

IE Sight Flow Indicators

FLOW INDICATORS & SIGHT GLASSES

Description

IE Sight Flow indicators are offered in three models; plain, drip-lip, and flapper. All units have two viewing windows of high-strength tempered glass. They are available in steel and 316SS, with either flanged or threaded connections. Model Plain: Indicators are used in application to detect the presence or absence of the process fluid, or its characteristics. The absence of a specialized flow indicator allows the plain indicator to be mounted in any position. The indicator should be used with readily visible fluids which can be unidirectional or bidirectional flows. Model Drip Lip: Indicators are used with low flow applications. Drops form on the drip lip which is visible through the sight glass. This indicator requires vertical mounting with flow from top to bottom. The fluid level in the outlet line must be lower than the indicator so that the drip lip sight glass area is constantly drained. Model Flapper: Indicators are used with most applications. A flapper indicates flow by its position. While it is not intended to be a check valve, its design inherently resists flow reversals. This indicator can be used for horizontal or vertical mounting with the exception of vertical down flow.

Design Features

- Tempered glass windows
- ANSI RF flanges
- Suitable for pressure up to 600 psig (See Tables)
- Will withstand 250°F thermal shock

Specifications

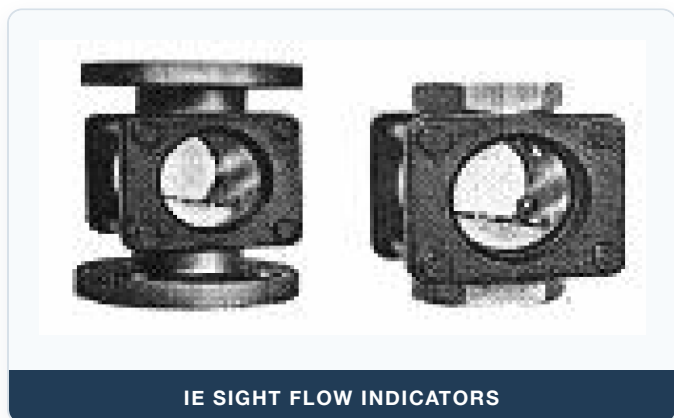
Caution: Do not operate this instrument in excess of the specifications listed below. Failure to heed warning may result in serious personal injury or damage to equipment. Model 8001A Model 8002A

Plain

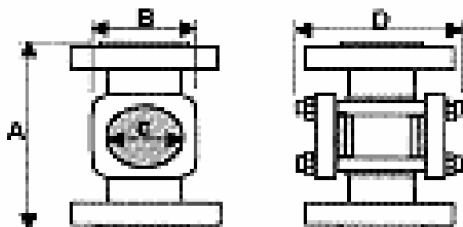
Model 8011A Model 8012A

Drip Lip

Model 8021A Model 8022A

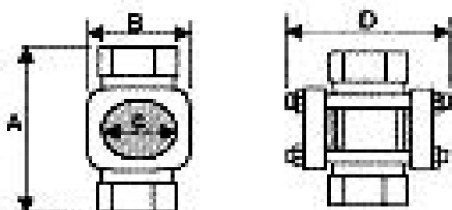


Flanged IE Sight Indicators



Flange Size	A	B	C	D
1"	6	3-3/8	2-3/16	4-3/4
1-1/2"	7	4-5/8	2-11/16	6
2"	7	4-5/8	2-11/16	6
3"	10	6-1/4	4	7-1/2
4"	10	6-1/4	4	8-1/2

All Dimensions given in Inches



Connection Size (NPT)	A	B	C	D
1/2"	5	3-3/8	2-3/16	4-3/4
3/4"	5	3-3/8	2-3/16	4-3/4
1"	5	3-3/8	2-3/16	4-3/4
1-1/2"	5-1/2	4-5/8	2-11/16	6
2"	5-1/2	4-5/8	2-11/16	6

All Dimensions given in Inches

Pressure Ratings:

8001A Series – Flanged Connections

Flange Size (Inches)	PSIG AT 200°F	
	150 # RF	300 # RF
1 – 16	240	440
>18	240	--

8002A Series – NPT Connections

Connection Size (Inches NPT)	Pressure Rating (PSIG at 200°F)
1/2	600
3/4	600
1	600
1-1/2	450
2	450

Temperature Ratings:

Maximum Working Temperature

Teflon - 450°F

Asbestos - 500°F

Neoprene - 180°F

Maximum Thermal Shock - 250°F

Materials of Construction:

Bodies – Steel or Stainless Steel

Window Cover Plates – Standard: Steel,

Optional: Stainless Steel

Window Gaskets – Standard: Neoprene

Optional: Asbestos or Teflon

Windows – Tempered Glass

Flanges – Steel or Stainless Steel

Dimensions:

See Figure 1.

Bolt & Nut Torque Values:

Size	Torque
1/2, 3/4, 1, 1-1/2, 2	15 Foot Pounds
3	20 Foot Pounds
4	45 Foot Pounds