

Versilon[®] Sight Flow Indicators

IDEAL FOR HIGH PRESSURE APPLICATIONS

Versilon[®] Sight Flow Indicators are constructed with a translucent heavy wall FEP tube that permits visual inspection of conveyed material. The FEP tube will not break in high stress applications. Sight Flow Indicators allow flow, aeration, turbulence and cleanliness check.

Saint-Gobain offers a wide variety of Sight Flow Indicators: dip tubes, liquid level indicators, inspection ports, Flare-Thru flanged sight flow indicators and caged FEP sight gauges.

Typical Applications

- Flow check
- Aeration/Turbulence check
- Cleanliness check



Features and Benefits

- Permits visual inspection of conveyed material
- Non-contaminating: won't add taste or color
- Smooth, non-stick surface: cleans easily, minimal pressure drop, fitting surface exceeds sanitary design standards
- High pressure rating
- High and low temperature rated
- Will not break in high stress applications
- No bulky protective sheaths or supporting rods required
- Liquid level indicator
- Magnetic detector placement
- Saves space, cuts weight
- Unaffected by sunlight or ultraviolet radiation
- Will not discolor, age or yellow



Versilon® Sight Flow Indicators

Versilon® Sight Flow Indicator Specifications

Part Number	Size		Inside Diameter		Outside Diameter		FEP Wall Thickness		Operating Pressure at 70°F		Burst Pressure at 70°F	
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)
8STXXXXS6-L	1/2	12.7	1/2	12.7	0.70	17.8	0.10	2.5	200	1.38	800	5.52
12STXXXXS6-L	3/4	19.1	3/4	19.1	0.95	24.1	0.13	3.3	175	1.21	700	4.83
16STXXXXS6-L	1	25.4	1	25.4	1.25	31.8	0.13	3.3	125	0.86	500	3.45
24STXXXXS6-L	1-1/2	38.1	1-3/8	34.9	1.61	40.9	0.13	3.3	105	0.72	420	2.90
32STXXXXS6-L	2	50.8	1-7/8	47.6	2.10	53.3	0.13	3.3	72	0.50	290	2.00
40STXXXXS6-L	2-1/2	63.5	2-3/8	60.3	2.65	67.3	0.15	3.8	50	0.34	200	1.38
48STXXXXS6-L	3	76.2	2-7/8	73.0	3.23	82.0	0.18	4.6	40	0.28	160	1.10
64STXXXXS6-L	4	101.6	3-7/8	98.4	4.28	108.7	0.21	5.3	30	0.21	120	0.83

NOTE: 1/2", 3/4" and 1" sight flow indicators are available with 316L stainless steel Versilon connections. 1-1/2"-4" are available with 316L stainless steel sanitary clamp style fittings or with Flare-Thru ANSI Class 150 epoxy carbon steel or 316L stainless steel flanges. For applications over 200°F, consult factory.

Construction

Tube:	Translucent FEP fluoropolymer	
Temperature Rating:	-100°F to +400°F -73°C to +204°C	
Maximum Length:	21' OAL (all sizes)	
Minimum Length:	1/2" - 3" 4"	6" OAL 8" OAL Viewing area will be 1" or less
Suggested Minimum Length:	1/2" - 1-1/2" 2" - 4"	10" OAL 12" OAL

Fitting Options

Versilon® Crimp Style Fittings

- 316 stainless steel, sanitary clamp
- Consult factory for availability of styles other than sanitary

Dip Tubes, Liquid Level Indicators, Inspection Ports

Features and Benefits

- Ideal for decanting/filling operations, monitoring suction/discharge from pumping stations
- Corrosion and damage resistant, lightweight, non-aging
- Many fitting styles are available with various tube lengths (windows) that can be specified
- K Series solid tube PVDF (Kynar®) metal detector assemblies available in 1" - 4" ID; consult factory



Pressure Correction Factors

Pressure correction factors for all non-caged FEP Sight Flow Indicators

Using operating pressure at ambient with correction factors for elevated temperatures.

70°F	150°F	200°F	250°F	300°F
100%	65%	50%	35%	25%

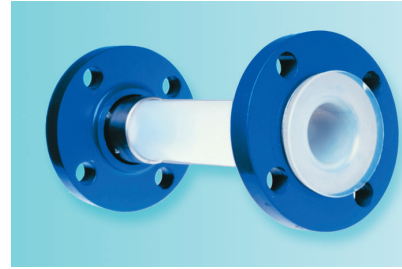
Example: 1" Sight Flow Indicator at 200°F rated at 125 psi ambient X .50 = 62.5 psi at 200°F.

Versilon® Sight Flow Indicators

Flare-Thru 150# Flanged Sight Flow Indicator

Features and Benefits

- Flare-Thru design eliminates entrapment areas



Flare-Thru Flanged Sight Flow Indicator Specifications

Part Number	Size		Tube ID		Operating Pressure at 70°F		Burst Pressure at 70°F		Fitting Length	
	(in)	(mm)	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)	(in)	(mm)
12ST1212S6FT-L	3/4	19.1	3/4	19.1	175	1.21	700	4.83	2.00	50.8
16ST1212S6FT-L	1	25.4	7/8	22.2	125	0.86	500	3.45	2.00	50.8
24ST1212S6FT-L	1-1/2	38.1	1-3/8	34.9	105	0.72	420	2.90	2.00	50.8
32ST1212S6FT-L	2	50.8	1-7/8	47.6	72	0.50	290	2.00	2.50	63.5
48ST1212S6FT-L	3	76.2	2-7/8	73.0	40	0.28	160	1.10	2.50	63.5
64ST1212S6FT-L	4	101.6	3-7/8	98.4	30	0.21	120	0.83	3.00	76.2

⚠ Important: Ratings are given at ambient temperatures, 70°F (21°C). See previous page for correction factors for pressures at temperatures other than ambient.

Construction

Tube:	Heavy gauge, translucent FEP fluoropolymer	
Minimum Overall Length, Flange X Flange (Flare-Thru):	3/4" - 2" 3" - 4"	10" face to face 12" face to face

Fitting Options

Versilon® Flare-Thru Fittings

- Flare-Thru class 150# epoxy coated flanged lap-joint style
- Optional: Flare-Thru class 150# 316L stainless steel flanged lap-joint style

Versilon® Sight Flow Indicators

Caged FEP Sight Gauge

Features and Benefits

- Permits visual inspection of conveyed material
- Reinforcing tube of stainless steel for added safety
- Higher working pressures at elevated temperatures
- Non-contaminating: won't add taste or color



Caged FEP Sight Gauge Specifications (sanitary clamp style or flanged ends)

Part Number	Inside Diameter		Operating Pressure at 70°F		Burst Pressure at 70°F	
	(in)	(mm)	(psi)	(MPa)	(psi)	(MPa)
16STXXXS6PG-L	1	25.4	250	1.72	1,000	6.89
24STXXXS6PG-L	1.5	38.1	200	1.38	800	5.52
32STXXXS6PG-L	2	50.8	100	0.69	400	2.76

⚠ Important: For 2-1/2", 3" and 4", consult factory for availability.

Construction

Tube:	Heavy gauge, translucent FEP fluoropolymer	
Cage:	<ul style="list-style-type: none"> - 304 or 316 stainless steel heavy wall tube - Machined 2" long by 3/8" wideviewing windows, 90° apart to allow for easy through-viewing - Slight overlap of viewing areas from one window level to the next eliminates dead spots, assures accurate level calculations 	
Minimum Overall Length, Flange X Flange (Flare-Thru):	1" - 2"	10" face to face
Available Lengths:	Custom lengths up to 4' maximum	

Fitting Options

Versilon® Flare-Thru Fittings

- Standard: Flare-Thru class 150# 316 stainless steel flanged lap-joint style

Versilon® Crimp Style Fittings

- 316 stainless steel sanitary clamp style

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



Saint-Gobain
210 Harmony Road
Mickleton, NJ 08056
USA

www.ics.saint-gobain.com



NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

Versilon® is a registered trademark of Saint-Gobain Performance Plastics Corporation.