




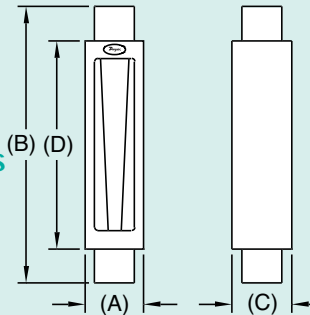
Series  
IF

# Industrial Direct Reading Flowmeter

Air/Water Direct Reading Scale, 304 SS Protective Shield, ±3% Accuracy



Higher Flow Rates Available



**Dimensions**

Tube size	Female NPT	A	B	C	D
1 and 2	1/2"	2 [50.8]	9.54 [242]	2.25 [57.2]	8.04 [204]
3 and 4	1"	3.5 [89]	13.69 [348]	3.75 [95.3]	10.50 [267]
5 and 6	2"	5 [127]	15.59 [396]	5.25 [133]	11.55 [293]

FLOW

**Ideal for industrial applications**, the Series IF Industrial Direct Reading Flowmeters are fully enclosed in a brushed stainless steel case. The flowmeters can directly measure flow rates up to 116 GPM (439 lpm) for water and 250 SCFM (7080 lpm) for air service. The detachable, clear 3/16" thick polycarbonate front shield provides protection at maximum rated temperature and pressure. Each unit is designed with female NPT end fittings for easy in-line installation.

**SPECIFICATIONS**

**Service:** Liquids or gases.  
**Wetted Materials:** Flowtube: Borosilicate glass; Float, Guide Rods, Float Stops, End Fittings: 316 SS; O-Rings: Fluoroelastomer.  
**Temperature Limit:** 200°F (93°C).  
**Pressure Limit:** 200 psi (13.8 bar); 125 psi for tube size 5 & 6.

**Accuracy:** ±3% of full scale.  
**Repeatability:** ±0.5% of full scale.  
**Turndown Ratio:** 10:1.  
**Scale:** Dual scale GPM and scfm.  
**Process Connection:** See table.  
**Mounting:** Vertical.  
**Front Shield:** Polycarbonate.  
**Side Panels:** 304 SS.

**MODELS**


Model Number	Maximum Flow Rate		Tube Size	Pressure Drop (in. H <sub>2</sub> O)		Model Number	Maximum Flow Rate		Tube Size	Pressure Drop (in. H <sub>2</sub> O)	
	Water GPM	Air SCFM					Water GPM	Air SCFM			
IF2700	0.25	1.2	1	—		IF2711	11	47.5	4	13	
IF2701	0.36	1.7	1	2		IF2712	14	62	4	24	
IF2702	0.76	3.3	1	5		IF2713	20	90	4	39	
IF2703	1	4.2	2	6		IF2714	22	90	5	16	
IF2704	1.5	6.5	2	—		IF2715	26	—	4	70	
IF2705	2.2	8.5	2	10		IF2716	41	160	6	5	
IF2706	3.8	16	3	10		IF2717	44	180	5	30	
IF2707	5	21.5	3	14		IF2718	60	245	6	16	
IF2708	6	25.5	4	5		IF2719	61	250	5	40	
IF2709	7.4	30	4	6		IF2720	86	—	6	25	
IF2710	9.6	40	4	10		IF2721	116	—	6	45	



Series  
VAT

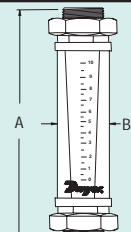
# Variable Area Fluoropolymer Flowmeter

In-Line, ±5% Accuracy, Chemically Inert



**Dimensions**

Connection	A	B
1/4"	5-11/16 (144)	1-1/4" (31.8)
3/8"	5-11/16 (144)	1-1/4" (31.8)
1/2"	10-1/2" (267)	2" (50.8)
3/4"	10-1/2" (267)	2" (50.8)



**MODELS**

Model Number		LOW RANGE	
Valve	No Valve	Connections	Flow Rate ml/min (gph)
VAT-311	VAT-301	1/4" female NPT	75 (1.19)
VAT-312	VAT-302	1/4" female NPT	250 (3.91)
VAT-313	VAT-303	1/4" female NPT	400 (6.34)
VAT-314	VAT-304	1/4" female NPT	500 (7.92)
VAT-315	VAT-305	1/4" female NPT	1000 (15.85)
VAT-316	VAT-306	3/8" female NPT	2000 (31.69)
VAT-317	VAT-307	3/8" female NPT	2500 (39.62)
VAT-318	VAT-308	3/8" female NPT	3000 (47.54)
VAT-319	VAT-309	3/8" female NPT	5000 (79.23)
Model Number		HIGH RANGE	
Valve	No Valve	Connections	Flow Rate L/min (gpm)
VAT-6110	VAT-6010	1/2" female NPT	13 (3.43)
VAT-6111	VAT-6011	1/2" female NPT	20 (5.28)
VAT-6112	VAT-6012	3/4" female NPT	30 (7.93)
VAT-6113	VAT-6013	3/4" female NPT	40 (11.57)
VAT-6114	VAT-6014	3/4" female NPT	45 (11.89)

**Constructed entirely of Fluoropolymers**, the Series VAT Flowmeters are ideal for high purity or corrosive liquid applications. Flowmeters feature a 0-10 scale for flow indication. Each unit is individually leak tested to a leak integrity rating of 1 x 10<sup>-7</sup> sccs Helium or better. The Series VAT are designed for in-line mounting and include a removable protective shield.

**SPECIFICATIONS**

**Service:** Compatible liquids.  
**Wetted Materials:** Flowtube: PFA. Float and End Fittings: PTFE. Guide Rods: PCTFE.  
**Temperature Limit:** 250°F (121°C).  
**Pressure Limit:** 100 psig (6.9 bar).  
**Accuracy:** ±5% FS @ 70°F

(21.1°C) and 14.7 psia (1 atm absolute).  
**Process Connections:** See chart.  
**Leak Integrity:** 1 x 10<sup>-7</sup> sccs of Helium.  
**Scale:** 0 to 10 markings.  
**Mounting:** Vertical, In-Line.