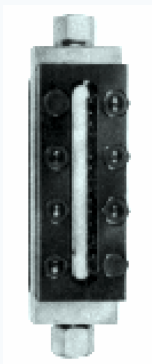


VARIABLE AREA FLOWMETERS – GLASS TUBE

Description

The Series 1400 Flowmeters are intended for services where the advantages of glass tube indicating flowmeter are normally ruled out by service pressures above the safe operating pressures of glass tubes. A pressure equalizing system balances the pressure on the wall of the tube and permits operation at pressures up to 3000 PSI.



IE HI-PRESSURE (GLASS TUBE) INDICATING FLOW METERS

Design Features

- Through-bolted gage-glass housing
- Resilient sealing gasket on 1450 Series requiring moderate torque for sealing
- Flat asbestos gaskets on 1410 Series
- MS-33656 type o-ring seal between end fittings and gage chamber
- Internals removable without disturbing gage bolts
- Special equalizing vent on inlet fitting
- Metering tube sealed by a spring against a tube seal gasket to prevent bypass flow around tube
- Heavy tempered glass window front and back
- Detachable scales
- Vertical or horizontal NPT or flanged connections

Floats Spherical

Glass, 316 Stainless Steel, Carbonyl

Gage Glass Bodies

Carbon Steel, 316 Stainless Steel

End Fittings

Carbon Steel, 316 Stainless Steel

Gage Glass Gasket

Series 1410: Flat Asbestos; Series 1450: Standard Viton-A

Structural Members

Center Chamber: Steel or 316 Stainless Steel; Covers: Steel

Specifications

WARNING: Do not operate this instrument in excess of the specifications listed below. Failure to heed warning may result in serious personal injury or damage to equipment.

Scales

Nominal Lengths – 150 mm engraved on detachable metal plates. Graduations – Direct reading, Arbitrary millimetre with flow calibration curves, percentage of maximum flow with factor tag.

Performance

Industrial Accuracy: + full scale from 100% down to 10% of reading for all scale lengths. ISA Spec. 2-S-10. Calibrated Accuracy: + 1% full scale. ISA Spec. 1-S-10. Repeatability: 0.5% full scale

Flange Rating	-20°F to 100°F	200°F	300°F	400°F
150 lb. (Steel)*	285	260	230	200
150 lb (316 SS)	275	240	215	195
300 lb. (Steel)*	740	675	685	635
300 lb. (316 SS)	720	620	560	515
600 lb. (Steel)*	1480	1350	1315	1270
600 lb. (316 SS)	1440	1240	1120	1030

* Psia at indicated temperature

Capacities

Meter Size	Tube No.	Float Material	Max. Flow Rate	
			Water (cc/min.)	Air (SLPM)
2	R-2-15-AAA	Glass	0.54	0.049
		Stainless Steel	2.49	0.146
		Carboloy	4.9	0.245
	R-2-15-AA	Glass	1.11	0.096
		Stainless Steel	4.93	0.265
		Carboloy	9.33	0.43
	R-2-15-D	Glass	5.75	0.37
		Stainless Steel	20.6	0.82
		Carboloy	33.2	1.22
	R-2-15-A	Glass	18.3	0.95
		Stainless Steel	52.1	1.9
		Carboloy	81.8	2.8
6	R-2-15-B	Glass	52.8	2.35
		Stainless Steel	133.	4.6
		Carboloy	199.	6.6
	R-2-15-C	Glass	84.6	3.8
		Stainless Steel	218.	7.6
		Carboloy	326.	10.4
	R-6-15-A	Glass	200.	8.6
		Stainless Steel	493.	16.4
		Carboloy	726.	23.
6	R-6-15-B	Glass	573.	23.5
		Stainless Steel	1350.	43.
		Carboloy	1950.	60.

Optional Equipment Available

Non-frosting gage glass
Tab for fitting gage chambers
Integral steam heating ducts
Special connections: High Pressure metal to metal
compression tube fittings, steel or stainless.

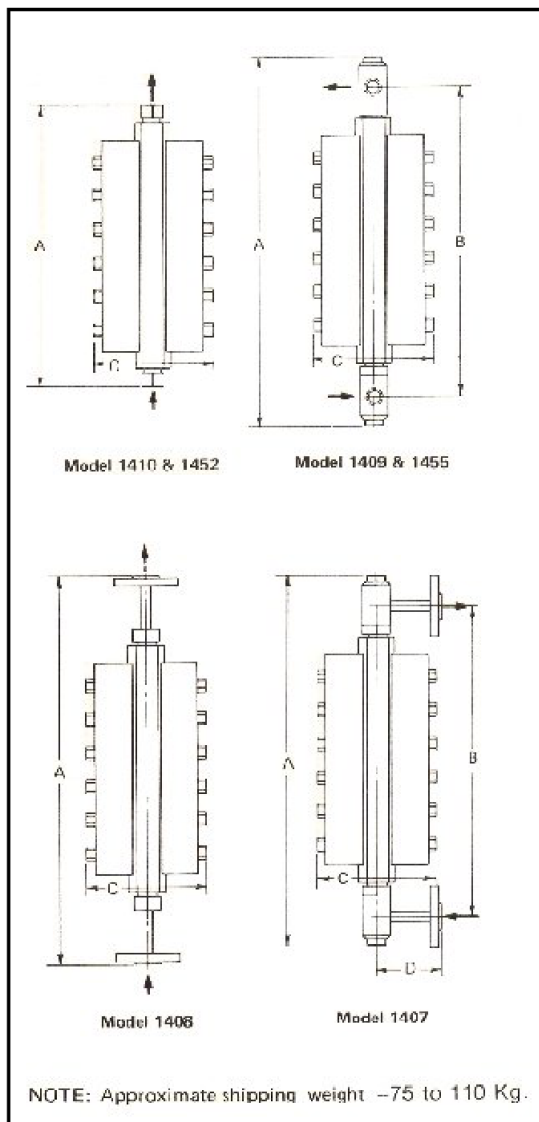
Ordering Information

To order, please specify:

- Complete flow metering data:
Type of fluid
Maximum, Minimum, normal flows
Temperature, Pressure
Viscosity, Specific Gravity
Maximum allowable pressure drop
- Model number and size of flowmeter
- Connection arrangement and orientation
- Materials of construction
- Scale data and float type required
- Options if desired

Dimensions (For Certified Prints, Write To Factory.)

MODEL NO.	CONN SIZE MM	DIMENSIONS (MM)			
		A	B	C	D
1410	1/4" NPT	322.26	--	139.76	--
1452	1/4" NPT	322.26	--	139.70	--
1409	1/4" NPT	423.86	336.55	131.76	--
1455	1/4" NPT	423.86	336.55	139.70	--
1408	1/2" FLG	438.15	--	131.76	--
1407	1/2" FLG	423.86	336.55	131.76	88.9



Specifications subject to change without notice.