

APPLICATION:

Round sight glass fittings are used for observation and illumination of the interior of closed vessels (boilers, tanks, silos, etc.).

Sight glasses of Type 320 according to DIN 28120 are round flanged sockets for welding in or on, each completed with a sight glass plate inserted between the gaskets and screwed firmly.

INSTALLATION NOTE:

After welding the base frame to the pressure vessel, check whether the sealing surface has warped. Reworking may be required! Also observe the specified torques for the screw connections! The operating pressure does not apply to the base flange, this must be verified together with the pressure vessel according to AD 2000 instruction leaflet B9 or equivalent code!

According to DIN 28120

Operating conditions:

Temperature: up to 150 °C with Soda-Lime glass DIN 8902
 up to 280 °C with Borosilicate glass according to DIN 7080 or similar
 up to 400 °C¹ with Borosilicate glass unhardened

Pressure: ≤10/16 bar(g)

¹ higher temperatures on request

Materials:

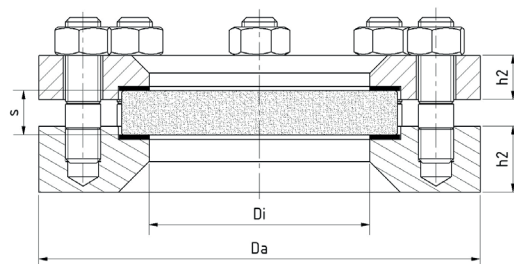
Flange: 1.4541; 1.4571; 1.4404; 1.4539; 1.4435; 1.4301/7

Glass: Borosilicate glass according to DIN 7080 or similar
 Soda-lime glass DIN 8902
 Borosilicate glass unhardened

Gasket:² PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite

Screws: A4-70

Special materials on request
² see INFO gaskets-leaflet



DN	25	40	50	80	100	125	150	200	250 ³	300 ³
Da [mm]	115	150	165	200	220	250	285	340	395	445
Di [mm]	48	65	80	100	125	150	175	225	280	325
h1 [mm]	16	16	16	20	22	25	30	35	40	45
h2 [mm]	25	30	30	30	30	30	36	36	40	45
Glass-Ø [mm]	63	80	100	125	150	175	200	250	300	355
s (PN10) [mm]	10	10	12	15	20	20	25	30	45	60
s (PN16) [mm]	10	12	15	20	25	25	30	-	-	-
Weight [kg] ⁴	2,8	5,4	6,0	9,7	11,3	14,6	22,4	30,7	44,7	62,5

³ similar to DIN 28120; ⁴ PN16

PRODUCTCODE:

Group	TYPE	DN	Base flange*	Glass	Gasket	Variant
11	320	25	1: 1.4541	1: Borosilicate glass (Boro) DIN 7080	1: PTFE	V00: Vacuum
		40	2: 1.4571	2: Soda lime glass (SLG) DIN 8902	2: FKM	G00: Boro with Mica disc
		50	3: 1.4404	3: Quartz glass	3: NBR	
		80	6: 1.4301/7	4: Boro DIN 7080 + PTFE - wiper SGW	4: C4400	S00: Spray device
		100	8: Special	5: Boro DIN 7080 + Silicone - wiper SGW	5: Silicone	
		125		6: SLG DIN 8902 + PTFE - wiper SGW	6: EPDM	
		150		7: SLG DIN 8902 + Silicone - wiper SGW	7: Graphite	
		200		8: Borosilicate glass unhardened	8: Special	Assigned by ACI if required
		250 ³				
		300 ³				

INFO: Unless otherwise stated, the factory standard highlighted is supplied.

*Cover flange according to quotation / order confirmation; ³ similar to DIN 28120

ACCESSORIES:

- Wiper SGW or SWII with PTFE or silicone wiper blade
 - Spray device SVI
 - LED lights, EX and Non-EX areas
 - O-Ring gasket (suitable for vacuum)⁵
 - FEP protective screen (for higher pH-values)
 - PLEXIGLAS® impact protection
 - VA perforated plate impact protection
 - Double glazing (320D)
 - Mica protection (up to 320 °C with borosilicate glass DIN 7080)
- ⁵ depending on environmental variables

EXAMPLE:

11-320-100-2-1-7-000 equivalent to:

ACI Type 320

DN 100 PN 16

Base flange made of 1.4571

cover flange made of 1.4571

Borosilicate glass DIN 7080

Gasket C4400

Standard design

- additional accessories optional



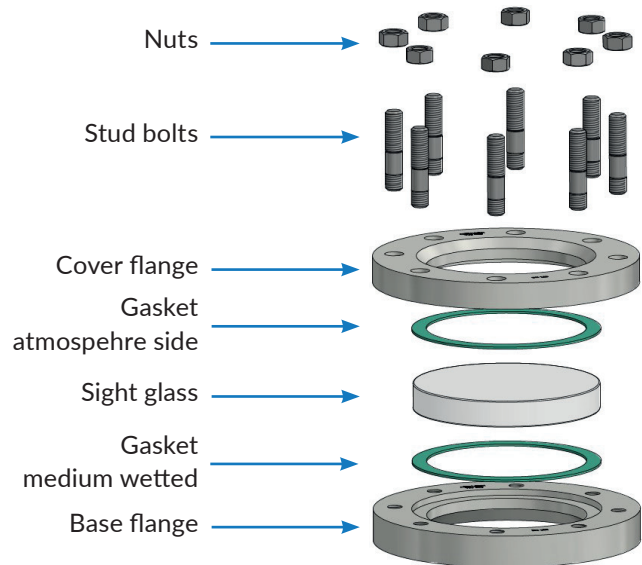
Wiper SGW



Spray device SVI



Lights


RECOMMENDATION:

For aggressive media or steam, mica discs should be used to protect the glass.

20220325
 Technical changes and errors reserved!

