SSP PFA-Lined Sight Glasses

NPS ½" – 6" · Class 150 · DIN and ANSI types · WCB or CF8M body

swissfluid USA

A PFA-lined flow indicator for virtually all process media, liquid or gaseous. Modular design in DIN or ANSI types: a sturdy cast WCB or CF8M body with PFA or PFA-AS lining, borosilicate window plates to DIN 7080, a wide chambered flange sealing surface that needs no additional flange gaskets, and a standard drip ledge that shows even minute flows.



Design

Sizes	NPS ½" – 6". Other sizes and materials on request.
Body and flanges	Cast steel 1.0619 (WCB), RAL 5005 signal-blue epoxy coated, or stainless steel casting 1.4408 (CF8M).
Lining	PFA standard; PFA-AS (antistatic, conductive) to order. Every lining high-voltage tested at 35 kV for freedom from pores.
Glass plates	Borosilicate 8488 to DIN 7080 standard; glass plate for PN 40, metal-reinforced glass and quartz glass to order. FEP glass protection sheet to order.
Gasket and bolting	C-4400 asbestos-free gaskets; SS304 bolting (A2-70 hex head screws).
Connections	Flanges to ASME B16.5 Class 150; Class 300, PN 16, PN 40 and JIS 10K in the product code. Face-to-face per the table: ASME B16.10 from 2"; ½" and ¾" to EN 558-1 range 1; 1" and 1½" Swissfluid lengths; 2½", 3" and 6" also in DIN lengths. Horizontal or vertical installation.
Pressure	0.01 psia to 232 psig, depending on size, pressure and temperature; vacuum service. Pressure-temperature chart on the Swissfluid sheet.
Temperature	−40 °F to +400 °F (−40 °C to +204 °C) depending on lining material. Low-temperature or austenitic steels required below +14 °F (−10 °C).
Compliance	FDA-compliant; conformity with the European Pressure Equipment Directive (PED); pressure and tightness testing to EN 12266-1 leakage rate A / API 598; marking on body and name plate to EN 19; material and test certificates to EN 10204 3.1 / 2.2 / 2.1.

Source: Swissfluid USA PM 31 us 2019-11 and 2025-05.

Main features

- Heavy-duty, proven construction, maintenance-free
- Horizontal or vertical installation, flanges to ASME B16.5 Class 150
- No additional flange gaskets: wide, chambered flange sealing surface
- Standard drip ledge indicates even minute flows
- Large sight glass opening for optimum monitoring
- Grounding connection as standard
- Linings high-voltage tested at 35 kV
- FDA-compliant

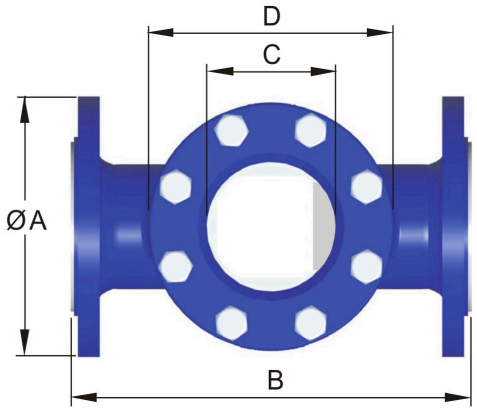
LinedPipe.Com note. Borosilicate and quartz glass are attacked by hydrofluoric acid, hot phosphoric acid and caustic. Not for HF or fluoride-bearing acids. Caution with hot phosphoric acid or caustic: ask us about the FEP protective film.

Options

- **Glass plates** Metal-reinforced (Gr), quartz (Gq) or PN 40 (Gb40) in place of the standard DIN 7080 borosilicate
- **FEP glass protection sheet** FEP protective film. Code Gf
- **Visual flow indicator for gases** PTFE ribbon. Code Op
- **Grounding cable** Code GC
- **Conductive lining** PFA-AS antistatic. Code A86
- **Stainless body** CF8M. Code G15
- **Flange connections** Class 300, PN 16, PN 40, JIS 10K
- **Special coating** RAL color to order. Code RAL
- **Bolting** B7 body screws. Code B7

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Dimensions and ordering code, construction and service



Dimensions, inches

Size	B face-to-face	Ø A flange	Ø C	D	Glass Ø × thickness	Weight lbs
½"	5.12*	3.74‡	1.30	☐ 2.76	1.77×0.39	7.92
¾"	5.91*	4.13‡	1.30	☐ 2.76	1.77×0.39	9.24
1"	6.00*	4.25	1.89	☐ 3.35	2.48×0.39	11.00
1½"	7.00*	5.00	2.56	☐ 4.33	3.15×0.47	16.72
2"	8.00	6.00	3.15	☐ 4.72	3.94×0.59	25.96
2½"	8.50	7.00	3.15	Ø 6.89	3.94×0.59	40.48
3"	9.50	7.50	3.94	Ø 7.48	4.92×0.79	55.00
4"	11.50	9.00	4.92	Ø 8.27	5.91×0.98	99.88
6"	14.00	11.00	7.87	Ø 11.42	8.86×1.18	122.54

Face-to-face to ASME B16.10; * ½" and ¾" are EN 558-1 range 1 lengths, 1" and 1½" Swissfluid lengths that match neither standard. 2½", 3" and 6" also in DIN lengths. Glass sizes converted from the metric edition's millimeters. Flanges to ASME B16.5 Class 150; 2½" and 3" with tapped holes 5/8" UNC, 6" with 3/4" UNC. ‡ DIN-size flange diameter, as Swissfluid's sheet gives it. Source: Swissfluid USA PM 31 us 2019-11; glass from PM 31 en 2019-11.

Note. Pressure-temperature derating on the Swissfluid chart.

Ordering code

Build a code from left to right; a standard unit is **SSP · size · Class 150 · G10 · A85 · Gb**. Some selections require or exclude others; we check every code before it goes to the factory.

Nom. size	**½"–6"** NPS ½" – 6"
Flange connection	**Class 150** ASME B16.5 Class 150 · **Class 300** Class 300 · **PN 16** PN 16 · **PN 40** PN 40 · **JIS 10K** JIS 10K
Body	**G10** WCB carbon steel · **G15** CF8M stainless
Lining body	**A85** PFA · **A86** PFA-AS conductive
Glass plate	**Gb** glass plate PN 16 · **Gb40** glass plate PN 40 · **Gr** reinforced glass · **Gq** quartz glass
Options	**Op** visual flow indicator · **RAL** special coating · **GC** grounding cable · **B7** body screws B7 · **Gf** FEP protective film

Data and codes: Swissfluid USA PM 31 us 2019-11; 35 kV test, FDA, grounding and codes GC, B7 and Gf from PM 31 us 2025-05.

Construction. PFA-lined WCB body and two WCB flanges, RAL 5005; two borosilicate 8488 glass plates to DIN 7080; two C-4400 gaskets; A2-70 stainless hex head screws; A2 stainless name plate and hammer screws; grounding connection.

Typical service. Reliable flow indication for virtually all process media, liquid or gaseous. *LinedPipe.Com note: not for HF or fluoride-bearing acids; caution with hot phosphoric acid or caustic: ask us.*

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Ordering from LinedPipe.Com

Size, series, lining, class and quantity are enough to start. For a quotation send the service conditions (media, concentration, temperature, pressure, flow), the end connections and, for a valve, the actuation you need; we will confirm the ordering code, the installation dimensions and a delivery time.

Request a quote

(251) 625-4949 · info@linedpipe.com · linedpipe.com/contact/
(the online quote form takes valves line by line and attachments).

What to tell us

- Series and size, flange class, and full or reduced port where the series offers both
- Lining, and the ball, disc, glass, seat and elastomer materials where the series has them
- Body material: carbon steel or stainless, as the series offers
- For a valve, the topworks: bare stem, lever, gearbox, pneumatic or electric actuator, fail position, accessories
- Options from the series' ordering code, such as a conductive lining or special bolting
- Certificates: EN 10204 3.1 material certificates and test reports on request

Dimensions

Face-to-face lengths in our valve catalog are stated against ASME B16.10, MSS SP-88, EN 558-1 or EN 12982, as the note under each table says; where a table mixes standards, lengths marked * are not to the US standard. Confirm the installation length on the order acknowledgement before cutting pipe.

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