

VARIABLE AREA FLOWMETERS – METAL TUBE

Description

The Armored Flow Indicator is a reliable, inexpensive flow meter for purge service at elevated pressures. The meter is especially useful for metering coolants, pump seal fluids, lubricants under pressure, opaque fluids, and similar applications. The flow rate is measured by the movement of a tapered plug in a fixed orifice. Indication is by an external tubular follower coupled magnetically to an extension of the tapered plug.



HI-PRESSURE ARMORED FLOW INDICATOR SERIES 3600

Design Features

- Ten-to-one rangeability
- Flanged, threaded, or socket weld connections
- Disassembly for cleaning without removal from line
- Standard direct reading, detachable scales
- Laminated safety glass window
- (Optional) Reed switch operated alarm relay

Materials Of Construction

METER BODY & TRIM: Steel or 316 Stainless Steel
METERING PLUG, ORIFICE, EXTENSION & MAGNET. CAPSULE: 316 Stainless Steel
EXTENSION WELL: 316 Stainless Steel
O-RINGS: Neoprene; Silicone, Viton available.
EXTENSION CASE: Steel (Indicator), Aluminium (Alarm).

Scales

Length – 1-1/2" Material – Black anodized aluminium
Graduations – GPH water (1/2" size), GPM water (1" & 1- 1/2" sizes), SCFH Air (1/2" meters only). Special graduations available as options

Performance

Industrial Accuracy: Air or Water +10% of full scale reading.
Calibrated Accuracy: Air or Water + 5% of full scale reading.
Repeatability: Within 1% of full scale.

Connections

Vertical inlet, Horizontal Outlet Model 3600 - Socket-weld connections
Model 3601 – Flanged connections, all ratings
Model 3602 – NPT threaded connections

Capacities and Pressure Drop

1/2" NPT			1" NPT		1-1/2" NPT	
Air SCFH	Water GPH	Pressure Drop PSI	Water GPM	Pressure Drop PSI	Water GPM	Pressure Drop PSI
30	5	--	5	1.75	18	2.00
60	15	1.25	10	3.75	30	2.75
140	30	1.50	15	4.75	40	4.75
330	50	1.00	--	--	50	5.75
620	100	1.50	--	--	--	--
1400	180	3.25	--	--	--	--
2300	300	5.00	--	--	--	--

Notes: All airflows given are at 14.7 psia and 70°F.

1" and 1-1/2" meters not recommended for gas service.

All meters have a 10 to 1 capacity range.

Minimum operating pressure (downstream) on gas service 35 psig.

Optional Equipment

INDICATING ALARMS *

Models 6331 and 6332: Up to 2 magnetic switches and relays (SPDT) Non explosion proof Aluminium side and back plates, plastic shield, non-purge connections.

Models 6631 and 6632: Upto 2 magnetic switches and relays. Explosion proof, non-purge.

NON-INDICATING (BLIND) ALARM *

Model 6631 and 6632: Up to 2 magnetic switches and relays. Explosion proof, non-purge.

*SPDT relay: contact rating – 16 amperes at 115 v ac resistive. 8 amperes at 115 v ac inductive.

FLANGED CONNECTIONS

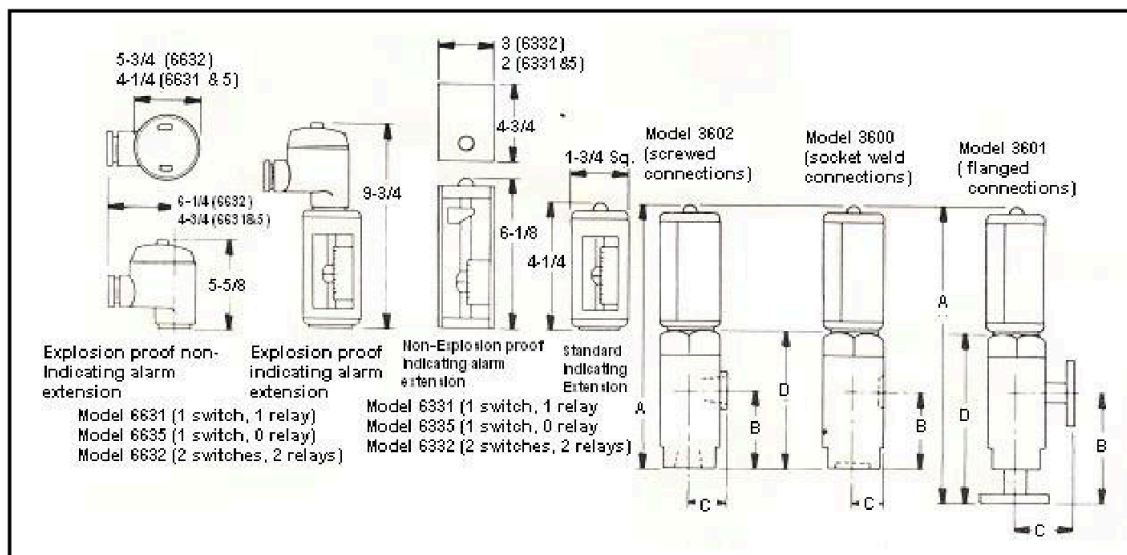
150lb., 300lb., or 600 lb. RF ANSI flanges in steel or 316 Stainless Steel only.

CONSTANT DIFFERENTIAL FLOW CONTROLLER (See DS-8800-8900):

Model Series 8800 for constant downstream pressure service – Integrally piped to inlet connection. Model Series 8900 for constant upstream pressure service – integrally piped to outlet connection.

Specifications subject to change without notice.

Dimensions



Conn. Size	3602				3600				3601			
	A	B	C	D	A	B	C	D	A	B	C	D
1/2	7-5/8	2-1/16	7/8	3-7/16	7-5/8	2-1/16	7/8	3-7/16	9-1/16	3-1/2	3-1/2	4-7/8
1	10-1/16	3-3/4	2-1/8	5-7/8	10-1/16	3-3/4	2-1/8	5-7/8	12-7/16	6-1/8	4	8-3/16
1-1/2	13	5-15/16	1-7/8	8-13/16	13	5-15/16	1-7/8	8-13/16	17-3/16	10-1/8	6-1/8	12-15/16

All dimensions in inches.