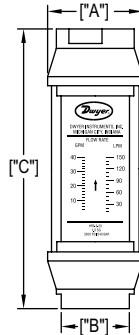


IN-LINE FLOW MONITOR

For Air, Water or Caustic Fluids, $\pm 2\%$ Full-Scale, Unrestricted Mounting, High Temperature and Pressure Options



Valve Size	"A" Reference	"B" Wrench Flats	"C" Reference
1/8 NPT	1.25	0.875	4.813
1/4 to 1/2 NPT	1.875	1.250	6.562
3/4 to 1 NPT	2.375	1.750	7.125
1-1/4 to 1-1/2 NPT	3.500	2.250	10.125
2 NPT	3.500	2.250	12.625

The **Series HF In-Line Flow Monitor** is ruggedly constructed and ideal for direct measurement for a range of compatible gases, oil or water based liquids. This Series is designed based on a floating orifice disk and variable area flow measurement. Flowing media forces linear motion of the orifice disk and a ring shaped magnet which ride on a tapered center shaft. The transfer magnet drives a clearly visible magnet follower located outside the flow tube, and a ring on the magnet follower indicates flow rate on the direct reading scale.

BENEFITS/FEATURES

- This unique design allows accurate performance with fluid viscosities up to 500 SSU
- All internal wetted parts are contained inside a sealed metal tubular casing assuring a virtually maintenance-free unit
- Increased application versatility with no inlet or outlet straight plumbing requirement and can be mounted horizontally, vertically, or inverted
- Rugged construction allows for high pressure and temperature rating for long operation life

APPLICATIONS

- Setting pressure relief valves
- Fluid handling equipment
- Detecting low-flow rates for lubricating liquids
- Pulp and paper
- Industrial maintenance
- Fluid power
- Heating loop flow

SPECIFICATIONS

Service: Compatible gases or liquids.
Wetted Materials: HFA: Aluminum casing, Buna-N seals, PTFE coated Alnico magnet, SS disk; HFB: Brass casing, Buna-N seals, PTFE coated Alnico magnet, SS disk; HFS: 303 SS casing, FKM seals with PTFE backup, PTFE coated Alnico magnet, SS disk.
Maximum Viscosity: 500 SSU.
Temperature Limits: 240°F (116°C).
Pressure Limits: HFA, HFB, HFL and HFH models: 600 psig (41 bar) for air and gas, 3500 psig (241 bar) for liquids; HFS model: 1000 psig (70 bar) for air and gas, 6000 psig (413 bar) for liquids.
Accuracy: $\pm 2\%$ FS.
Repeatability: $\pm 1\%$ of FS.
Shipping Weight: 1/4" to 1/2" female NPT models: 2 lb (0.9 kg); 3/4 to 1" female NPT models: 3.5 lb (1.59 kg); 1-1/2" female NPT models: 11 lb (5 kg); 2" female NPT models: 13.5 lb (6.12 kg).

Note: Series HF monitors are recommended for use with system filtration of at least 74 microns or a 200 mesh screen.

MODEL CHART - BRASS BODY FOR WATER BASED FLUIDS (NON-STEAM)

Model	Connection Size	Range: Water GPM (LPM)*
HFB-2-05	1/2" female NPT	0.5 to 5.0 (1 to 19)
HFB-3-15	3/4" female NPT	2 to 15 (7.5 to 55)
HFB-3-20	3/4" female NPT	2 to 20 (7.5 to 75)
HFB-4-35	1" female NPT	5 to 35 (19 to 130)
HFB-5-50	1-1/2" female NPT	5 to 50 (19 to 189)
HFB-5-100	1-1/2" female NPT	10 to 100 (38 to 379)
HFB-6-75	2" female NPT	8 to 75 (31 to 284)
HFB-6-150	2" female NPT	20 to 150 (76 to 568)

*Dual scale range.

MODEL CHART - ALUMINUM BODY FOR OIL BASED FLUIDS

Model	Connection Size	Range: Oil GPM (LPM)*
HFL-2-05	1/2" female NPT	0.5 to 5.0 (1 to 19)
HFL-4-25	1" female NPT	2 to 25 (7.5 to 95)

*Dual scale range.

MODEL CHART - 304 SS BODY FOR HIGH-PRESSURE FLUIDS

Model	Connection Size	Range: Water GPM (LPM)*
HFS-2-02	1/2" female NPT	0.2 to 2.0 (0.75 to 7.5)
HFS-2-10	1/2" female NPT	0.5 to 10 (1.9 to 38)

*Dual scale range.

MODEL CHART - ALUMINUM, BRASS, AND STAINLESS STEEL FOR AIR AND OTHER NON-CORROSIVE GASES

Aluminum Model	Brass Model	Stainless Steel Model	Connection (NPT female, dry seal)	Range: SCFM (LPS)*
HFA-1-001	HFB-1-001	HFS-1-001	1/4"	1.5 to 12 (0.5 to 5.5)
HFA-1-002	HFB-1-002	HFS-1-002	1/4"	4 to 23 (2 to 10)
HFA-1-003	HFB-1-003	HFS-1-003	1/4"	5 to 50 (2.5 to 25)
HFA-1-004	HFB-1-004	HFS-1-004	1/4"	10 to 100 (5 to 45)
HFA-8-001	HFB-8-001	HFS-8-001	3/8"	1.5 to 12 (.5 to 5.5)
HFA-8-002	HFB-8-002	HFS-8-002	3/8"	4 to 23 (2 to 10)
HFA-8-003	HFB-8-003	HFS-8-003	3/8"	5 to 50 (2.5 to 25)
HFA-8-004	HFB-8-004	HFS-8-004	3/8"	10 to 100 (5 to 45)
HFA-2-001	HFB-2-001	HFS-2-001	1/2"	1.5 to 12 (.5 to 5.5)
HFA-2-002	HFB-2-002	HFS-2-002	1/2"	4 to 23 (2 to 10)
HFA-2-003	HFB-2-003	HFS-2-003	1/2"	5 to 50 (2.5 to 25)
HFA-2-004	HFB-2-004	HFS-2-004	1/2"	10 to 100 (5 to 45)
HFA-3-003	HFB-3-003	HFS-3-003	3/4"	5 to 50 (3 to 23)
HFA-3-004	HFB-3-004	HFS-3-004	3/4"	10 to 100 (4 to 48)
HFA-3-005	HFB-3-005	HFS-3-005	3/4"	15 to 150 (8 to 56)
HFA-3-006	HFB-3-006	HFS-3-006	3/4"	30 to 330 (20 to 150)
HFA-4-003	HFB-4-003	HFS-4-003	1"	5 to 50 (3 to 23)
HFA-4-004	HFB-4-004	HFS-4-004	1"	10 to 100 (4 to 48)
HFA-4-005	HFB-4-005	HFS-4-005	1"	15 to 150 (8 to 56)
HFA-4-006	HFB-4-006	HFS-4-006	1"	30 to 330 (20 to 150)
HFA-9-007	HFB-9-007	HFS-9-007	1-1/4"	30 to 470 (15 to 220)
HFA-9-008	HFB-9-008	HFS-9-008	1-1/4"	150 to 900 (75 to 425)
HFA-5-007	HFB-5-007	HFS-5-007	1-1/2"	30 to 470 (15 to 220)
HFA-5-008	HFB-5-008	HFS-5-008	1-1/2"	150 to 900 (75 to 425)

*Dual scale range.

USA: California Proposition 65
WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.