


ACHL Series – 2/2 Normally closed

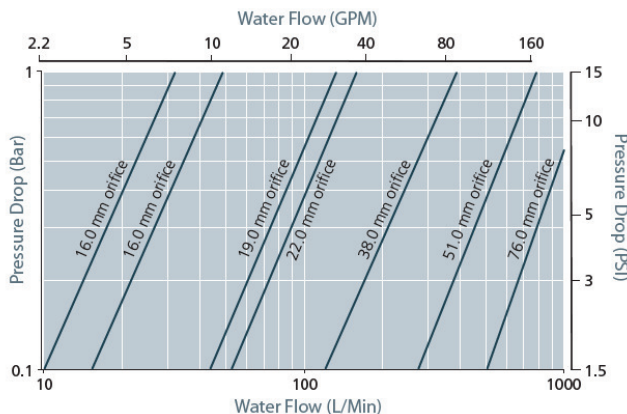
Specifications	
Function	Normally closed, energise to open, 
Maximum Viscosity	115 SSU
Body Material (Std)	Bronze
Flange Tube	Stainless Steel 303
Plunger and top stop	Stainless Steel 430FR
Springs	Stainless Steel 302
Seal Material (Std)	Metal
Connection Type (Std)	BS21
Electrical Characteristics	
Coil 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 (E5 Type)
Power Rating	14.5 Watts, 22 Watts

Notes

- If the inlet pressure on the seat area exceeds 18kg the inlet pressure must be exhausted to open the valve.
- Consult factory for flow figures for valves above 2½" Max 180 °C.

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.



Features and Benefits

- Heavy Duty Valve Design
- Manual Lever reset operation
- No Voltage Release Safety Feature
- AC version fitted with DC internal Rectifier



Pipe Size	Cv (gpm)	Kv (m³/h)	OPD (Bar)	P. Max Bar	Orifice (mm)	Weight (kg)
¾"	2.32	2	0-8.6	16	16	1.40
½"	3.48	3	0-8.6		16	1.40
¾"	9.30	8	0-8.6		19	1.90
1"	11.02	9.5	0-8.6		22	1.90
1¼"	26.68	23	0-0.3		38	3.10
1½"	26.68	23	0-3.0		38	3.10
2"	54.52	47	0-3.0		51	3.70
2½"	74.24	64	0-1.0		76	7.80
3"	89.32	77	0-1.0		76	7.80
4"²	193.72	167	0-0.8		102	40.50
6"²	383.96	331	0-0.3		152	70.50

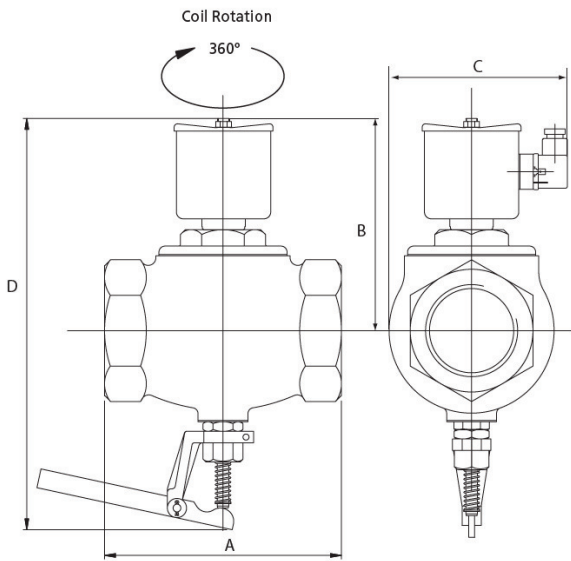
² These valves are flanged connections as standard PN10/16.

Options Available

Solenoid Enclosure	
Protection Class	
EExd T6 (IP67) up to 1"	Consult Rotork Midland for product codes
EExd T4 (IP67) up to 1"	
Exm T5 (IP65) up to 1" (24 VDC only)	

Seal Material ¹ and Media Temp. Range	Ambient Temperature Range °C	
	Min	Max
NBR (-10 °C to +80 °C)	-10	50
EPDM (-50 °C to +120 °C)	-10	50
FKM (-20 °C to +150 °C)	-10	50

Main Valve Body Options
Oxygen Cleaning (Consult Rotork Midland for product code)
NPT Threads
Stainless steel tagging



Preferred Valve Mounting Option



Dimensions

Pipe Size	A	B	C	D
3/8" - 1/2"	70	100	75 inc plug	184
3/4" - 1"	44	70	75 inc plug	196
1 1/4"	148	122	75 inc plug	256
1 1/2"	122	122	75 inc plug	256
2"	63	76	75 inc plug	233
2 1/2"	260	137	75 inc plug	273
3"	197	137	75 inc plug	273
4"	292	285	190	577
6"	356	330	260	686

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

Used on ACHL valves up and including to 1"



S50 enclosure protection class IP65

- External material: Pressed steel
 - Electrical connection: DIN Plug to ISO 4400
 - Winding insulation: Class H
 - Enclosure: Conforms to IP65 when correct plug gasket is fitted
- Used on ACHL valves 1 1/4" and above

Coding chart

Main Valve Assembly

Model	Valve Body Conn. Size	Connection Type	Operation	Body Material	Seals	Style	Enclosure	Voltage / Frequency	Electrical Connection		
15	ACHL	C 3/8" D 1/2" E 3/4" F 1" G 1 1/4" H 1 1/2" J 2" K 2 1/2" L 3" M 4" N 6"	2 BSP G 3 NPT 4 FLANGE (PN16 STD)	3 Manual reset	1 Brass (standard on valves 3/8" to 1/2") 2 Bronze (standard on valves 3/4" to 3") 4 Cast Iron (4" and above)	A NBR B EPDM C FKM H Metal	1 Standard	1 Weather proof IP65	B1 230 V / 50 Hz B4 110 V / 50 Hz B2 24 V / DC L1 230 V / 50 Hz (1 1/4" and above) L9 110 V / 50 Hz (1 1/4" and above) L6 24 VDC (1 1/4" and above)	1 Din plug 9 mm (DC Only) 3 Din plug 9 mm PR 1 220/240 110/120	
15	•	•	3	Z	•	•	1	-	1	••	•

Coil options

Product coding example:

15J23Z2H1-1L13 - ACHL Series
2" BSP, manual reset, bronze body, metal seals, 230 V / 50 Hz DIN Plug 9 mm.