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" Refere
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, AI	ND STAINLES	S STEEL	FOR AIR AND
OTHER NON-CO	RROSIVE GA	SES			

OTHER NO	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		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		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			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		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			3/4″	15 to 150 (8 to 56)
HFA-3-006			3/4″	30 to 330 (20 to 150)
HFA-4-003		HFS-4-003	1″ 1″	5 to 50 (3 to 23)
HFA-4-004		HFS-4-004	1″	10 to 100 (4 to 48)
HFA-4-005		HFS-4-005	1″	15 to 150 (8 to 56)
HFA-4-006		HFS-4-006		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 HFA-5-008		HFS-5-007 HFS-5-008	1-1/2″ 1-1/2″	30 to 470 (15 to 220) 150 to 900 (75 to 425)
		HF3-3-000	1-1/2	130 10 900 (75 10 425)
*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% ES

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: 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			

FLOW

USA: California Proposition 65

△WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov