

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 to DIN EN 558-1 Range 1 / ASME B16.10. Horizontal or vertical installation.
Pressure	0.01 psi to 232 psi, depending on size, pressure and temperature; vacuum service. Pressure-temperature chart on the Swissfluid sheet.
Temperature	–40 °F to +400 °F depending on lining material. Low-temperature or austenitic steels required below +14 °F.
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 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

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

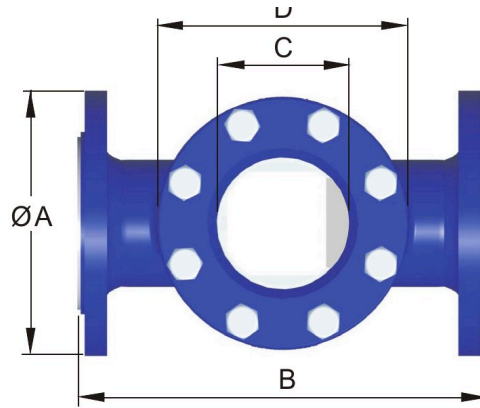
Construction. PFA-lined WCB body and two WCB flanges, RAL 5005; two borosilicate 8488 glass plates to DIN 7080; two C-4400 gaskets; sixteen A2-70 stainless hex head screws; A2 stainless name plate and hammer screws; grounding connection.

Typical service. Reliable flow indication for virtually all process media, liquid or gaseous.

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Dimensions and ordering code

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Dimensions, inches

Size	B face-to-face	Ø C	D	Glass Ø × thickness (mm)	Weight lbs
½"	5.12	1.30	□ 2.76	45 × 10	6.17
¾"	5.91	1.30	□ 2.76	45 × 10	7.05
1"	6.00	1.89	□ 3.35	63 × 10	12.79
1½"	7.00	2.56	□ 4.33	80 × 12	19.40
2"	8.00	3.15	□ 4.72	100 × 15	27.12
2½"	8.50	3.15	Ø 6.89	100 × 15	67.68
3"	9.50	3.94	Ø 7.48	125 × 20	57.98
4"	11.50	4.92	Ø 8.27	150 × 25	79.59
6"	14.00	7.87	Ø 11.42	225 × 25	136.91

Face-to-face to EN 558-1 range 1 or ASME B16.10 as tabulated on the sheet. Flanges to ASME B16.5 Class 150; 2½" and 3" with tapped holes 5/8" UNC, 6" with 3/4" UNC. Source: Swissfluid USA PM 31 us 2025-05.

Note. Body flanges: 2½" and 3" ANSI with threaded holes 5/8" UNC, 6" ANSI with threaded holes 3/4" UNC. 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 2025-05.

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Ordering from LinedPipe.Com

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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 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, full or reduced port, Class 150 or 300
- Lining and ball or disc material, seat and elastomer where they apply
- Body material: WCB carbon steel or CF8M stainless
- Topworks: bare stem, lever, gearbox, pneumatic or electric actuator, fail position, accessories
- Options: conductive lining, grounding strap, chlorine clean, customer tag, special bolting
- Certificates: EN 10204 3.1 material certificates and test reports on request

Dimensions

Face-to-face lengths in this catalog are stated against ASME B16.10 or EN 558-1 as noted; sizes marked * are not ASME B16.10 lengths (the note under each table says what they are). Confirm the installation length on the order acknowledgement before cutting pipe.

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Marspec Technical Products, Inc.
24042 US Highway 98, Fairhope, AL 36532
(251) 625-4949
info@linedpipe.com · linedpipe.com

Swissfluid USA, Inc.

10303 Greenland Court
Stafford, TX 77477
swissfluid.com

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