

Extensive engineering and design have resulted in the highest industry standard for visual flow indicator technology.

Uncompromising levels of quality, safety and technological excellence are standard features in the complete line of L.J. Star Incorporated Standard Flanged Model visual flow indicators.

### Description

All standard flanged models in the L.J. Star Incorporated line of visual flow indicators carry full ANSI rating<sup>1</sup> and are available in several application-specific configurations. ANSI designed for 150# or 300# service, flanged units are available in sizes from 1/2" to 8".

### Styles

Flanged units are available in five styles designed to accommodate various mounting positions, fluid characteristics, flow rates and directions:

- *Plain Style* - May be installed in any position to observe fluid flow in any direction. These style indicators are usually employed to detect either the presence or absence of solutions, or to observe fluids for turbulence, color or clarity.
- *Drip Tube Style* - This style is well suited for vertical lines with downward flow direction. These units are particularly recommended for applications characterized by low or intermittent flow rates, such as distillation processes.
- *Flapper Style* - Recommended for monitoring either horizontal or vertical lines with upward flow. The flapper position indicates current flow rate. Flapper style indicators are the appropriate choice for use with clear and semi-opaque solutions.
- *Rotator Style* - This style indicator may be installed in any position to indicate flow in any direction. The visibility of rotor motion makes this style particularly well-suited for monitoring clear, translucent or dark solutions.
- *Gaseous Style* - Your answer for monitoring horizontal or vertical upward low velocity fluid streams. The special Teflon<sup>®</sup> indicator is very sensitive to the movement of gas. This allows you to effectively detect the existence or absence of flow.



Standard Flanged Visual Flow Indicator

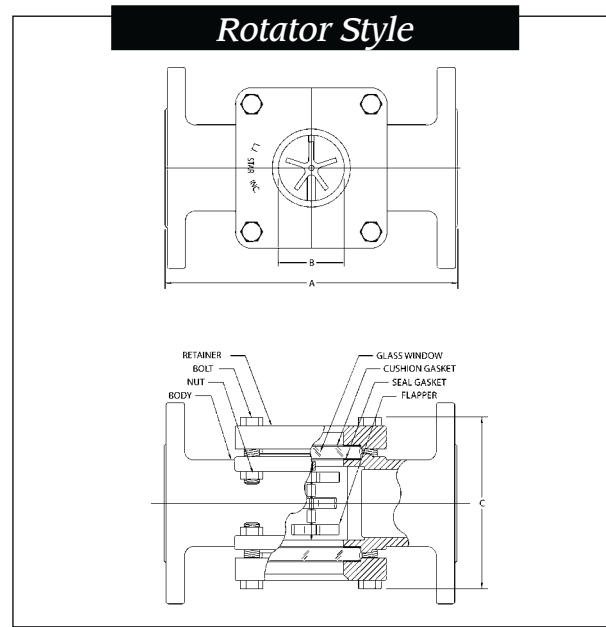
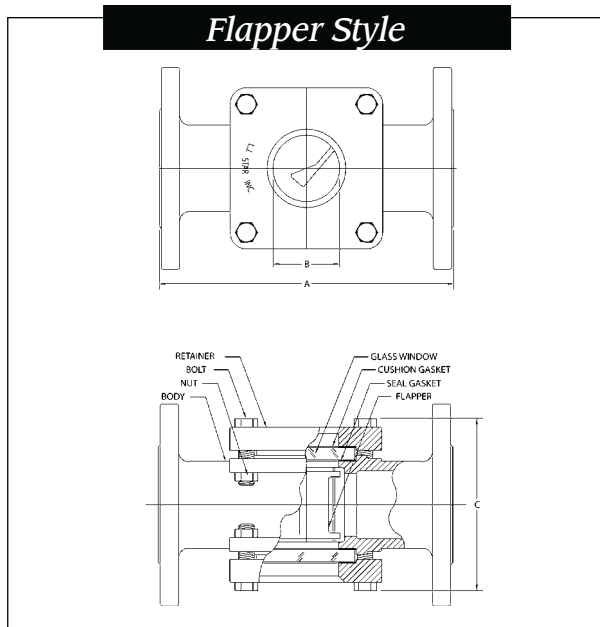
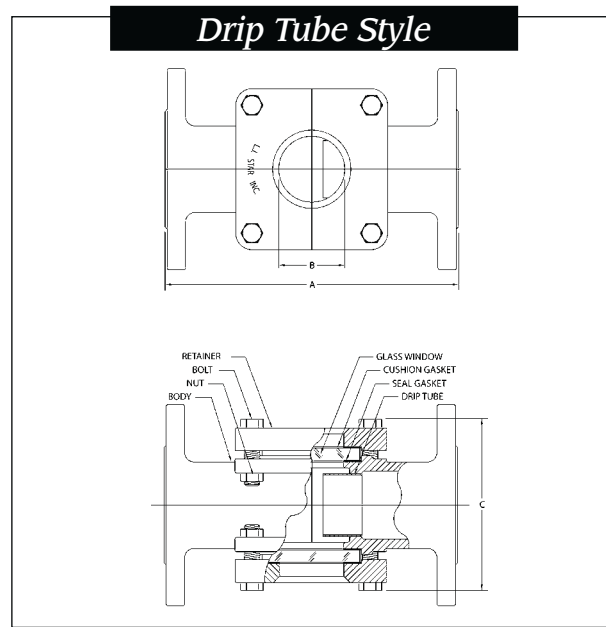
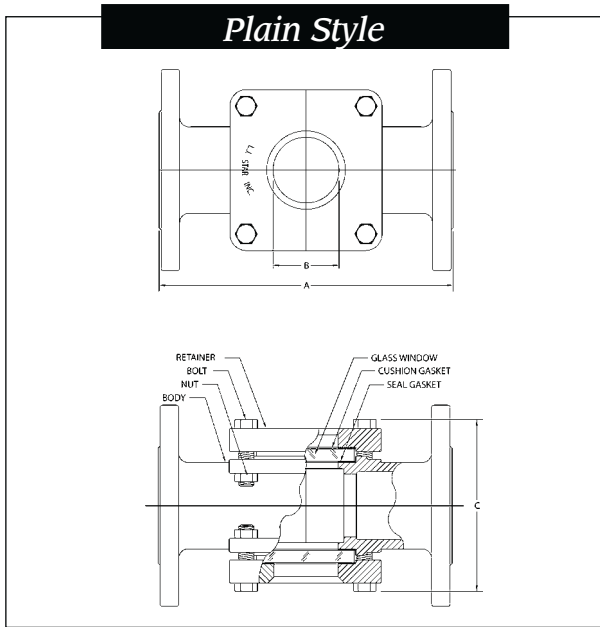
### Materials of Construction

- *Standard alloys*  
316 Stainless Steel; Carbon Steel
- *Optional alloys*  
Monel<sup>®</sup>; Hastelloy<sup>®</sup>; Alloy 20
- *Standard gasket materials*  
Neoprene; Gylon<sup>®</sup>
- *Optional gasket materials*  
Buna N; Viton<sup>®</sup>; PTFE; silicone, graphite, and non-asbestos gaskets
- *Optional window materials*  
Metaglas<sup>®</sup> Prestressed Safety Glass, Quartz

### Standard Safety and Maintenance Features

- Full ANSI Class Rating<sup>1</sup>
- Independently bolted glass retainers<sup>2</sup>
- Tempered borosilicate glass
- Investment cast surface finish<sup>3</sup>
- Acrylic enamel coating (carbon steel unit)
- Cast metal glass retainers
- Stainless steel glass retainers and Gylon<sup>®</sup> gaskets (stainless steel units)<sup>4</sup>
- In-stock delivery

1. Except 8" 150# unit which is nominal ANSI rated    2. 8" 150# units use cross bolts    3. Except 6" & 8" units    4. 6" & 8" units have cast steel retainers



150 psi Standard Flanged Model

Pipe Size	Dimension			Approx. Wt. (Lbs.)
	A	B	C	
1/2"	4-5/8"	1-1/4"	4-3/16"	6
3/4"	4-5/8"	1-1/4"	4-3/16"	6
1"	5-5/8"	1-1/4"	4-1/8"	11
1-1/2"	6-1/2"	1-3/4"	5-3/8"	17
2"	7-7/8"	2"	6-1/8"	27
3"	9-3/8"	3-3/16"	7-3/4"	56
4"	11"	4-3/8"	10-5/8"	75
6"	14-1/4"	6-7/8"	12-3/4"	150
8"	16-1/8"	8-1/4"	16-7/8"	230

300 psi Standard Flanged Model

Pipe Size	Dimension			Approx. Wt. (Lbs.)
	A	B	C	
1/2"	5-7/8"	1-1/4"	4-3/16"	9
3/4"	5-7/8"	1-1/4"	4-3/16"	9
1"	6-7/8"	1-1/4"	4-1/2"	12
1-1/2"	7-1/2"	1-3/4"	5-7/8"	19
2"	8-5/8"	2"	6-3/8"	30
3"	11-3/8"	3-3/16"	8-3/8"	62
4"	13-1/4"	4-3/8"	12-1/4"	84
6"	21-3/8"	6-7/8"	14-3/4"	162
8"	23"	6-7/8"	16-1/4"	250

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed



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## HEAVY DUTY SIGHT FLOW INDICATOR PART NUMBER MATRIX

Code	Pressure Rating (ANSI)				
1	150 ANSI				
2	300 ANSI				
	<b>Code</b>	<b>Indicator Style &amp; Connection Type</b>			
	1	Plain - Threaded			
	2	Drip - Threaded			
	3	Flapper - Threaded <b>add "G" after pipe size to designate Gaseous Flapper design (ex: 1308G-SH-NN5N)</b>			
	4	Rotor - Threaded			
	5	Plain - Flanged			
	6	Drip - Flanged			
	7	Flapper - Flanged <b>add "G" after pipe size to designate Gaseous Flapper design (ex: 1716G-SH-NN5N)</b>			
	8	Rotor - Flanged			
	<b>Code</b>	<b>Connection Size</b>			
	04	1/2"			
	06	3/4"			
	08	1"			
	12	1-1/2"			
	16	2"			
	24	3"			
	32	4"			
	48	6"			
	64	8"			
	80	10"			
	96	12"			
		<b>Maximum Standard Size for Threaded and Socket Weld Units</b>			
	<b>Code</b>	<b>Body Material</b>	<b>Temperature Limits</b>		
	C	Carbon Steel (ASTM A216 WCB)	Minimum	Maximum	
	S	316 Stainless Steel (ASTM A351 CF8M)	-20°F	800°F	
	A	Alloy 20	-325°F	1000°F	
	D	Duplex 2205	-325°F	800°F	
	H	Hastelloy C	-50°F	600°F	
	I	Inconel	-325°F	1250°F	
	M	Monel	-325°F	1000°F	
	R	304 Stainless Steel (ASTM A351 CF8)	-425°F	750°F	
			-425°F	1000°F	
	<b>Code</b>	<b>Seal Gasket Material</b>	Minimum	Maximum	
	H	PTFE (Gylon 3504) [Standard]	-350°F	500°F	
	B	Buna N	-40°F	250°F	
	E	EPDM	-60°F	300°F	
	F	Flourocarbon(Viton)	-20°F	400°F	
	G	Graphite Phelps 7075	-425°F	1000°F	
	N	Neoprene	-45°F	250°F	
	<b>Code</b>	<b>Window</b>	Minimum	Maximum	
	N	Borosilicate glass [Standard]	-425°F	500°F	
	1	Duplex/Borosilicate <b>Metaglas® Safety Glass</b>	-22°F	536°F	
	3	Hastelloy/Borosilicate <b>Metaglas® Safety Glass</b>	-76°F	576°F	
	5	Carbon Steel/Borosilicate <b>Metaglas® Safety Glass</b>	14°F	576°F	
	<b>Code</b>	<b>Lining</b>	Minimum	Maximum	
	N	No Lining [Standard]	-	-	
	A	Teflon Coating [PFA]	0°F	450°F	
	B	Kynar Coating [PVDF]		500°F	
	C	Tefzel Coating [ETFE]	-150°F	300°F	
PLEASE NOTE: CARBON STEEL BODY UNITS RECEIVE CARBON STEEL RETAINERS. STAINLESS STEEL/SPECIAL GRADE/LINED UNITS RECEIVE STAINLESS RETAINERS		<b>Code</b>	<b>Bolting</b>		
		1	Plated Steel [Grade 5] [Standard for CS body]		
		2	18-8 Stainless Steel		
		3	Alloy Steel (ASTM A193 B7/A194 2H)		
		4	304SS (ASTM A193 B8/A194 8)		
		5	316SS (ASTM A193 B8M/A194 8M) [Standard for 316SS body]		
		6	Alloy Steel (ASTM A320 L7/A194 7)		
		7	Alloy Steel (ASTM A193 B7M/A194 2HM)		
PLEASE NOTE: SOCKET WELD OPTION IS AVAILABLE FOR ALL NPT UNITS. INSERT "SW" AFTER PIPE CODE FOR PROPER PART NUMBERING. EX: 1316SW-SH-NN5N		<b>Code</b>	<b>Glass Protection (Internal Process side)</b>		
		N	No Shield [Standard]		
		A	FEP Shields [protection from aggressive chemicals]		
		B	Mica Shields [protects glass in steam applications]		
MODEL EXAMPLE: 1516-SH-1A2A					
150#/PLAIN-FLANGED/2"/316/PTFE(GYLON 3504)/DUPLEX-BORO METAGLAS/TEFLON COATING/18-8 BOLTING/FEP					



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