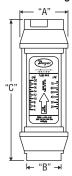


IN-LINE FLOW MONITORS

For Air, Water or Caustic Fluids, $\pm 2.5\%$ Accuracy, Unrestricted Mounting





Connection	"A"	"B"	"C"
Size	Reference	Wrench Flats	Reference
3/4" to 1" NPT 1-1/2" NPT	2-3/8" [60 mm] 3-1/2" [89 mm]	1-3/4" [45 mm] 2-5/8" [67 mm]	6-9/16" [167 mm] 7-1/8" [181 mm] 10-1/8" [257 mm] 12-5/8" [321 mm]

The SERIES HF In-Line Flow Monitors are 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.

FEATURES/BENEFITS

- 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

MODEL CHART - ALUMINUM BODY FOR OIL BASED FLUIDS			
Model	Connection Size	Range, Oil GPM (LPM)	
	1/2" female NPT 1" female NPT	0.5 to 5.0 (1 to 19) 2 to 25 (7.5 to 95)	

MODEL CHART - 304 SS BODY FOR HIGH-PRESSURE FLUIDS				
Model	Connection Size	Range, Water GPM (LPM)		
HFS-2-02 HFS-2-10	1/2" female NPT 1/2" female NPT	0.2 to 2.0 (0.75 to 7.5) 0.5 to 10 (1.9 to 38)		

			NS

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.

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: ±4% FS over entire range; ±2.5% over center third of the measuring range.

range

Repeatability: ±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 HFB-3-15 HFB-3-20 HFB-4-35 HFB-5-50 HFB-6-75 HFB-6-150	1/2" female NPT 3/4" female NPT 3/4" female NPT 1" female NPT 1-1/2" female NPT 1-1/2" female NPT 2" female NPT 2" female NPT	0.5 to 5.0 (1 to 19) 2 to 15 (7.5 to 55) 2 to 20 (7.5 to 75) 5 to 35 (19 to 130) 5 to 50 (19 to 189) 10 to 100 (38 to 379) 8 to 75 (31 to 284) 20 to 150 (76 to 568)		

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			3/8"	10 to 100 (5 to 45)	
HFA-2-001	HFB-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			1/2"	5 to 50 (2.5 to 25)	
HFA-2-004			1/2"	10 to 100 (5 to 45)	
HFA-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		3/4"	15 to 150 (8 to 56)	
	HFB-3-006		3/4"	30 to 330 (20 to 150)	
HFA-4-003			1″	5 to 50 (3 to 23)	
HFA-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			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)	