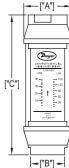
Dwyer. SERIES HF **IN-LINE FLOW MONITOR**

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





Valve Size	"A" Reference	"B" Wrench Flats	"C" Referen
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.

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 - 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-5-100 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	$\begin{array}{c} 0.5 \ \text{to} \ 5.0 \ (1 \ \text{to} \ 19) \\ 2 \ \text{to} \ 15 \ (7.5 \ \text{to} \ 55) \\ 2 \ \text{to} \ 20 \ (7.5 \ \text{to} \ 75) \\ 5 \ \text{to} \ 35 \ (19 \ \text{to} \ 130) \\ 5 \ \text{to} \ 50 \ (19 \ \text{to} \ 189) \\ 10 \ \text{to} \ 100 \ (38 \ \text{to} \ 379) \\ 8 \ \text{to} \ 75 \ (31 \ \text{to} \ 284) \\ 20 \ \text{to} \ 150 \ (76 \ \text{to} \ 568) \end{array}$	
*Duel coolo rengo			

*Dual scale range

MODEL CHART -	ALUMINUM,	BRASS, AND	STAINLESS	STEEL I	FOR AIR AND
OTHER NON-CO	RROSIVE GAS	SES			

OTHER NO	OTHER NON-CORROSIVE GASES			
Aluminum	Brass	Stainless Steel	Connection	Range:
Model	Model	Model	(NPT female, dry seal)	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		HFS-1-004	1/4″	10 to 100 (5 to 45)
HFA-8-001		HFS-8-001	3/8″	1.5 to 12 (.5 to 5.5)
HFA-8-002		HFS-8-002	3/8″	4 to 23 (2 to 10)
HFA-8-003		HFS-8-003	3/8″	5 to 50 (2.5 to 25)
HFA-8-004		HFS-8-004	3/8″	10 to 100 (5 to 45)
HFA-2-001		HFS-2-001	1/2″	1.5 to 12 (.5 to 5.5)
HFA-2-002		HFS-2-002	1/2″	4 to 23 (2 to 10)
HFA-2-003		HFS-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		HFS-3-004	3/4"	10 to 100 (4 to 48)
HFA-3-005		HFS-3-005	3/4″	15 to 150 (8 to 56)
HFA-3-006			3/4″ 1″	30 to 330 (20 to 150)
HFA-4-003 HFA-4-004		HFS-4-003 HFS-4-004	1″	5 to 50 (3 to 23)
HFA-4-004		HFS-4-004	1″	10 to 100 (4 to 48) 15 to 150 (8 to 56)
HFA-4-005		HFS-4-005	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		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		HFS-5-008	1-1/2″	150 to 900 (75 to 425)
*Dual scale	range			· · · · · · · · · · · · · · · · · · ·

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: ±2% FS. 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: 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 - ALUMINUM BODY FOR OIL BASED FLUIDS			
Model	Connection Size	Range: Oil GPM (LPM)*	
HFL-2-05 HFL-4-25	1/2" female NPT 1" female NPT	0.5 to 5.0 (1 to 19) 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 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)	
*Dual scale range			

