		30.00	3.0
1 1/2"	20.9	18	0.3-10.3		30.00	3.0
2"	24.4	21	0.3-10.3		32.00	5.2

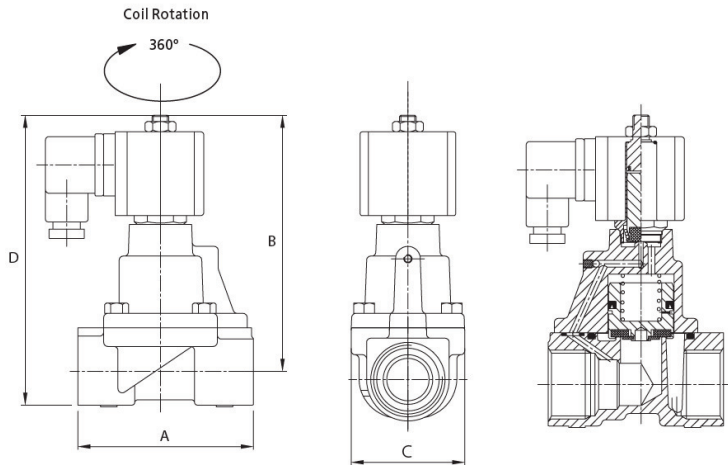
How to use the flow chart

1. Select the required flow.
2. Note the corresponding pressure drop.
3. Based on where the two points intersect select the most appropriate model.

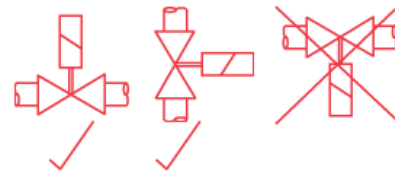


Options Available

Exd & Exm Solenoid Enclosure		Seal Material* and Media Temp. Range	Ambient Temperature Range °C		Main Valve Body Options
Protection Class			Min	Max	
EExd T6 (IP67)	See separate datasheet	NBR (-10 °C to +80 °C)	-10	50	Stainless steel body 316 (available up to 1")
EExd T4 (IP67)		EPDM (-50 °C to +120 °C)	-10	50	Oxygen Cleaning (Consult Rotork Midland for product code)
Exm T5 (IP65)		FKM (-20 °C to +150 °C)	-10	50	NPT Threads
					Stainless steel tagging



Preferred Valve Mounting Options



Dimensions

Pipe Size	A	B	C	D
1/2"	85	126	75*	150
3/4" - 1"	85	135	75 inc. plug	155
1 1/4" - 1 1/2"	117	133	82	209
2"	146	145	103	209

Dimensions given in mm

Solenoid enclosures



E5 Type enclosure protection class IP65

- External material: Glass reinforced nylon
- Electrical connection: DIN Plug to ISO 4400
- Winding insulation: Class H
- Enclosure: Conforms to IP65 when correct plug gasket is fitted as supplied

Coding chart

Main Valve Assembly

Model		Valve Body Conn. Size		Connection Type		Operation	
22	ACP	D	1/2"	1	BS21	1	AUTO
		E	3/4"	2	BSP G (1 1/4" and above)	2	MANUAL OVERRIDE
		F	1"				
		G	1 1/4"	3	NPT		
		H	1 1/2"	4	FLANGED (PN16 STD)		
		J	2"				

Body Material		Seals		Style	
1	Brass (standard on valves up to and including 1")	A	NBR	1	Standard
		B	EPDM		
		C	FKM		
2	Bronze (standard on valves above 1")				
5	316 Stainless Steel (option available up to and inc 1")				

Coil options

Enclosure	Voltage / Frequency	Electrical Connection
1 Weather proof IP65	A1	230 V / 50 Hz
	A2	110 V / 50 Hz & 120 V / 50 Hz
	A3	24 V / 50 Hz
	A7	220 V / 50 Hz
	B2	24 VDC
	B3	12 VDC
	B5	110 VDC

22	.	.	.	Z	.	.	1	-	1	..	1
----	---	---	---	---	---	---	---	---	---	----	---

Product coding example:

22D11Z1A1-1A11 - ACP Series
1/2" BS21, auto operation, brass body, NBR seals, 230 V / 50 Hz DIN Plug 9 mm.