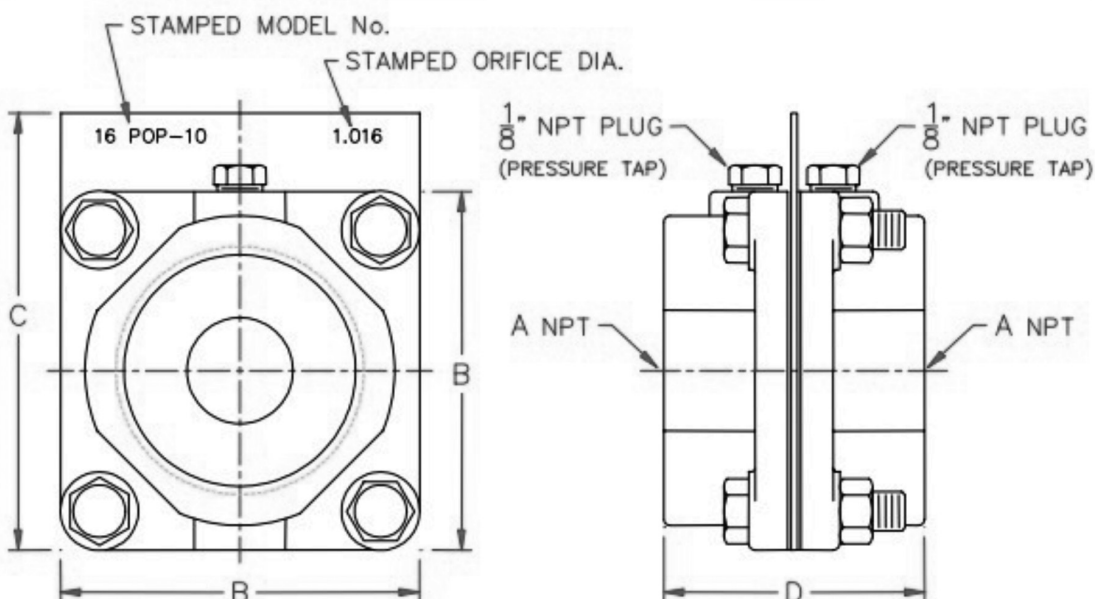


## Dimensions



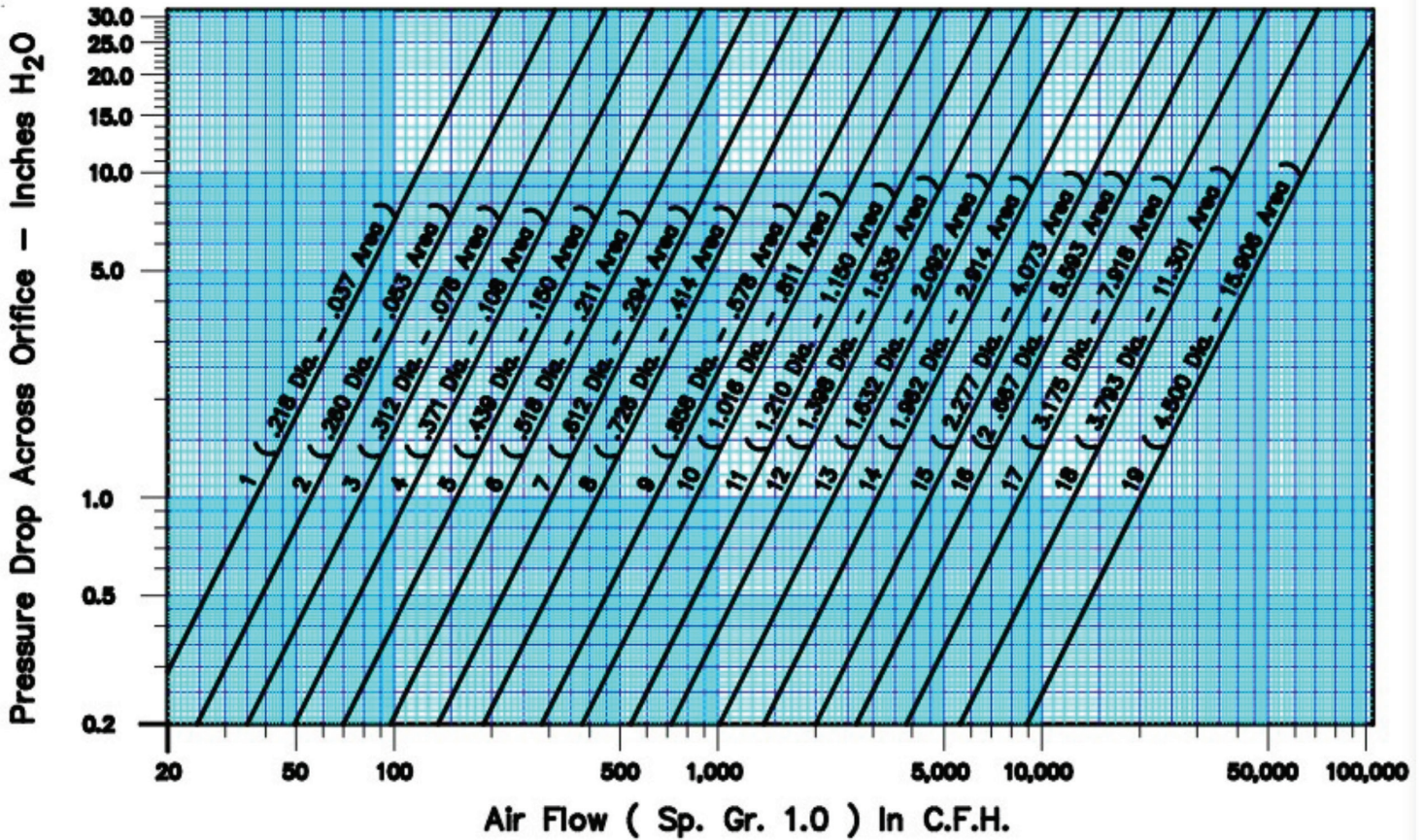
| Model # Orifice Flow Meter |              | Model # Orifice Plate Only |             | A     | B      | C      | D     | Weigh |      |
|----------------------------|--------------|----------------------------|-------------|-------|--------|--------|-------|-------|------|
| Steel                      | Stainless    | Steel                      | Stainless   |       |        |        |       | lb    | kg   |
| 6 POP-XX                   | 6 POP-SS-XX  | 6 OP-XX                    | 6 OP-SS-XX  | 3/4   | 2-5/16 | 3-3/16 | 1-5/8 | 1.4   | 0.6  |
| 8 POP-XX                   | 8 POP-SS-XX  | 8 OP-XX                    | 8 OP-SS-XX  | 1     | 2-5/16 | 3-3/16 | 1-5/8 | 1.2   | 0.5  |
| 10 POP-XX                  | 10 POP-SS-XX | 10 OP-XX                   | 10 OP-SS-XX | 1-1/4 | 3      | 3-3/4  | 2-1/2 | 2.7   | 1.2  |
| 12 POP-XX                  | 12 POP-SS-XX | 12 OP-XX                   | 12 OP-SS-XX | 1-1/2 | 3      | 3-3/4  | 2-1/2 | 2.5   | 1.1  |
| 16 POP-XX                  | 16 POP-SS-XX | 16 OP-XX                   | 16 OP-SS-XX | 2     | 3-7/16 | 4-3/16 | 2-1/2 | 3.2   | 1.4  |
| 20 POP-XX                  | 20 POP-SS-XX | 20 OP-XX                   | 20 OP-SS-XX | 2-1/2 | 4-3/8  | 5-1/8  | 3-1/8 | 7.6   | 3.5  |
| 24 POP-XX                  | 24 POP-SS-XX | 24 OP-XX                   | 24 OP-SS-XX | 3     | 4-3/8  | 5-1/8  | 3-1/8 | 5.4   | 2.4  |
| 32 POP-XX                  | 32 POP-SS-XX | 32 OP-XX                   | 32 OP-SS-XX | 4     | 6      | 6-3/4  | 3-3/8 | 11.6  | 5.3  |
| 48 POP-XX                  | 48 POP-SS-XX | 48 OP-XX                   | 48 OP-SS-XX | 6     | 8      | 8-3/4  | 3-3/4 | 22.3  | 10.1 |

Note: All dimensions are in inches.

## Orifice Plate Table

| Model # Orifice Plate |             | Pipe Size | Orifice plates listed are the minimum to maximum diameters recommended per pipe size. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-----------------------|-------------|-----------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Steel                 | Stainless   |           | 01  | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 6 OP-XX               | 6 OP-SS-XX  | 3/4       | 01  | 02 | 03 | 04 | 05 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 8 OP-XX               | 8 OP-SS-XX  | 1         | 01  | 02 | 03 | 04 | 05 | 06 |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 10 OP-XX              | 10 OP-SS-XX | 1-1/4     |   |    | 03 | 04 | 05 | 06 | 07 | 08 |    |    |    |    |    |    |    |    |    |    |    |
| 12 OP-XX              | 12 OP-SS-XX | 1-1/2     |   |    |    | 04 | 05 | 06 | 07 | 08 | 09 |    |    |    |    |    |    |    |    |    |    |
| 16 OP-XX              | 16 OP-SS-XX | 2         |   |    |    |    | 06 | 07 | 08 | 09 | 10 |    |    |    |    |    |    |    |    |    |    |
| 20 OP-XX              | 20 OP-SS-XX | 2-1/2     |   |    |    |    |    | 08 | 09 | 10 | 11 | 12 |    |    |    |    |    |    |    |    |    |
| 24 OP-XX              | 24 OP-SS-XX | 3         |   |    |    |    |    |    |    | 10 | 11 | 12 | 13 |    |    |    |    |    |    |    |    |
| 32 OP-XX              | 32 OP-SS-XX | 4         |   |    |    |    |    |    |    |    |    | 12 | 13 | 14 | 15 |    |    |    |    |    |    |
| 48 OP-XX              | 48 OP-SS-XX | 6         |   |    |    |    |    |    |    |    |    |    |    |    |    | 14 | 15 | 16 | 17 | 18 |    |

# Orifice Flow Meters



### Specific Gravity Factors

|                    |      |     |     |      |      |
|--------------------|------|-----|-----|------|------|
| Specific Gravity   | 0.07 | 0.2 | 0.4 | 0.5  | 0.6  |
| Multiplying Factor | 3.8  | 2.2 | 1.6 | 1.4  | 1.3  |
| Specific Gravity   | 0.7  | 0.8 | 1.0 | 1.5  | 2.0  |
| Multiplying Factor | 1.2  | 1.1 | 1.0 | 0.82 | 0.71 |

### Pressure Factors

|                       |      |      |      |      |
|-----------------------|------|------|------|------|
| Inlet Pressure - psig | 1.0  | 2.0  | 3.0  | 4.0  |
| Multiplying Factor    | 1.03 | 1.07 | 1.10 | 1.13 |
| Inlet Pressure - psig | 5.0  | 6.0  | 7.0  | 8.0  |
| Multiplying Factor    | 1.16 | 1.19 | 1.21 | 1.24 |

### Temperature Factors

|                            |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Inlet Gas Temperature (°F) | 60°   | 100°  | 150°  | 200°  |
| Multiplying Factor         | 1.0   | 0.963 | 0.924 | 0.887 |
| Inlet Gas Temperature (°F) | 250°  | 300°  | 400°  | 500°  |
| Multiplying Factor         | 0.856 | 0.826 | 0.778 | 0.736 |

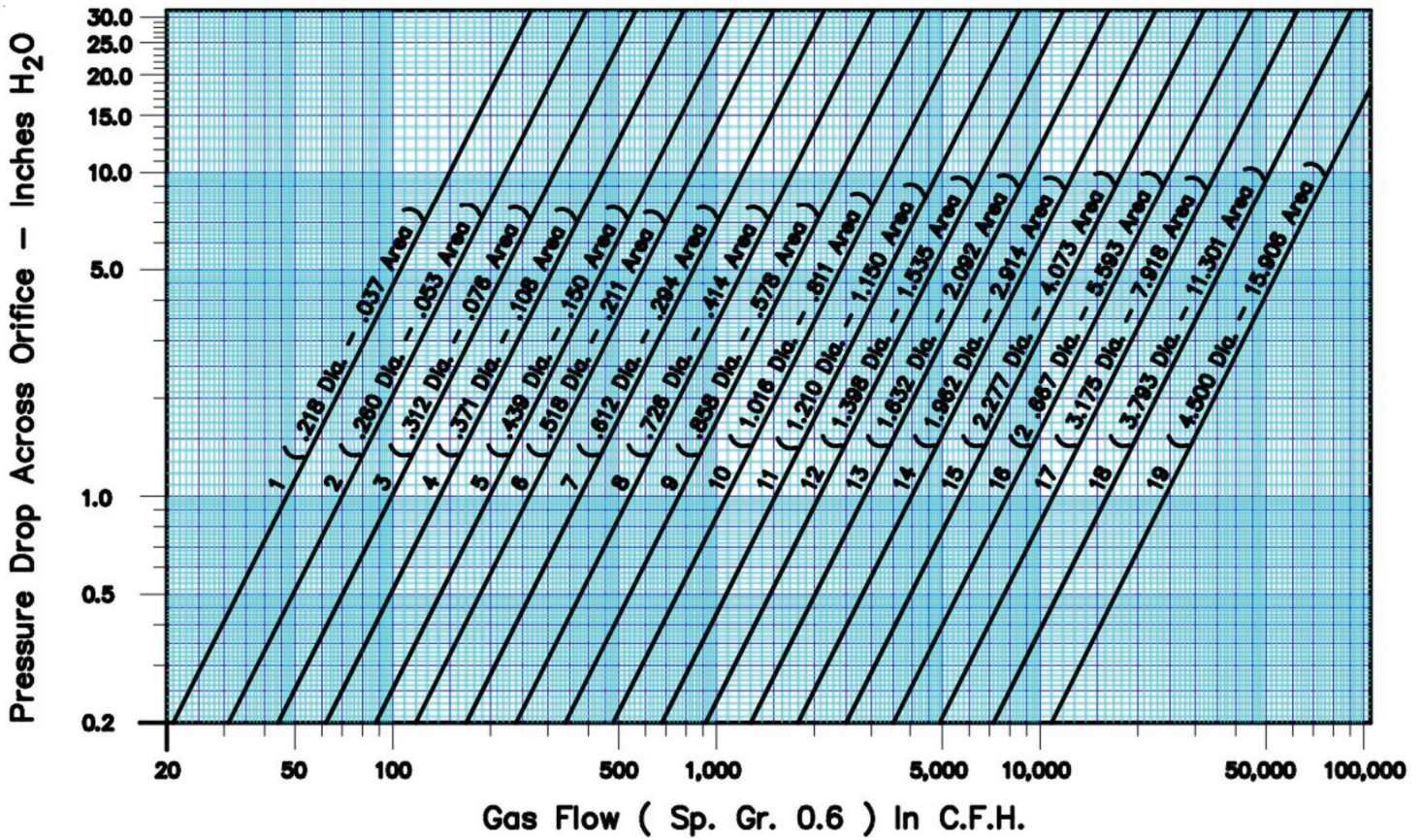
Note: Flow vs. Pressure Drop Curves are based on air flows (sp.gr = 1.0) at zero-line pressure and 60° F temperature.



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# Orifice Flow Meters



### Pressure Factors

|                       |      |      |      |      |       |
|-----------------------|------|------|------|------|-------|
| Inlet Pressure - psig | 0.0  | 1.0  | 2.0  | 3.0  | 4.0   |
| Multiplying Factor    | 1.0  | 1.03 | 1.07 | 3.0  | 1.10  |
| Inlet Pressure - psig | 5.0  | 6.0  | 7.0  | 8.0  | 9.0   |
| Multiplying Factor    | 1.16 | 1.19 | 1.21 | 1.24 | 1.27  |
| Inlet Pressure - psig | 10.0 | 25.0 | 50.0 | 75.0 | 100.0 |
| Multiplying Factor    | 1.30 | 1.64 | 2.10 | 2.47 | 2.79  |

### Temperature Factors

|                            |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|
| Inlet Gas Temperature (°F) | 60°   | 100°  | 150°  | 200°  | 250°  |
| Multiplying Factor         | 1.0   | 0.963 | 0.924 | 0.887 | 0.856 |
| Inlet Gas Temperature (°F) | 300°  | 400°  | 500°  | 600°  | 700°  |
| Multiplying Factor         | 0.826 | 0.778 | 0.736 | 0.700 | 0.670 |

Note: Flow vs. Pressure Drop Curves are based on gas flows (sp.gr = 1.0) at zero-line pressure and 60° F temperature.



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