

# 2-WAY SOLENOID VALVES

**Normally Closed & Normally Open operation • For Air, Gas, water light Hydraulic Oil, Hot Water and Steam •**  
**1/4" TO 3/4" BSP/NPT**

**FLOCON**

**SERIES  
FS 200**

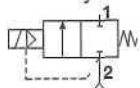
**FLOCON** two way servo operated solenoid valves have compact brass forged bodies and soft seating for complete tight shut off.

These valves are equipped with powerful solenoids that provide higher operating pressures and flow capacities than most comparable valves now available.

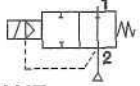
## SPECIFICATIONS :

### OPERATION :

A) Normally Closed : Valve opens when energised; closed when de-energised.



B) Normally Open: Valve closed when energised; open when de-energised.



### VALVE :

- 1) Servo operated with inlet fluid pressure.
- 2) Pipe connections suitable for 1/4", 3/8", 1/2" and 3/4" BSP / NPT.
- 3) Forged brass body.
- 4) Resilient or Teflon seating.

### SOLENOID :

- 1) General purpose solenoid enclosure NEMA TYPE 1
- 2) All solenoid parts made of 300 and 400 series stainless steel.
- 3) Continuous duty coil.
- 4) Class F insulation and moulded class B insulation
- 5) Standard Voltages : 24, 48, 110, 220, 440 V A-C.  
24, 48, 110, 220 V D-C.
- 6) Ambient: 5°C to 50°

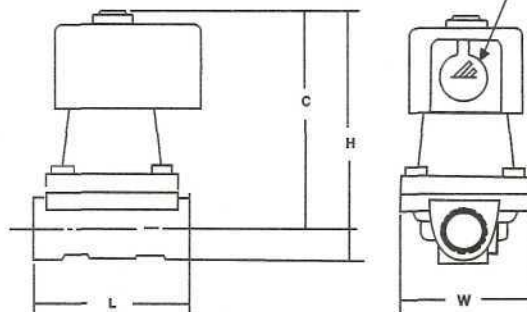
**FREQUENCY OF OPERATION**  
650 Cycles per minute

### FEATURES :

- Packless.
- Forged brass
- S.S. valve body
- Complete tight shut off.
- Compact size.
- Continuous duty moulded coil.
- Silent in operation.
- Full flow conditions.
- Solenoid capable of being turned 360°
- **FLOCON** Valves are made from quality materials and rigorously tested for leakage and performance. Each valve is subjected to twice the rated voltage plus 1,000 Volts at 50C/S for 60 seconds for Insulation Test.
- **FLOCON** valves are guaranteed for free replacement against any manufacturing defect.



### DIMENSIONS



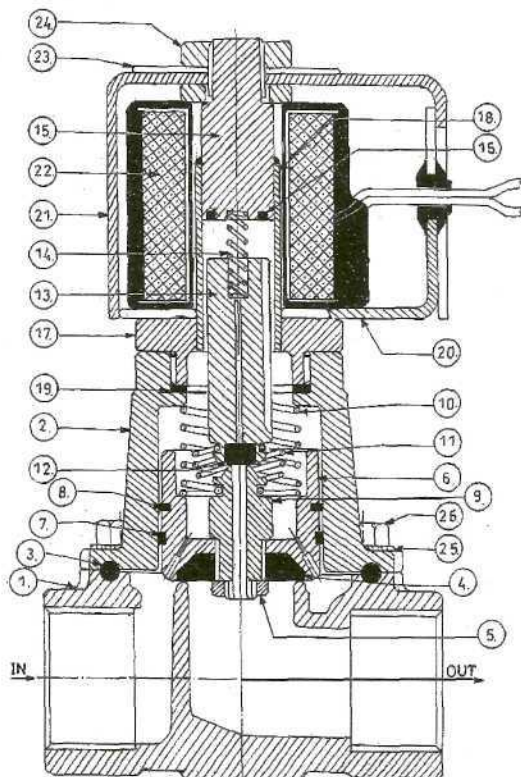
| TYPE   | PIPE SIZE | L mm | W mm | C mm | H mm |
|--------|-----------|------|------|------|------|
| FS 202 | 1/4"      | 70   | 58   | 110  | 125  |
| FS 203 | 3/8"      |      |      |      |      |
| FS 204 | 1/2"      |      |      |      |      |
| FS 206 | 3/4"      |      |      | 115  | 133  |

| VALVE TYPE | Pipe Size (inch) | Orifice size (inch) | Minimum Operating Pressure Differential (KG/CM²) | Maximum Operating Pressure Differential (KG/CM²) |    |            |    | Safe Body Working Pressure (KG/CM²) | Flow Factor CV | Maximum Fluid Temperature °C |              | WATT RATING |    | VA-INRUSH | VA-HOLDING |
|------------|------------------|---------------------|--------------------------------------------------|--------------------------------------------------|----|------------|----|-------------------------------------|----------------|------------------------------|--------------|-------------|----|-----------|------------|
|            |                  |                     |                                                  | AIR, GAS                                         |    | WATER, OIL |    |                                     |                | Class B Coil                 | Class F Coil | AC          | DC |           |            |
|            |                  |                     |                                                  | AC                                               | DC | AC         | DC |                                     |                |                              |              |             |    |           |            |
| FS 202     | 1/4              | 1/2                 | 0.3                                              | 14                                               | 8  | 9          | 7  | 20                                  | 1.8            | 95                           | 150          | 12.5        | 13 | 60        | 24         |
| FS 203     | 3/8              | 5/8                 | 0.3                                              | 14                                               | 8  | 9          | 7  | 20                                  | 3              | 95                           | 150          | 12.5        | 13 | 60        | 24         |
| FS 204     | 1/2              | 5/8                 | 0.3                                              | 14                                               | 8  | 9          | 7  | 20                                  | 4              | 95                           | 150          | 12.5        | 13 | 60        | 24         |
| FS 206     | 3/4              | 3/4                 | 0.3                                              | 8                                                | 7  | 8          | 5  | 20                                  | 5              | 95                           | 150          | 12.5        | 13 | 60        | 24         |

**FLOCON PRECISION  
INSTRUMENT  
CO.**

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 E-mail : flocon@bom3.vsnl.net.in Website : www.floconvalves.com





| SR. NO. | NAME OF PART        | PART NO.   | MATERIAL        | QTY. |
|---------|---------------------|------------|-----------------|------|
| 1.      | VALVE BODY          | FS 20 X 01 | BRASS (FORGED)  | 1    |
| 2.      | BONNET              | FS 20 X 02 | BRASS (FORGED)  | 1    |
| 3.      | 'O' RING            | FS 20 X 03 | NEOPRENE        | 1    |
| 4.      | DISC                | FS 20 X 04 | NEOPRENE/TEFLON | 1    |
| 5.      | DISC NUT            | FS 20 X 05 | S.S. 304        | 1    |
| 6.      | PISTON              | FS 20 X 06 | BRASS           | 1    |
| 7.      | RIDER RING          | FS 20 X 07 | TEFLON          | 1    |
| 8.      | PISTON RING         | FS 20 X 08 | TEFLON          | 1    |
| 9.      | SEAT                | FS 20 X 09 | S.S. 304        | 1    |
| 10.     | PISTON SPRING       | FS 20 X 10 | S.S. 304        | 1    |
| 11.     | PLUNGER SPRING      | FS 20 X 11 | S.S. 304        | 1    |
| 12.     | PLUNGER SEAT        | FS 20 X 12 | NEOPRENE/TEFLON | 1    |
| 13.     | PLUNGER             | FS 20 X 13 | S. S. 410       | 1    |
| 14.     | PLUNGER SPRING      | FS 20 X 14 | S. S. 304       | 1    |
| 15.     | STOPPER             | FS 20 X 15 | S. S. 410       | 1    |
| 16.     | SHADING RING        | FS 20 X 16 | COPPER          | 1    |
| 17.     | TUBE NUT            | FS 20 X 17 | BRASS           | 1    |
| 18.     | TUBE                | FS 20 X 18 | S. S. 304       | 1    |
| 19.     | GASKET              | FS 20 X 19 | NEOPRENE/TEFLON | 1    |
| 20.     | BASE PLATE          | FS 20 X 20 | C.R.C.A.        | 1    |
| 21.     | TOP COIL HOUSING    | FS 20 X 21 | C.R.C.A.        | 1    |
| 22.     | COIL                | FS 20 X 22 | ENAMELLED C. W. | 1    |
| 23.     | NAME PLATE          | FS 20 X 23 | ALUMINIUM       | 1    |
| 24.     | TOP NUT             | FS 20 X 24 | BRASS           | 1    |
| 25.     | SPRING WASHER       | FS 20 X 25 | SPRING STEEL    | 1    |
| 26.     | SCREWS WITH WASHERS | FS 20 X 26 | ALLOY STEEL     | 4    |

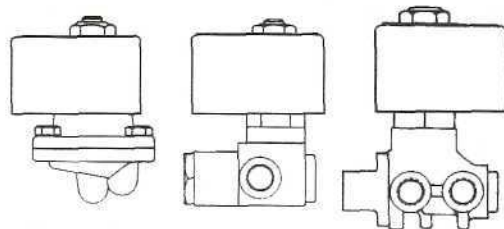
Insert Value type No. 2,3,4 or 6 in place of X for Pipe sizes 1/4", 3/8, 1/2" and 3/4" respectively.

#### ORDERING INFORMATION :

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

#### IMPORTANT :

Use Strainers with the valves. Use  
the valves only at pressure and  
voltage specified on the name plate.



#### NOTE :

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



AGENCY APPROVALS FOR FLOCON® SOLENOID VALVES PRECISION INSTRUMENT CO. - MUM-43.

| 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  |
| DIRECTORS GENERAL FACTORY ADVICE SERVICE & LABOUR INSTITUTE | MUMBAI    | DGFASLI | FLAMEPROOF SOLENOID VALVE ENCLOSURE  |
| GENELEC LIMITED                                             | MUMBAI    | GENELEC | IP-55                                |

#### MANUFACTURERS :

**PRECISION  
INSTRUMENT  
CO.**

#### WORKS :

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Where the Quality goes in before the Name comes on.