

DN 15–150/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 EN 1092-1, PN 16/40 or 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

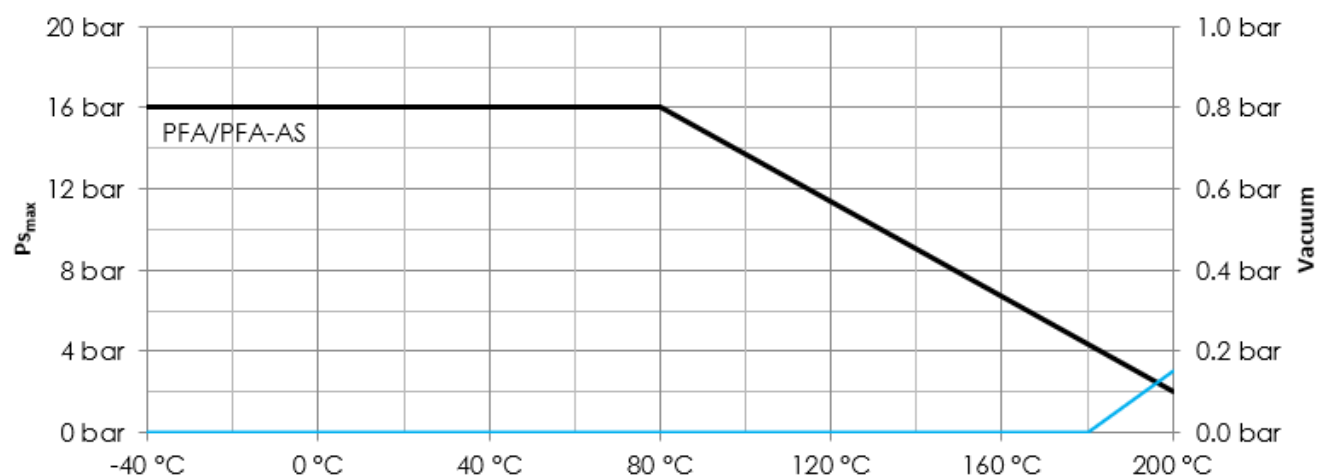
- Temperature range from –40 °C up to +200 °C (–40 °F up to +400 °F), depending on lining material
- Pressure range from 1 mbar up to 16 bar (0.01 psi up to 232 psi), depending on size/pressure/temperature

Testing/Marking

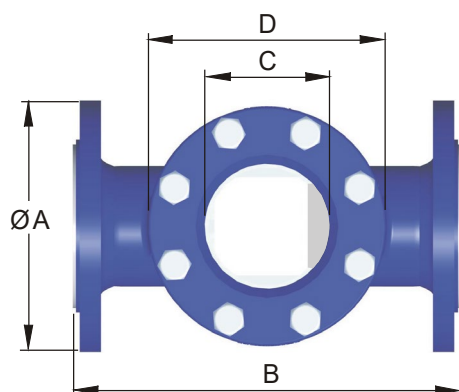
- Pressure- and tightness testing acc. to EN 12266-1, leakage rate A, resp. API 598
- High voltage testing of the plastic linings for freedom from pores at 35 kV
- Marking of valves on body and name plate acc. to EN 19
- Material- resp. test certificates acc. to EN 10204-3.1/2.2/2.1

Pressure-/Temperature-Diagram

Low-temperature or austenitic steels are required for use below -10 °C 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	Borosilicate 8488 acc. to DIN 7080
Gasket	C-4400 asbestos-free
Bolts	A2-70 1.4310

Dimension in mm (lbs = kg x 2.2)

DN/NPS	ØA	B	ØA	B	ØC	□ØD	Øglass	kg	
Size	DIN		ANSI					DIN	ANSI
15/1/2"	95	130	90	130	32	□70	45 x 10	3.1	2.8
20/3/4"	105	150	100	150	32	□70	45 x 10	3.8	3.2
25/1"	115	160	110	152	48	□85	63 x 10	6.0	5.8
40/1 1/2"	150	200	125	178	65	□110	80 x 12	9.3	8.8
50/2"	165	230	150	203	80	□120	100 x 15	12.4	12.3
65/2 1/2"	185	290	180	216	80	Ø175	100 x 15	30.3	30.7
80/3"	200	310	190	241	100	Ø190	125 x 20	28	26.3
100/4"	220	350	230	292	125	Ø210	150 x 25	32.3	36.1
150/6"	285	480	280	356	200	Ø290	225 x 25	67.2	62.1

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

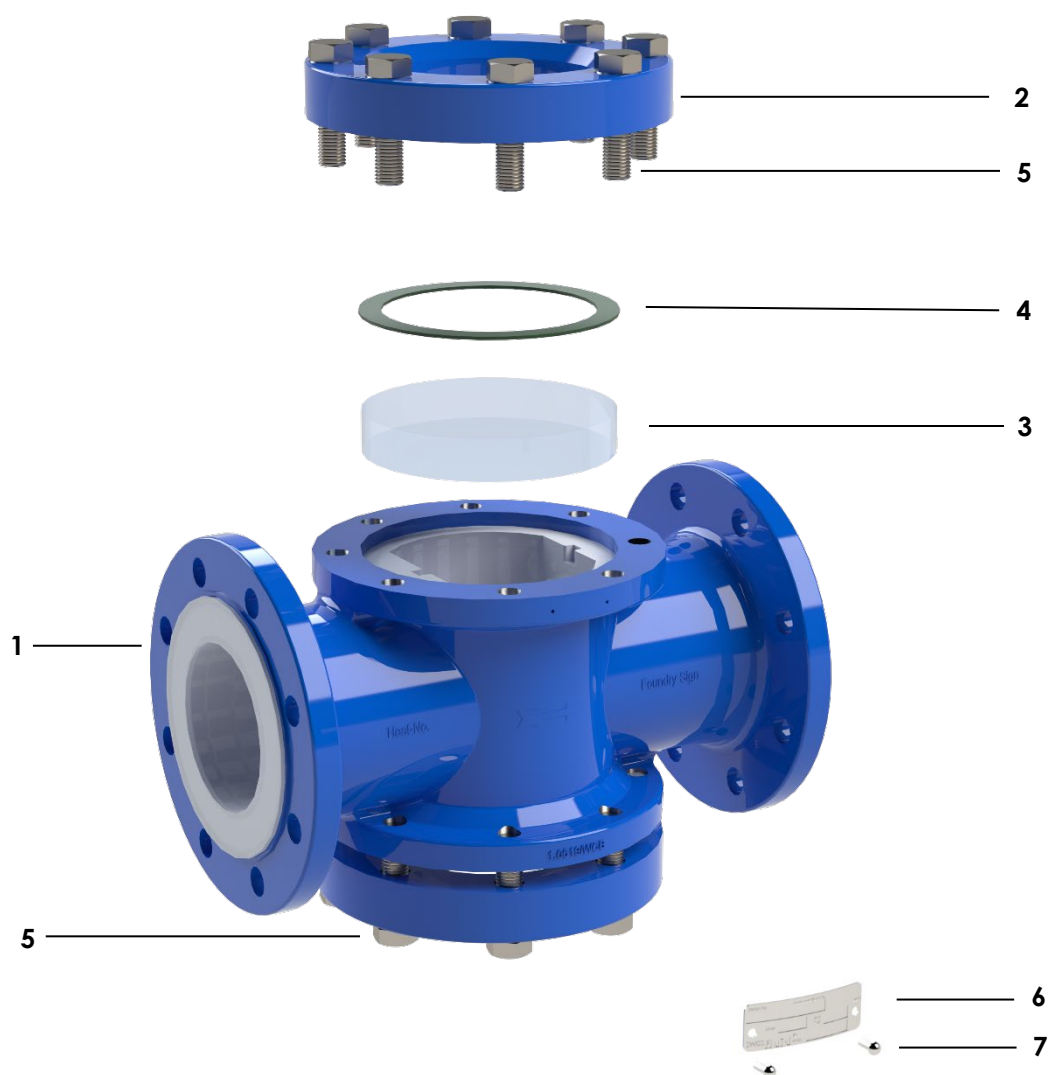
Other sizes and materials upon request

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

Spezification

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	☐ Spec. Grav. ____
☐ Gaseous	☐ Solids ____ %	☐ Viscous	☐ Flow velocity ____ m/s	
☐ Abrasive	☐ Particle ____ mm	☐ Visc. ____ cp	☐ Flow rate ____ m ³ /hr	

Pressure

max. ____ bar

min. ____ bar

Temperature

max. ____ °C

min. ____ °C

Mode

☐ Continous

☐ _____

Installation/Enviroment

☐ Horizontal

☐ Vertical

☐ _____

☐ Room dry

☐ Room humid

☐ Outdoor

Remarks:

SSP Product Code

Specification of a complete Sight Glass SSP Series

Product Code SSP	-	Nom.size 	-	Flange connection 	-	Body 	-	Lining body 	-	Glass plate 	-	Options
		☐ DN 15-150 ☐ NPS ½"-6" 		☐ PN 16 ☐ PN 40 ☐ Class 150 ☐ Class 300 ☐ JIS 10K		☐ G10 WCB ☐ G15 CF8M		☐ A85 PFA ☐ A86 PFA-AS		☐ Gb Glass plate PN 16 ☐ Gb40 Glass plate PN 40 ☐ Gr Reinforced glass ☐ Gq Quartz glass		☐ Op Visual flow ind. ☐ RAL Special coating ☐ GC Grounding cable ☐ B7 Body screw ☐ GF FEP Protective film