

# TURBINE FLOWMETERS BY HOFFER

The Turbine Flowmeter Company



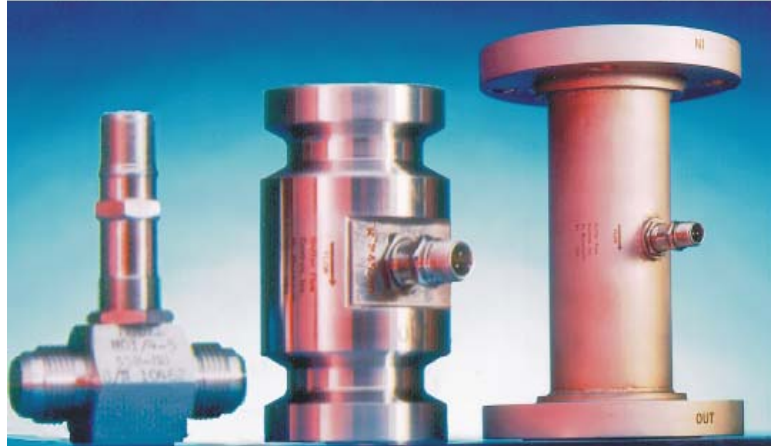
HO SERIES  
Turbine Flowmeters  
for Gas Service  
Product Bulletin HO-G-110F

## TECHNICAL DATA SHEET

### OUTSTANDING FEATURES

- Low cost.
- Outstanding accuracy.
- Provides wide flow ranges.
- Wide variety of process connections available.\*
- Operate over a wide range of temperatures and pressures.
- Exclusive use of hybrid ceramic ball bearings provide superior life.

\* MS Flared or Flanged end connections are best suited due to the even transition at the connections.



**GAS SIZE SELECTOR CHART FOR STANDARD HO SERIES TURBINE FLOWMETERS**

| Flowmeter Size<br>Diameter<br>(inches) | Repeatable Range**<br>Based on a Gas Density of 1#/Ft <sup>3</sup> |                     | Repeatable Range**<br>Based on a Gas Density of .25#/Ft <sup>3</sup> |                     |
|----------------------------------------|--------------------------------------------------------------------|---------------------|----------------------------------------------------------------------|---------------------|
|                                        | Magnetic Coil<br>(ACF/M)                                           | MCP Coil<br>(ACF/M) | Magnetic Coil<br>(ACF/M)                                             | MCP Coil<br>(ACF/M) |
| 1/2 x 1/4                              | N/A                                                                | .15 – 3.5           | N/A                                                                  | .3 – 3.5            |
| 1/2 x 3/8                              | N/A                                                                | .3 – 5              | N/A                                                                  | .6 – 5              |
| 5/8                                    | N/A                                                                | .5 – 10             | N/A                                                                  | 1 – 10              |
| 3/4                                    | N/A                                                                | .6 – 20             | N/A                                                                  | 1.2 – 20            |
| 1                                      | 2.5 – 43                                                           | .8 – 43             | 5 – 43                                                               | 1.6 – 43            |
| 1 1/4                                  | 3.5 – 100                                                          | 1.25 – 100          | 7 – 100                                                              | 2.5 – 100           |
| 1 1/2                                  | 5.0 – 120                                                          | 1.75 – 120          | 10 – 120                                                             | 3.5 – 120           |
| 2                                      | 10 – 200                                                           | 3.5 – 200           | 20 – 200                                                             | 7 – 200             |
| 2 1/2                                  | 15 – 500                                                           | 5 – 500             | 30 – 500                                                             | 10 – 500            |
| 3                                      | 20 – 600                                                           | 7.5 – 600           | 40 – 600                                                             | 15 – 600            |
| 4                                      | 30 – 1100                                                          | N/A                 | 60 – 1100                                                            | N/A                 |
| 5                                      | 40 – 1800                                                          | N/A                 | 80 – 1800                                                            | N/A                 |
| 6                                      | 50 – 3000                                                          | N/A                 | 100 – 3000                                                           | N/A                 |
| 8                                      | 100 – 4800                                                         | N/A                 | 200 – 4800                                                           | N/A                 |
| 10                                     | 150 – 7500                                                         | N/A                 | 300 – 7500                                                           | N/A                 |
| 12                                     | 200 – 12000                                                        | N/A                 | 400 – 12000                                                          | N/A                 |

This chart is for quick reference only and not for final size. Calculate using actual service conditions.

\*\*Lower limit of flow range is dependent on user's operating density.

### SPECIFICATIONS

**Overrange:** 150% of maximum flow (intermittently). **Available Temperature Range:** -450°F to +350°F continuous (to +400°F intermittent heat).

**Available Turn Down Range:** Dependent on gas density at user's operating conditions.

**Linearity:** ±1% of reading typical. \*\*\*

**Repeatability:** ±0.25% over tabulated repeatable range.

*Note: Performance enhancement techniques are routinely applied to produce wider linear and useable flow ranges. This technique is also used to improve linearity and repeatability. Consult the applications group at Hoffer with your requirements.*

**End Fittings:** MS flared and flanged styles are recommended. Other types available on request.

**Bearing Styles:** Ceramic hybrid ball bearings only.

**Materials:** 316 stainless steel standard. Consult with applications group for corrosive applications. Broad material list available.

\*\*\* Linearity is density-dependent for a given meter. Consult factory for details.

**MODEL HO**                      (A) X (B) - (C) - (D) - (E/F/G) - (H) - (I)

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