

3 Way Solenoid Valves

for Air, Gas, Water, Light Hydraulic Oil,
Liquids and Steam

1/8" 1/4", 3/8" & 1/2" BSP/NPT



◀FLOCON▶ 3 way solenoid valves are direct operated with a power multiplying lever which helps to close or open the valve. They are packless and eliminate the use of stuffing boxes, sliding glands and minimise all maintenance problems. They are factory adjusted for individual flow conditions and are not interchangeable. These valves have unlimited applications and are mainly used for controlling single acting cylinders and pressure operated mechanisms. They are also used to select or divert gases and liquids.

IMPORTANT : NO MINIMUM OPERATING PRESSURE REQUIRED.

SPECIFICATIONS :

Operation :

Three types are available

- (a) Normally Closed-applies pressure to cylinder when solenoid is energised; exhausts cylinder when solenoid is de energised.
- (b) Normally open - applies pressure to cylinder when solenoid is de-energised exhausts cylinder when solenoid is energised.
- (c) Universal-may be used for normally closed, normally open, diversion or selector service by selecting proper inlet connection (refer to flow diagram)

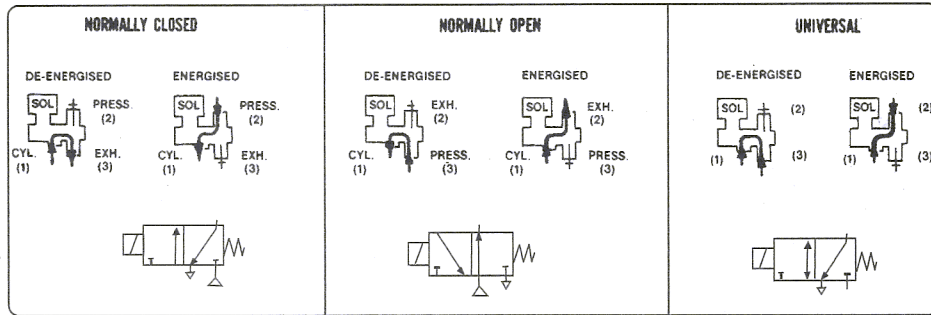
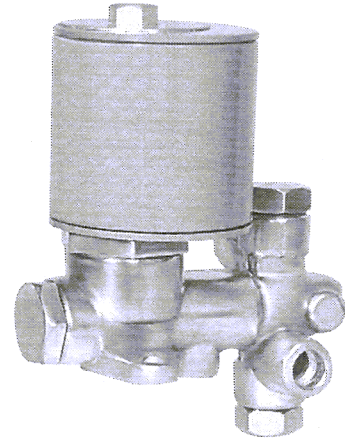
INSTALLATION :

Valves must be mounted with solenoid vertical and upright.

FEATURES :

- Direct operated
- Packless
- Complete tight shut off
- Compact size
- Silent in operation
- Solenoid capable of being turned 360°
- Can be mounted directly on pipe.

◀FLOCON▶ valves are made from quality materials and are rigorously tested for leakage and performance. Each valve is subjected to twice the rated voltage plus 1000 volts at 50 c/s for 60 seconds for insulation test.



VALVE :

- Forged Brass/Aluminium body.
- Resilient or teflon seating for tight shut off.
- Pipe connections suitable for 1/8" 1/4" 3/8" BSP/NPT. (1/2" BSP/NPT with adapters)

SOLENOID :

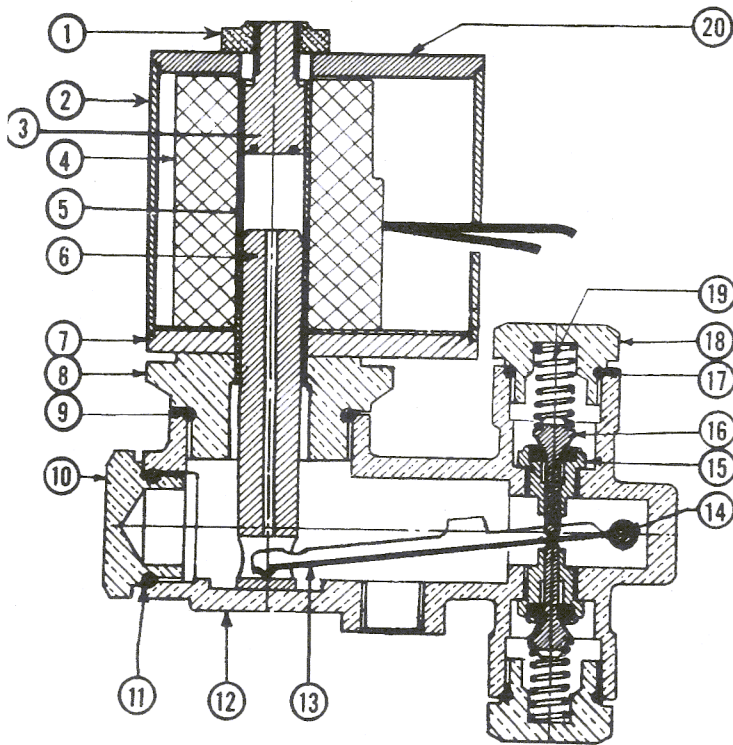
- General purpose solenoid enclosure (NEMA 1) Weather proof solenoid enclosure (NEMA 2 & 3R)
- Continuous duty moulded coil.
- Class B & F insulation.
- All solenoid parts in contact with fluid are made of series 300 & 400 stainless steel.

Coil Voltages : Standard :
24, 48, 110, 220, 440 V AC.
24, 48, 110, 220, V DC.

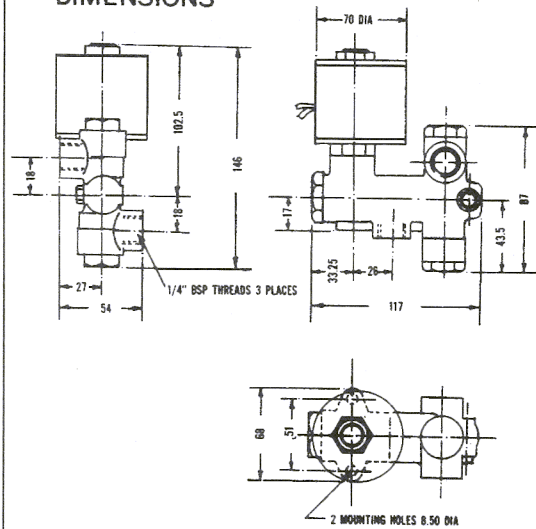
FREQUENCY OF OPERATION 650
CYCLES PER MINUTE

Valve Series	Pipe Size (Inch.)	Orifice Size (Inch.)	Maximum Operating Pressure Differential (in Kg/cm ²)						Safe Body Working Pressure (Kg/cm ²)	Max AC Fluid Temp. °C.	Cv Flow Factor	Watt Rating		Class of Insulation	VA-Holding	VA-Inrush
			Normally Closed			Universal						AC	DC			
			Normally Open			Normally Open										
			Air Gas Water Light Hydraulic Oil **	Saturated Steam *	Air Gas Water Light Hydraulic Oil **	AC	AC	DC								
FDL 301	1/8"	1/8	15	13	10	10	7	40	100	0.13	20	33	B & F	30	70	
		5/32	10	9	10	7	6	40	100	0.25	20	33	B & F	30	70	
		3/16	7	6	7	5	4	40	100	0.35	20	33	B & F	30	70	
		1/4	4	3	4	4	3	40	100	0.45	20	33	B & F	30	70	
FDL 302	1/4"	1/8	15	13	10	10	7	40	100	0.13	20	33	B & F	30	70	
		5/32	10	9	10	7	6	40	100	0.25	20	33	B & F	30	70	
		3/16	7	6	7	5	4	40	100	0.35	20	33	B & F	30	70	
		1/4	4	3	4	4	3	40	100	0.45	20	33	B & F	30	70	
FDL 303	3/8"	1/4	4	3	4	4	3	40	100	0.45	20	33	B & F	30	70	
		1/2	3	2	3	3	2	40	100	0.75	20	33	B & F	30	70	

* For Super Heated Steam consult factory. ** For higher pressure consult Factory



DIMENSIONS



ORDERING INFORMATION :

We must have Type, Pipe size
Operating Pressure, Operating
Voltage and Media handled.

NOTE :

In line with their policy of continuous product development, the manufacturer reserves the right to change specifications without notice.

SR. NO.	NAME OF THE PART	PART NO.	MATERIAL	QTY.
1.	NUT	FDL 3001	BRASS	1
2.	COIL HOUSING	FDL 3002	CRCA	1
3.	STOPPER	FDL 3003	410 STAINLESS STEEL	1
4.	COIL	FDL 3004	ENAMEL COPPER WIRE	1
5.	TUBE	FDL 3005	304 STAINLESS STEEL	1
6.	PLUNGER	FDL 3006	410 STAINLESS STEEL	1
7.	COIL HOUSING PLATE	FDL 3007	CRCA	2
8.	NUT	FDL 3008	BRASS	1
9.	'O' RING	FDL 3009	NEOPRENE	1
10.	END NUT	FDL 3010	BRASS	1
11.	'O' RING	FDL 3011	NEOPRENE	1
12.	BODY	FDL 3012	FORGED BRASS	1
13.	LEVER	FDL 3013	304 STAINLESS STEEL	1
14.	LEVER PIN	FDL 3014	304 STAINLESS STEEL	1
15.	SEAT NUT	FDL 3015	BRASS	2
16.	PLUG PIN	FDL 3016	304 STAINLESS STEEL	2
17.	'O' RING	FDL 3017	NEOPRENE	2
18.	SPRING RETAINING NUT	FDL 3018	BRASS	2
19.	SPRING	FDL 3019	304 STAINLESS STEEL	2
20.	NAME PLATE	FDL 3020	ALUMINIUM	1



IS 2148



AGENCY APPROVALS FOR **FLOCON**® SOLENOID VALVES PRECISION INSTRUMENT CO. - MUM-13.

ENGINEERS INDIA LIMITED	NEW DELHI	EIL	SOLENOID VALVES
ELECTRONICS REGIONAL TEST LABORATORY	MUMBAI	ERTL	DAMP HEAT TEST REPORT
ELECTRONICS REGIONAL TEST LABORATORY	MUMBAI	ERTL	VIBRATION TEST REPORT
INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS	MUMBAI	IDEMI	IP-65 TEST REPORT
INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS	MUMBAI	IDEMI	IP-65/67 TEST REPORT
CENTRAL MINING RESEARCH INSTITUTE	DHANBAD	CMRI	FLAME PROOF SOLENOID VALVE ENCLOSURE
CHIEF CONTROLLER OF EXPLOSIVES	NAGPUR	CCE	FLAMEPROOF SOLENOID VALVE ENCLOSURE
BUREAU OF INDIAN STANDARDS	MUMBAI	BIS	FLAMEPROOF SOLENOID VALVE ENCLOSURE
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ADVICE SERVICE & LABOUR INSTITUTE	MUMBAI	DGFASLI	FLAMEPROOF SOLENOID VALVE ENCLOSURE
GENELEC LIMITED	MUMBAI	GENELEC	IP-55

MANUFACTURERS :

**PRECISION
INSTRUMENT
CO.**

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Where the Quality goes in before the Name comes on.