The Series TE Orifice Plate Flowmeter offers one-piece PTFE construction similar to the OP and PE Series orifice plates, which incorporate a unique holder or carrier ring containing metering taps and integral gaskets. Available for line sizes from 1/2” to 24”, the Series TE orifice plate can be used with gases, liquids, corrosive, and high-temperature fluids. The Series TE can be easily installed by slipping the unit between standard flanges (orifice flanges are not required). The Series TE was designed for use anywhere there is an application for a conventional flow orifice plate. It can also be used in place of other primary differential producers for efficiency and cost effectiveness.

**FEATURES**
- Excellent chemical resistance
- Weather resistant
- Flame retardant (without factory gaskets)
- Low friction (minimum wear)
- Orifice plate thickness 1/4” offering greater stability

**SPECIFICATIONS**
- **Service:** Air and compatible gases, corrosives, high temperature fluids, and liquids.
- **Wetted Material:** Monolithic (single piece) constructed entirely of PTFE, Buna-N gaskets.
- **Accuracy:** ±0.6% full scale flow (Beta = .2-.6) ±0.7% for Beta greater than .6.
- **Temperature:** -40 to 200°F (-40 to 93.3°C).
- **Pressure:** 150 psi (10 bar) max.
- **Head Loss:** 1-Beta ratio\(^2\) eg: 1 - 0.7\(^2\) = 1 - 0.49 = 51% of the d.p.
- **Line Sizes:** 1/2” to 24”, special and non-standard sizes available.
- **Process Connections:** 1/4” female NPT.
- **Installation:** Standard flange 125#/150# rating.
- **Pipe Requirements:** General requirements 10 diameter upstream and 5 diameter downstream.
- **Weight:** Varies with line size. See chart.
**Series TE Orifice Plate Flowmeter**

**Capacity Structure**
- Material PTFE - Gaskets Buna-N
- Based on 70°F, 14.7 psia (base conditions)
- Beta value based on Std Sch pipe I.D.

**Beta value based on Std Sch pipe I.D.**
- TE-T-3
- TE-S-3
- TE-R-2
- TE-P-1
- TE-L-2
- TE-K-3
- TE-K-1
- TE-J-2
- TE-F-2
- TE-F-1
- TE-E-3
- TE-C-3
- TE-B-3
- TE-B-1

**Material PTFE - Gaskets Buna-N**

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (lb)</th>
<th>Line Size</th>
<th>Bore</th>
<th>Beta</th>
<th>Inch d/p W/C</th>
<th>Inch d.p. W/C</th>
<th>Inc Flow in GPM at 14.7 psia (0 psig)</th>
<th>at 20 psig</th>
<th>at 100 psig</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE-A-1</td>
<td>1.00</td>
<td>1/2&quot;</td>
<td>0.200&quot;</td>
<td>0.3</td>
<td>20</td>
<td>20</td>
<td>0.62</td>
<td>2.35</td>
<td>3.63</td>
</tr>
<tr>
<td>TE-A-2</td>
<td>1.00</td>
<td>1/2&quot;</td>
<td>0.310&quot;</td>
<td>0.5</td>
<td>100</td>
<td>100</td>
<td>3.44</td>
<td>12.21</td>
<td>19.58</td>
</tr>
<tr>
<td>TE-A-3</td>
<td>1.00</td>
<td>1/2&quot;</td>
<td>0.430&quot;</td>
<td>0.69</td>
<td>200</td>
<td>320</td>
<td>13.00</td>
<td>32.77</td>
<td>96.15</td>
</tr>
</tbody>
</table>

**Weight**
- TE-B-1: 1.00
- TE-B-2: 1.00
- TE-B-3: 1.00
- TE-C-1: 1.00
- TE-C-2: 1.00
- TE-C-3: 1.00

**Beta**
- TE-D-1: 1.25
- TE-D-2: 1.25
- TE-D-3: 1.25

**Inch d/p W/C**
- TE-E-1: 2.00
- TE-E-2: 2.00
- TE-E-3: 2.00

**Inc Flow in GPM at 14.7 psia (0 psig)**
- TE-F-1: 2.20
- TE-F-2: 2.20
- TE-F-3: 2.20

**Inc Flow in GPM at 20 psig**
- TE-G-1: 2.20
- TE-G-2: 2.20
- TE-G-3: 2.20

**Inc Flow in GPM at 100 psig**
- TE-H-1: 2.00
- TE-H-2: 2.00
- TE-H-3: 2.00

**Inc Flow in GPM at 20 psig**
- TE-J-1: 3.00
- TE-J-2: 3.00
- TE-J-3: 3.00

**Inc Flow in GPM at 100 psig**
- TE-K-1: 3.00
- TE-K-2: 3.00
- TE-K-3: 3.00

**Inc Flow in GPM at 20 psig**
- TE-L-1: 4.00
- TE-L-2: 4.00
- TE-L-3: 4.00

**Inc Flow in GPM at 100 psig**
- TE-M-1: 4.00
- TE-M-2: 4.00
- TE-M-3: 4.00

**Inc Flow in GPM at 20 psig**
- TE-N-1: 4.00
- TE-N-2: 4.00
- TE-N-3: 4.00

**Inc Flow in GPM at 100 psig**
- TE-O-1: 5.00
- TE-O-2: 5.00
- TE-O-3: 5.00

**Inc Flow in GPM at 20 psig**
- TE-P-1: 6.00
- TE-P-2: 6.00
- TE-P-3: 6.00

**Inc Flow in GPM at 100 psig**
- TE-Q-1: 6.00
- TE-Q-2: 6.00
- TE-Q-3: 6.00

**Inc Flow in GPM at 20 psig**
- TE-R-1: 8.00
- TE-R-2: 8.00
- TE-R-3: 8.00

**Inc Flow in GPM at 100 psig**
- TE-S-1: 8.00
- TE-S-2: 8.00
- TE-S-3: 8.00

**Inc Flow in GPM at 20 psig**
- TE-T-1: 8.00
- TE-T-2: 8.00
- TE-T-3: 8.00

**Inc Flow in GPM at 100 psig**
- TE-U-1: 8.00
- TE-U-2: 8.00
- TE-U-3: 8.00

**Flow at 14.7 psia (0 psig)**
- TE-V-1: 8.00
- TE-V-2: 8.00
- TE-V-3: 8.00

**Flow at 20 psig**
- TE-W-1: 8.00
- TE-W-2: 8.00
- TE-W-3: 8.00

**Flow at 100 psig**
- TE-X-1: 8.00
- TE-X-2: 8.00
- TE-X-3: 8.00

**Note:** Differential pressure values should be less than 50% of the inlet absolute pressure.

**CALL TO ORDER:**
- U.S. Phone 219 879-8000
- U.K. Phone (+44) (0)1494-461707
- Asia Pacific Phone 61 2 4272-2055

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0.3% of 0.09 lb.

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