



# ORIFICE INTEGRAL ASSEMBLY

## Features

- Designed to be mounted to the Differential Pressure Transmitter directly.
- Available from 15 NB to 50 NB Size.
- Available in Material : C.S. & S.S.
- Eliminate the three measurement inaccuracies recorded in small orifice line installation.
- Eliminate impulse tubing, less leakage points, decrease startup time.



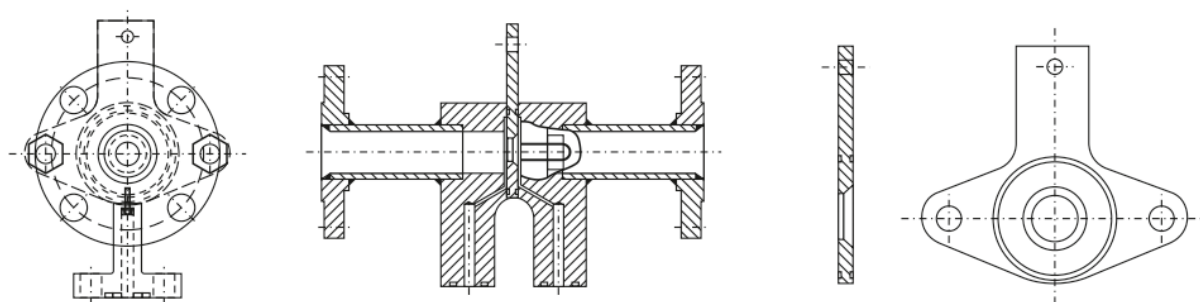
## Description

An integral orifice plate assembly is integrally mounted with the measuring instrument. It is compact and complete flow meter device without need of impulse piping. The assembly includes integral orifice plate, bodies, stud, nut & gasket bodies with socket weld or threaded end connections are available IOPA with upstream & downstream piping with flanged ends are also available.

## Technical Specifications

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| Line Size          | 15 NB to 50 NB (½" – 2" NB)                                      |
| Accuracy           | ±2% of F.S.                                                      |
| Material of Plate  | AISI 316, AISI 304, Hastelloy C, Monel, Other as per requirement |
| Material of Body   | A351-CF8M, A216-WCB, A105, A182-F316                             |
| Material of Gasket | P.T.F.E.                                                         |

## Integral Meter Run Assembly



## Ordering Information

Sample Order Code: Orifice Integral Assembly-FT15-A1-B1-C1-D1-E1-F1-G1-H1-I1-J1-K1-L1-M1-N1-O1-P1-Q1

| Parameter |                 | Code  | Value                   |  | Code  | Value | Parameter  |               | Code         | Value     |
|-----------|-----------------|-------|-------------------------|--|-------|-------|------------|---------------|--------------|-----------|
| FT        | Line Size       | FT 15 | 15NB                    |  | FT 32 | 32NB  | B          | Flange Rating | B1           | ANSI 150# |
|           |                 | FT 20 | 20NB                    |  | FT 40 | 40NB  |            |               | B2           | ANSI 300# |
|           |                 | FT 25 | 25NB                    |  | FT 50 | 50NB  |            |               | B3           | ANSI 600# |
| A         | Flange Standard | A1    | ASME B 16.36            |  |       | C     | Flange MOC | BY            | Other        |           |
|           |                 | A2    | ASME B 16.5             |  |       |       |            | C1            | A 105 C. S.  |           |
|           |                 | A3    | ASME B 16.47 Series (A) |  |       |       |            | C2            | A 182 GR F11 |           |
|           |                 | A4    | ASME B 16.47 Series (B) |  |       |       |            | C3            | A 182 GR F12 |           |
|           |                 | AY    | Other                   |  |       |       |            | C4            | A 182 GR F22 |           |
|           |                 |       |                         |  |       |       |            | C5            | A 182 GR F9  |           |



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| Parameter |                         | Code | Value                          | Parameter |                                             | Code | Value                  |
|-----------|-------------------------|------|--------------------------------|-----------|---------------------------------------------|------|------------------------|
| C         | Flange MOC              | C6   | A 182 GR F 304                 | H         | Orifice Plate Material                      | H1   | AISI 316               |
|           |                         | C7   | A 182 GR F 304L                |           |                                             | H2   | AISI 316L              |
|           |                         | C8   | A 240 GR 304                   |           |                                             | H3   | AISI 304               |
|           |                         | C9   | A 240 GR 304L                  |           |                                             | H4   | AISI 304L              |
|           |                         | C10  | A 182 GR F 316                 |           |                                             | H5   | Hastelloy C            |
|           |                         | C11  | A 182 GR F 316L                |           |                                             | H6   | Monel                  |
|           |                         | CY   | Other                          |           |                                             | HY   | Other                  |
|           |                         | CX   | NA                             |           |                                             |      |                        |
| D         | Line Schedule           | D1   | Schedule 5                     | I         | Pipe MOC                                    | I1   | A 106 GR B             |
|           |                         | D2   | Schedule 10                    |           |                                             | I2   | A 335 - GR P11         |
|           |                         | D3   | Schedule 20                    |           |                                             | I3   | A 335 - GR P22         |
|           |                         | D4   | Schedule 30                    |           |                                             | I4   | A 335 - GR P91         |
|           |                         | D5   | Schedule 40                    |           |                                             | I5   | A 312 - TP 304         |
|           |                         | D6   | Schedule 60                    |           |                                             | I6   | A 312 - TP 316         |
|           |                         | D7   | Schedule 80                    |           |                                             | I7   | A 312 - TP 304L        |
|           |                         | D8   | Schedule 100                   |           |                                             | I8   | A 312 - TP 316L        |
|           |                         | D9   | Schedule 120                   |           |                                             | IY   | Other                  |
|           |                         | D10  | Schedule 140                   |           |                                             | IX   | NA                     |
|           |                         | D11  | Schedule 160                   | J1        | 750 mm                                      |      |                        |
|           |                         | D12  | Schedule STD                   | JY        | Other                                       |      |                        |
|           |                         | D13  | Schedule XS                    | K1        | 250 mm                                      |      |                        |
|           |                         | D14  | Schedule XXS                   | KY        | Other                                       |      |                        |
|           |                         | D15  | Schedule 5S                    | L         | MOC of Stud                                 | L1   | ASTM A 193 GR B7       |
|           |                         | D16  | Schedule 10S                   |           |                                             | L2   | ASTM A 193 GR B8       |
|           |                         | D17  | Schedule 40S                   |           |                                             | LY   | Other                  |
|           |                         | D18  | Schedule 80S                   |           |                                             | LX   | NA                     |
|           |                         | D19  | Schedule Low / A Class         | M         | MOC of Nut                                  | M1   | ASTM A 194 2H          |
|           |                         | D20  | Schedule Medium / B Class      |           |                                             | M2   | ASTM A 194 GR 8        |
|           |                         | D21  | Schedule Heavy / C Class       |           |                                             | MY   | Other                  |
|           |                         | MX   | NA                             |           |                                             |      |                        |
| E         | MOC of Gasket           | DY   | Other                          | N         | IOPA Block Material                         | N1   | A351-CF8M              |
|           |                         | E1   | C.A.F.                         |           |                                             | N2   | A216-WCB               |
|           |                         | E2   | S.W.G SS 304 with Graf. filler |           |                                             | NY   | Other                  |
|           |                         | E3   | PTFE                           | O         | Integral Orifice Assembly Type              | O1   | Integral Block         |
|           |                         | E4   | IS2712 GR W/3                  |           |                                             | O2   | Integral Meter         |
|           |                         | E5   | S.W.G SS 316 With Graf. filler |           |                                             | OY   | Other                  |
|           |                         | EY   | Other                          | P         | Orifice Plate Type                          | P1   | Concentric Square Edge |
| EX        | NA                      | P2   | Eccentric                      |           |                                             |      |                        |
| F1        | 3.18 mm                 | P3   | Quarter Of Circle              |           |                                             |      |                        |
| F2        | 4.0 mm                  | P4   | Segmental                      |           |                                             |      |                        |
| F3        | 6.35 mm                 | PY   | Other                          |           |                                             |      |                        |
| FY        | Other                   | Q1   | WNRF                           |           |                                             |      |                        |
| F         | Orifice Plate Thickness | G1   | Corner                         | Q         | Integral Orifice Plate Assembly Flange Type | Q2   | SORF                   |
|           |                         | GY   | Other                          |           |                                             | Q3   | RTJ                    |
|           |                         | GX   | NA                             |           |                                             | Q4   | Threaded               |
|           |                         | QY   | Other                          |           |                                             |      |                        |
|           |                         | QX   | NA                             |           |                                             |      |                        |

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• To be used for industrial applications.

• Accuracy defined at Lab Conditions.

• For other requirement please consult factory.

• This product is meant for laboratory/Process application only & not for custody transfer application.

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