

NPS ½"–6"

Sight Glasses are ideally suited as reliable flow indicators for virtually all existing process media in either liquid or even gaseous state.

Modular Design

Sight Glasses SSP Series are available as DIN- or ANSI-types, with sight glass window plates made of Borosilicate acc. to DIN 7080 as per standard.

The sturdy design bodies are made of cast steel 1.0619 (WCB), coating RAL 5005 signal-blue or stainless steel casting 1.4408 (CF8M), with resistant linings such as PFA or PFA-AS (antistatic).



CE Conformity according to European Pressure Equipment Directive 2014/68/EU (PED)

Main Features

- Heavy-duty, proven construction
- Maintenance-free
- Horizontal or vertical installation, flange connection acc.to ASME B16.5, CL 150
- No additional flange gaskets due to wide and chambered flange sealing surface
- Standard drip ledge indicating even minute flows
- Large sight glass opening for optimum monitoring
- Grounding connection as standard
- FDA-conform

Options

- Metal reinforced glass plates
- Quartz glasses
- FEP glass protection sheet
- Visual flow indicator for gases (PTFE ribbon)
- Grounding cable

Operation Conditions

- Temperature range from –40 °F up to +400 °F, depending on lining material
- Pressure range from 0.01 psi up to 232 psi, depending on size/pressure/temperature

Testing/Marking

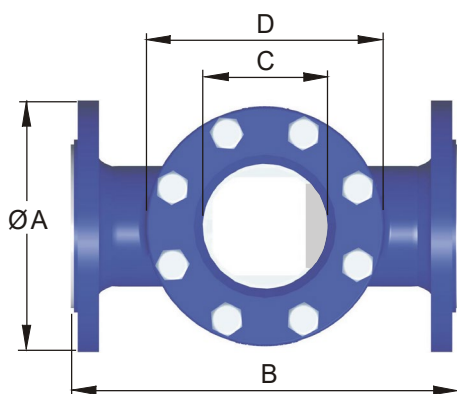
- Pressure- and tightness testing acc. to EN 12266-1, leakage rate A, resp. API 598
- High voltage testing of the plastic linings for freedom from pores at 35 kV
- Marking of valves on body and name plate acc. to EN 19
- Material- resp. test certificates acc. to EN 10204-3.1/2.2/2.1

Pressure-/Temperature-Diagram

Low-temperature or austenitic steels are required for use below 14 °F operating temperature.



Technical Data



Standard Materials of Components

Body	Cast Steel 1.0619 (WCB) 5005 epoxy
Flange	Cast Steel 1.0619 (WCB) 5005 epoxy
Lining	PFA (opt. PFA-AS conductive)
Glass Plate	Borosilikat 8488 acc. to DIN 7080
Gasket	C-4400 asbestos-free
Bolts	SS304

Dimension in inch

NPS Size	ØA	B	ØC	□ØD	Øglass	□lbs
1/2"	3.74	5.12	1.30	□2.76	45 x 10	6.17
3/4"	4.13	5.91	1.30	□2.76	45 x 10	7.05
1"	4.25	6.00	1.89	□3.35	63 x 10	12.79
1 1/2"	5.00	7.00	2.56	□4.33	80 x 12	19.40
2"	6.00	8.00	3.15	□4.72	100 x 15	27.12
2 1/2"	7.00	8.50	3.15	Ø6.89	100 x 15	67.68
3"	7.50	9.50	3.94	Ø7.48	125 x 20	57.98
4"	9.00	11.50	4.92	Ø8.27	150 x 25	79.59
6"	11.00	14.00	7.87	Ø11.42	225 x 25	136.91

F/F acc. to DIN EN 558-1 Range 1 resp. ASME B16.10

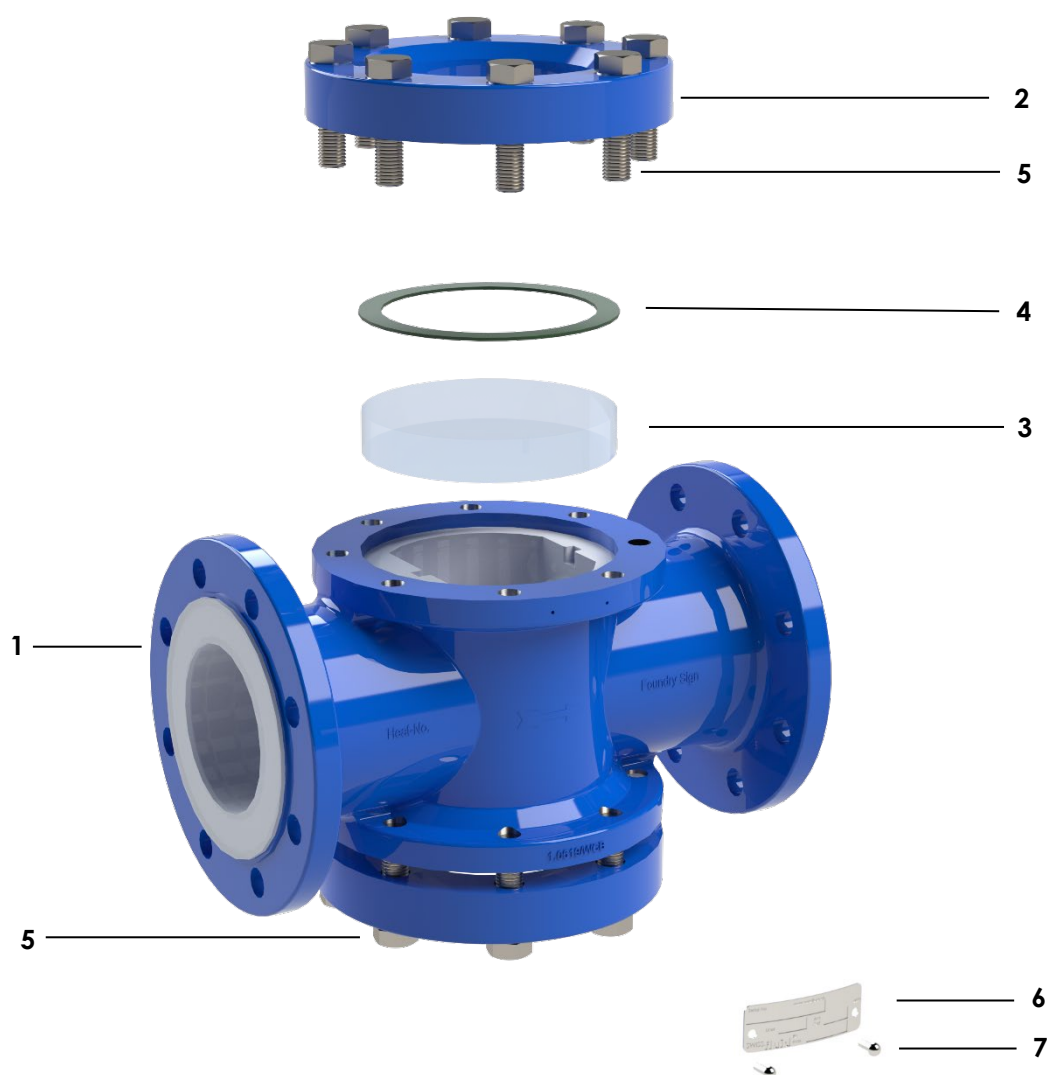
Other sizes and materials upon request

Body flanges: 2 1/2" and 3" ANSI with threaded holes 5/8" UNC, 6" ANSI with threaded holes 3/4" UNC

Standard Version (Picture showing DN 80 PN 16, PFA-lined)

Part list

Sight Glasses complete



Item	Qty.	Description	Material Description	Material No. Description
1	1	Body PFA-lined, RAL 5005	WCB	1.0619
2	2	Flange, RAL 5005	WCB	1.0619
3	2	Glass Plate DIN 7080	Borosilicate	8488
4	2	Gasket	C-4400	
5	16	Hex. Head Screw	A2-70	1.4310
6	1	Name Plate 42 x 14 CE	A2	1.4301
7	2	Hammer Screw 2.49 x 4.76	A2	1.4310

Spezifikation

Project-/Customer Date		Inquiry/Date:		Ref. SF	
Project:		Contact Person:		Phone:	
Company:		Function:		E-Mail:	
Address:		Department:		Mobile:	
ZIP/Place:		Phone direct:			

Operation Conditions

Media/Chemical Composition:			
☐ Liquid	☐ Powdery	☐ Crystallizing	☐ Sticky
☐ Gaseous	☐ Solids ____ %	☐ Viscous	☐ Flow velocity ____ ft/sec
☐ Abrasive	☐ Particle ____ mm	☐ Visc. ____ cp	☐ Flow rate ____ usg/min
Pressure	Temperature	Mode	Installation/Enviroment
max. ____ bar	max. ____ °C	☐ Continous	☐ Horizontal
min. ____ bar	min. ____ °C	☐ _____	☐ Vertical
			☐ _____
			☐ Room dry
			☐ Room humid
			☐ Outdoor
Remarks:			

SSP Product Code

Specification of a complete Sight Glass SSP Series

Product Code	Nom.size	Flange connection	Body	Lining body	Glass plate	Options
SSP						
	NPS ½"-6"	Class 150	G10 WCB	A85 PFA	Gb Glass plate PN 16	Op Visual flow ind.
		Class 300	G15 CF8M	A86 PFA-AS	Gb40 Glass plate PN 40	RAL Special coating
		PN 16			Gr Reinforced glass	GC Grounding cable
		PN 40			Gq Quartz glass	B7 Body screw
		JIS 10K				Gf FEP Protective film