

## ALMAG FB200

### ELECTROMAGNETIC FLOW METER

#### Features

- Universal Power Supply 90 to 250V AC, Optional 24V DC
- Suitable for conductive liquids
- Full bore type
- Empty pipe indication
- Material option depending upon process data
- Local Indication through LCD Display
- Inbuilt Relay Status output (High / Low / Batch)
- HART Compatible
- Maintenance Free
- Protection Class : Electronics - IP66, Flow Tube - IP68



#### Description

**A** SICOT series ALMAG-FB200 are micro-controller based full bore type electromagnetic flow meters specially used for various industrial applications. These flow meters accurately measure the flow rate of conductive liquids and slurries in closed pipes. Due to its simple and rigid design, the flow meter is an obstruction less and maintenance-free instrument in place of conventional mechanical flow measuring devices. The use of 'Pulsed DC' technology offers highest ability and better measuring accuracy in the form of electrical signal 4-20 mA DC linearly proportional to volumetric flow. The instrument is based on Faraday's law of electromagnetic induction. A magnetic field is generated by the instrument in the flow tube. The fluid flowing through this magnetic field generates a voltage that is proportional to the flow velocity. Corresponding electrical output is provided with respect to measuring flow range.

#### Technical Specifications

|                   |  |
|-------------------|--|
| Media             | Liquids (Conductive)   |
| Conductivity      | > 5 $\mu\text{s}/\text{cm}$  |
| Viscosity         | 200 cp max   |
| Line Size         | 15 NB to 2000 NB   |
| Excitation        | Pulsed DC  |
| Type of Output    | 1) 4 to 20mA DC<br>2) 4 to 20mA DC (HART Compatible)<br>3) 4 to 20mA DC + Pulse Output / Frequency Output<br>4) 4 to 20mA DC (HART Compatible) + Pulse output / Frequency Output |
| Display           | 16 x 2 LCD - 6 Digit for Flow Rate & 8 Digit for Totalizer Flow  |
| Engineering Unit  | User Programmable ( $\text{m}^3/\text{hr}$ by default)   |
| Calibration Range | Wet Calibrated on IEC/ISO/EN17025 Accredited Calibration Rig.  |
| Accuracy          | +/- 0.5% of M.V. (For Flow Velocity > 0.5 m/s)   |
| Measuring Range   | -6 m/s to +6 m/s   |
| Linearity         | +/- 0.5% of M.V.   |

|  |  |
|--|--|
| Repeatability  | +/- 0.2% of M.V.   |
| Temperature Coefficient  | +/- 0.05% per °C   |
| Process Temperature  | -20 to 85°C max for Rubber Lining & -20 to 220°C for PTFE Lining   |
| Process Pressure   | 10 kg/cm <sup>2</sup> max (Higher on request)  |
| Material of construction   | 1) Lining - Neoprene Rubber / Hard Rubber / EPDM / PFA / PTFE / CERAMIC<br>2) Flange - MS / CS / SS316 / SS304<br>3) Electrode - SS 316L/ Hastalloy C / Platinum / Tantalum<br>4) Coil Housing - MS / SS 304 / SS316 |
| Power Supply   | Option1 : 90 - 250 V AC, 50 Hz<br>Option2 : 24 V DC  |
| Power Consumption  | < 10 VA  |
| Isolation  | 1.4 KV between Input, Output & Power Supply  |
| Response Time  | Less than 1 Sec.   |
| Electronics  | Integral / Remote  |
| Transmitter Enclosure  | Electronics : IP66, Flow Tube : IP68   |
| Process Connections  | ANSI150 flanged, as per table B 16.5 (Other On Requirement)  |
| Mounting   | In-Line Horizontal / Vertical  |
| Operating Conditions   | Temperature -20 to 75°C / Humidity 5 to 95% non condensing   |
| OPTIONAL :   |  |
| Communication Output   | 1) RS 485 supporting MODBUS RTU Protocol<br>2) RS 232<br>3) GSM Communication<br>4) Profibus<br>5) GPRS  |
| <b>Note</b> :- For process conditions other than above please consult factory. |  |

Assembly Overview

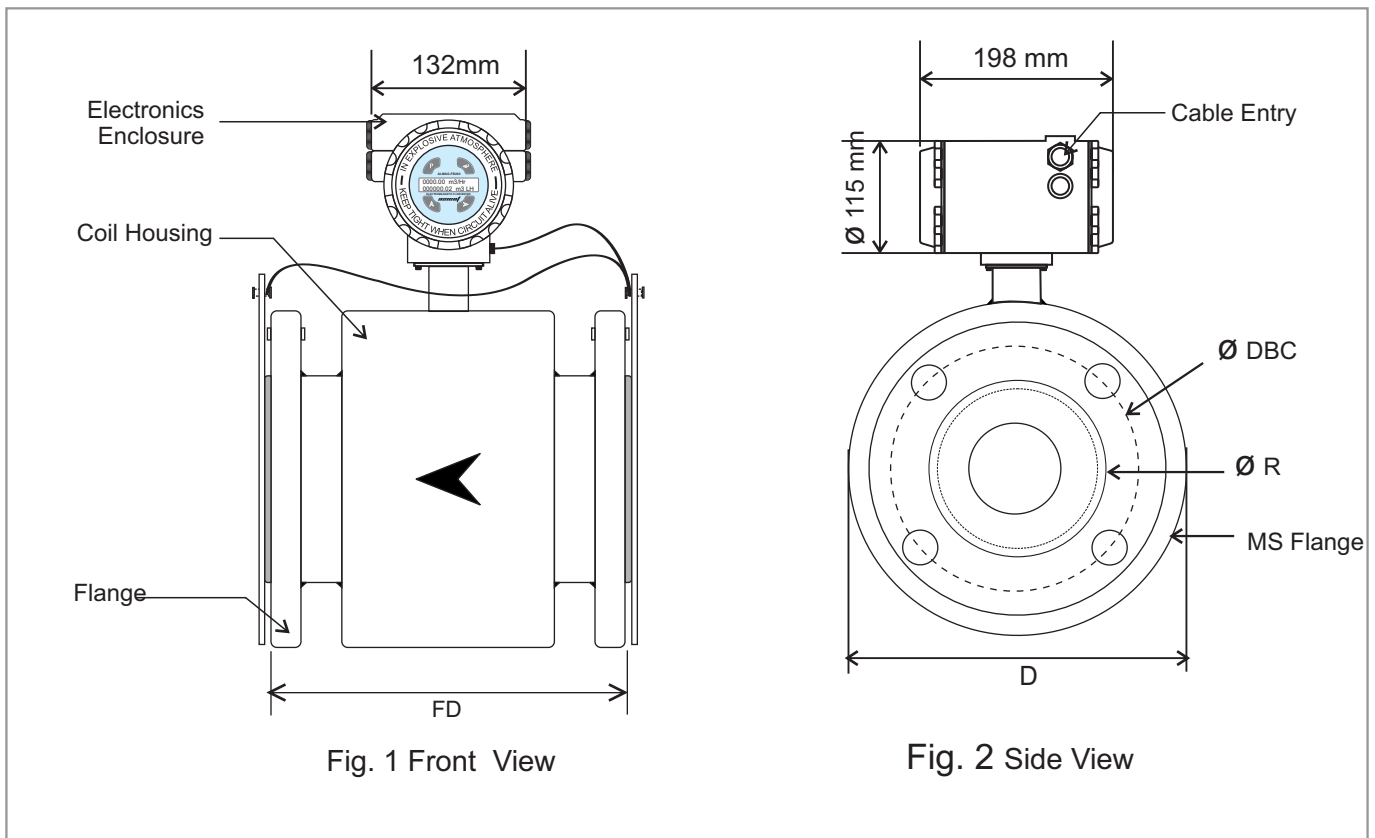


TABLE : Dimensional Details Of Flange (as Per ANSI 150 # B-16.5) & Finished Product

Refer Drg. Fig.1 & 2

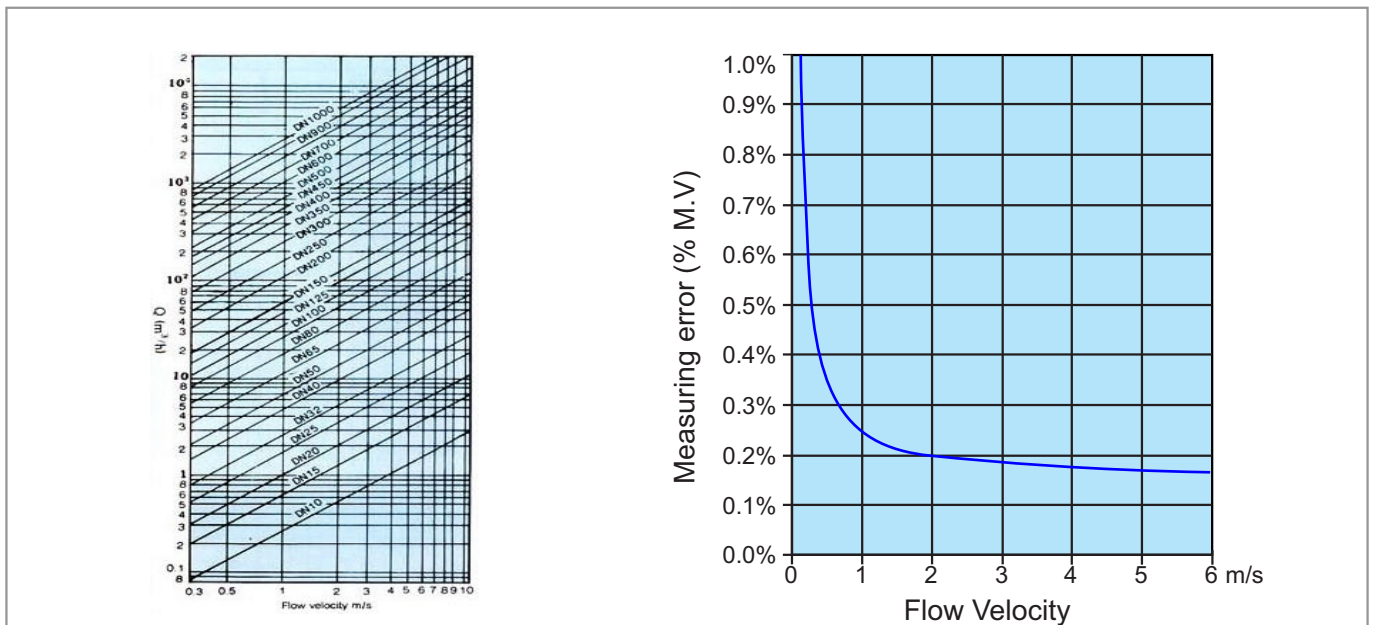
| Line Size |     | Flange Diameter D (mm) | Diameter of Raised Face R (mm) | Diameter of Bolt Hole Circle DBC (mm) | Diameter of Bolt Hole (mm) | No. of Holes | Thickness of Flange | Housing OD (mm) | Flange to Flange Distance (FD) (mm) | FD with Lining (mm) | FD With Grounding Ring (mm) | Flow Range (m <sup>3</sup> /hr) at 0.03m/s to 6m/s |         |
|-----------|-----|------------------------|--------------------------------|---------------------------------------|----------------------------|--------------|---------------------|-----------------|-------------------------------------|---------------------|-----------------------------|--|---------|
| Inch      | NB  |                        |                                |                                       |                            |              |                     |                 |                                     |                     |                             | Min.   | Max.    |
| 1/2"      | 15  | 88.9                   | 34.9                           | 60.3                                  | 15.9                       | 4            | 11.1                | 125             | 190                                 | 196                 | 204                         | 0.019  | 3.817   |
| 3/4"      | 20  | 98.4                   | 42.9                           | 69.8                                  | 15.9                       | 4            | 12.7                | 125             | 190                                 | 196                 | 204                         | 0.033  | 6.785   |
| 1"        | 25  | 107.9                  | 50.8                           | 79.4                                  | 15.9                       | 4            | 14.3                | 145             | 190                                 | 196                 | 204                         | 0.053  | 10.602  |
| 1 1/4"    | 32  | 117.5                  | 63.5                           | 88.9                                  | 15.9                       | 4            | 15.9                | 155             | 190                                 | 196                 | 204                         | 0.086  | 17.371  |
| 1 1/2"    | 40  | 127.0                  | 73                             | 98.4                                  | 15.9                       | 4            | 17.5                | 155             | 190                                 | 196                 | 204                         | 0.135  | 27.143  |
| 2"        | 50  | 152.4                  | 92.1                           | 120.6                                 | 19.0                       | 4            | 19.0                | 165             | 190                                 | 196                 | 204                         | 0.212  | 42.4115 |
| 2 1/2"    | 65  | 177.8                  | 104.8                          | 139.7                                 | 19.0                       | 4            | 22.2                | 185             | 190                                 | 196                 | 204                         | 0.358  | 71.675  |
| 3"        | 80  | 190.5                  | 127.0                          | 152.4                                 | 19.0                       | 4            | 23.8                | 205             | 190                                 | 198                 | 206                         | 0.542  | 108.573 |
| 4"        | 100 | 228.5                  | 157.2                          | 190.5                                 | 19.0                       | 8            | 23.8                | 245             | 240                                 | 248                 | 256                         | 0.848  | 169.646 |
| 5"        | 125 | 254.0                  | 185.7                          | 215.9                                 | 22.2                       | 8            | 23.8                | 265             | 240                                 | 250                 | 258                         | 1.325  | 265.071 |
| 6"        | 150 | 279.4                  | 215.9                          | 241.3                                 | 22.2                       | 8            | 25.4                | 285             | 290                                 | 300                 | 308                         | 1.9085   | 381.703 |
| 8"        | 200 | 342.9                  | 269.9                          | 298.4                                 | 22.2                       | 8            | 28.6                | 355             | 340                                 | 350                 | 358                         | 3.3929   | 678.584 |
| 10"       | 250 | 406.4                  | 323.8                          | 361.9                                 | 25.4                       | 12           | 30.2                | 405             | 440                                 | 452                 | 460                         | 5.3014   | 1060.28 |
| 12"       | 300 | 482.6                  | 381.0                          | 431.8                                 | 25.4                       | 12           | 31.8                | 485             | 490                                 | 502                 | 510                         | 7.6340   | 1526.81 |
| 14"       | 350 | 533.4                  | 412.7                          | 476.2                                 | 28.6                       | 12           | 34.9                | 555             | 540                                 | 552                 | 560                         | 10.3908  | 2078.16 |
| 16"       | 400 | 596.9                  | 469.9                          | 539.7                                 | 28.6                       | 16           | 36.5                | 605             | 590                                 | 602                 | 610                         | 13.5716  | 2714.33 |
| 18"       | 450 | 635.0                  | 533.4                          | 577.8                                 | 31.7                       | 16           | 39.7                | 605             | 590                                 | 602                 | 610                         | 17.1766  | 3435.33 |
| 20"       | 500 | 698.5                  | 584.2                          | 635.0                                 | 31.7                       | 20           | 42.9                | 630             | 590                                 | 600                 | 608                         | 21.2057  | 4241.15 |
| 24"       | 600 | 812.8                  | 692.1                          | 749.3                                 | 34.9                       | 20           | 47.6                | 755             | 590                                 | 600                 | 608                         | 30.5362  | 6107.25 |

Note : Flange to flange distance (FD) Tolerance : 1) 1/2"(15NB) to 6"(150NB) : +/-3mm 2) 8"(200NB) to 24"(600NB) : +/-5mm

- All dimensions are in 'mm'
- For dimensions of line size above 600NB, please consult factory.
- Typical mounting dimensions are for reference only.

- Wet Calibrated on IEC/ISO/EN17025 Accredited Calibration Rig.
- Flow meter should be selected with the help of Nomograph (recommended full scale velocity).
- Flow indication of 6 digit max. up to 999999.

Flow Nomograph



Applications

|                     |                      |                  |                          |
|---------------------|----------------------|------------------|--------------------------|
| Food Industry       | Chemical Industry    | Atomic Energy    | Manufacturing Industry   |
| Automation Industry | Thermal Power Energy | Process Industry | Water Treatment Industry |

Ordering Information

| 01  | 07                        | 09                 | 10                   | 22         | 23      | 24 | 50 | 51 | 52 | 53 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----|---------------------------|--------------------|----------------------|------------|---------|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 01  | Line Size                 | 01A                | 15 NB                | 01P        | 400 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01B                | 20 NB                | 01Q        | 450 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01C                | 25 NB                | 01R        | 500 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01D                | 32 NB                | 01S        | 600 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01E                | 40 NB                | 01T        | 700 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01F                | 50 NB                | 01U        | 800 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01G                | 65 NB                | 01V        | 900 NB  |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01H                | 80 NB                | 01W        | 1000 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01I                | 100 NB               | 01AA       | 1100 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01J                | 125 NB               | 01AB       | 1200 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01K                | 150 NB               | 01AC       | 1400 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01L                | 200 NB               | 01AD       | 1500 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01M                | 250 NB               | 01AE       | 1600 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01N                | 300 NB               | 01AF       | 1800 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 01O                | 350 NB               | 01AG       | 2000 NB |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 07  | Area Classification       | 07A                | Weather Proof        |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 07B                | Flame Proof          |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 09  | Electronics               | 09A                | Integral             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 09B                | Remote               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10  | Remote Cable Length       | 10A                | 2 Meter              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 10B                | 5 Meter              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 10C                | 10 Meter             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 10D                | 15 Meter             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 10E                | 25 Meter             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22  | MOC Electronics Enclosure | 22A                | Die Cast Aluminium   |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 22B                | SS316                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 22C                | ABS Plastic          |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23  | Cable Entry               | 23A                | M20 X 1.5            |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 23B                | ½" NPTF              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 23X                | Other                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24  | Power Supply              | 24A                | 90 - 250 VAC         |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 24B                | 24 VDC               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50  | Output 1                  | 50A                | 4 to 20 mA           |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 50B                | 4 to 20 mA with HART |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 50Y                | None                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 51  | Output 2                  | 51A                | Pulse                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 51B                | Freq (0 to 1 KHz)    |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 51Y                | None                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 52  | Alarm Status Output       | 52A                | 1 Alarm              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 52B                | 2 Alarm              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 52Y                | None                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 53  | Communication Output 1    | 53A                | RS 485               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 53B                | RS 232               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 53C                | GSM                  |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 53E                | Profibus             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 53F                | GPRS                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 53Y                | None                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     | 66                        | Process Connection | 66A                  | Threaded   |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           |                    | 66B                  | Flanged    |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           |                    | 66E                  | Tri Clover |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     | 67                        | MOC Flange         | 67A                  | MS         |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           |                    | 67B                  | CS         |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           |                    | 67C                  | SS316      |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           |                    | 67D                  | SS304      |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           |                    | 67E                  | PVC        |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     | 68                        | MOC Coil Housing   | 68A                  | MS         |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68B |                           |                    | SS304                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68C |                           |                    | SS316                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 68D |                           |                    | PVC                  |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 69  | Lining Material           | 69A                | Neoprene Rubber      |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69B                | Hard Rubber          |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69C                | Ebonite Rubber       |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69D                | EPDM                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69E                | PFA                  |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69F                | PTFE                 |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69G                | PU                   |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69H                | Ceramic              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 69X                | Other                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 70                 | Flange Standard      | 70A        |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  | ANSI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70B | DIN                       |                    |                      |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70C | AWWA                      |                    |                      |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70X | Other                     |                    |                      |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 71  | Flange Rating             | 71A                | ANSI 150             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 71B                | ANSI 300             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 71C                | ANSI 600             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 71D                | DIN 10               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 71E                | DIN 16               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 71F                | DIN 40               |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 71X                | Other                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 72  | MOC Flow Tube             | 72B                | SS304                |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 72C                | PVC                  |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 73A                | SS 316L              |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 73  | MOC Electrode             | 73B                | Hastelloy            |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 73C                | Platinum             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 73D                | Tantalum             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|     |                           | 73E                | Titanium             |            |         |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Note : ▪ Due to our continuous product revisions, design specification and model numbers are subject to change without notice.  
 ▪ Accuracy defined at Lab Conditions.  
 ▪ For other requirement please consult factory.

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