SST Stainless Steel Sight Glasses

NPS ½" – 6" · ANSI 150 lb flanged (SST-FD) or butt-weld (SST-BW) · CF-8M and CF-3M

swissfluid USA

An unlined stainless steel flow indicator for virtually all process media, liquid or gaseous. A cast CF-8M body for the flanged SST-FD or a welded CF-3M body for the butt-weld SST-BW, with borosilicate window plates to DIN 7080 seated on a PTFE-T primary and C-4400 secondary gasket, a standard drip ledge and a large observation opening.



Design

Sizes	½" – 6" (DN 15 – 150). Other materials or dimensions, e.g. ANSI lengths, on request.
Body	SST-FD flanged: stainless steel casting 1.4408 (CF-8M), one-piece in ½" – 2". SST-BW butt-weld: 1.4404 (CF-3MN); welded bodies have a CF-3M middle part with SS316L (1.4404 or 1.4435) flanges.
Cover flanges	Stainless steel casting 1.4408 (CF-8M).
Glass plates	Borosilicate 8488 to DIN 7080 standard; PN40 (300 lb) special glass, metal-reinforced glass and quartz glass to order. FEP glass protection sheet to order.
Gaskets and bolting	PTFE-T (modified) primary gasket and C-4400 asbestos-free secondary gasket; SS304 bolting (A2-70 hex head screws).
Connections	Flanges to ANSI 150 lb; DIN PN16 / PN40 optional, ANSI 300 lb and JIS 10K in the product code; flanges with groove form N to DIN 2512 to order. Butt-welding ends to EN 12627. Face-to-face FD to DIN EN 558-1 Range 1, BW to DIN EN 12982. Horizontal or vertical installation.
Pressure	0.01 psia to 232 psi.
Temperature	−40 °F to +450 °F (−40 °C to +232 °C).
Compliance	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 32 us 2018-9.

Main features

- Heavy-duty, proven construction, maintenance-free
- Horizontal or vertical installation, flanges to ANSI 150 lb (DIN PN16/40 optional)
- Flanged SST-FD or butt-weld SST-BW body
- Standard drip ledge indicates even minute flows
- Large observation opening
- Double gasket: PTFE-T primary, C-4400 secondary
- Borosilicate window plates to DIN 7080

LinedPipe.Com note. Unlined 316 stainless is not for hydrochloric or hydrofluoric acid, wet chlorine, hypochlorite or chloride-bearing acids. For those, ask us: the PFA-lined SSP suits most of them, but no glass sight glass suits HF or fluoride-bearing acids.

Ordering code

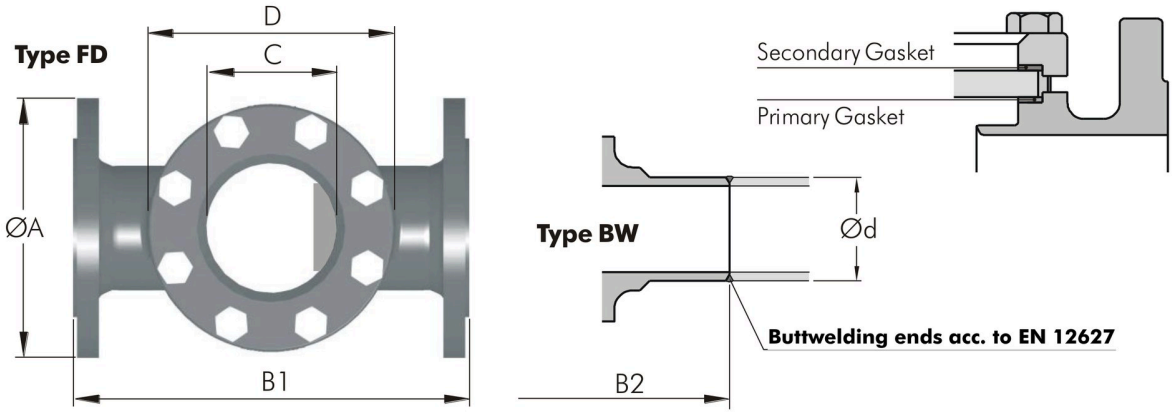
Build a code from left to right; a standard unit is **SST · 2" · ANSI150# · FD · G15 · Gb**. Some selections require or exclude others; we check every code before it goes to the factory.

Nom. size	**½"–6"** NPS ½" – 6" · **DN15–150** DN 15 – 150
Flange conn.	**ANSI150#** ANSI 150 lb · **ANSI300#** ANSI 300 lb · **PN16** PN16 · **PN40** PN40 · **JIS 10K** JIS 10K
Type	**FD** flanged · **BW** butt-weld
Body	**G15** CF-8M · **G14** CF-3M
Glass plate	**Gb** glass plate PN16 · **Gb40** glass plate PN40 · **Gr** reinforced glass · **Gq** quartz glass
Options	**Gf** FEP protection sheet · **Op** visual flow indicator

Data and codes: Swissfluid USA PM 32 us 2018-9.

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Dimensions, options, construction and service



Dimensions, inches · type FD flanged and type BW butt-weld

Size	B1 flanged	B2 butt-weld	Ø A flange	Ø C	Tube Ø d × wall	Glass Ø × thickness	lbs flanged	lbs butt-weld
½"	5.12	5.12	3.74‡	1.30	0.84×0.08	1.77×0.39	5.72	3.30
¾"	5.91	5.91	4.13‡	1.30	1.06×0.09	1.77×0.39	7.48	3.96
1"	6.30	6.30	4.25	1.89	1.33×0.10	2.48×0.39	10.34	5.72
1¼"	7.09	7.09	4.61	1.89	1.67×0.10	2.48×0.39	15.18	6.82
1½"	7.87	7.87	5.00	2.56	1.90×0.10	3.15×0.47	16.28	8.58
2"	9.06	9.06	6.00	3.15	2.37×0.11	3.94×0.59	21.34	11.22
2½"	11.42	11.42	7.00	3.15	3.00×0.11	3.94×0.47	38.50	22.00
3"	12.20	12.20	7.50	3.94	3.5×0.13	4.92×0.79	55.00	34.10
4"	13.78	13.78	9.00	4.92	4.5×0.14	5.90×0.98	83.60	55.00
6"	18.90	18.90	11.00	7.87	6.63×0.18	8.86×1.18	121.00	86.90

All lengths are DIN lengths: B1 per EN 558-1 range 1, B2 per EN 12982; ANSI lengths on request. ‡ DIN-size flange diameter, as Swissfluid's sheet gives it.
Source: Swissfluid USA PM 32 us 2018-9.

Note. Welded bodies have a CF-3M middle part and SS316L flanges; in ½" – 2" the flanged body is a one-piece CF-8M casting and the butt-weld body CF-3M.

Options

- **Glass plates** Metal-reinforced (Gr), quartz (Gq) or PN40 / 300 lb special glass (Gb40) in place of the standard DIN 7080 borosilicate
- **FEP glass protection sheet** Code Gf
- **Visual flow indicator for gases** PTFE ribbon. Code Op
- **Grooved flanges** Groove form N to DIN 2512
- **Flange connections** ANSI 300 lb, PN16, PN40, JIS 10K
- **Butt-weld ends** SST-BW, CF-3M body, ends to EN 12627. Code BW

Construction. CF-8M cast body (FD) or welded CF-3M / SS316L body (BW), two CF-8M cover flanges, two borosilicate 8488 glass plates to DIN 7080, two PTFE-T primary and two C-4400 secondary gaskets, A2-70 stainless hex head screws, A2 stainless name plate and hammer screws.

Typical service. Reliable flow indication for virtually all process media, liquid or gaseous. *LinedPipe.Com note: not for hydrochloric or hydrofluoric acid, wet chlorine, hypochlorite or chloride-bearing acids.*

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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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Version 1.25 · Released 11-17-2026. Product data from Swissfluid literature as cited under each table; subject to change without notice. **Confirm critical dimensions with the order acknowledgement.**