

APPLICATION:

Observation and illumination of the interior of closed vessels (boilers, tanks, silos, etc.). Sightglasses are round flange sockets for welding into or onto the vessel, each complete with a firmly screwed sightglass plate inserted between the gaskets.

Use for **vacuum vessels** is easily possible due to the O-ring sealing.

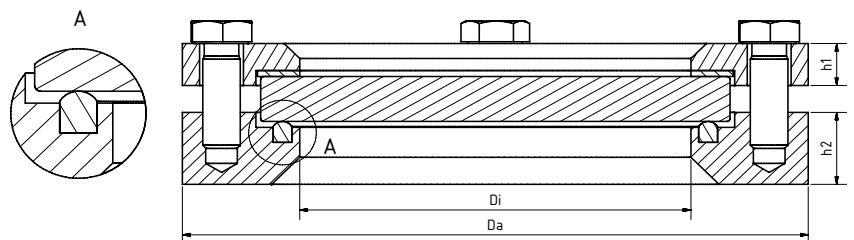
INSTALLATION NOTE:

After welding the base flange onto/into the pressure vessel, the sealing surface must be checked for deformations! Reworking may be required! Observe the listed torque values for remounting the cover flange! The pressure rating does not consider the base flange. This will have to be audited together with the pressure vessel according to AD 2000 instructions B9 or equivalent standard!

Similar to DIN 28120
Lightweight design
vacuum-suitable
($\Delta P = -1^1$ bis 2.5 bar)

Operating conditions:

Temperature: (depending on glass and gasket)	150 °C 280 °C	
Pressure:	-1 ¹ bis 2,5	Bar



Werkstoffe:

Flange:	1.4571
Glass:	Borosilicate glass DIN 7080 Soda-lime glass DIN 8902 Borosilicate glass untempered
Gasket:	O-ring made of PTFE; FKM; NBR; Silicone; EPDM or acc. to requirements (special)
Screws:	A4-70
Special materials on request	

DN	50	80	100	125	150	200
Da	150	175	200	220	250	300
Di	80	100	125	150	175	225
h1	12	14	14	16	16	16
h2	24	24	24	24	24	24
kg	3,8	5,2	6,1	7,2	8,9	11,5
Nm	37 ²	52 ²	63 ²	44 ²	48 ²	55 ²
¹ depending on environmental variables ² PTFE gasket						

PRODUCTCODE:

Group	TYPE	DN	Base flange*	Glass	Gasket	Variant
11	318V	50 80 100 125 150 200	1: 1.4571	1: Borosilicate glass (Boro) DIN 7080 2: Soda lime glass (SLG) DIN 8902 3: Quartz glass 4: Boro + PTFE wiper 5: Boro + silicone wiper 6: SLG + PTFE wiper 7: SLG + silicone wiper 8: Borosilicate glass untempered	1: PTFE 2: FKM 3: NBR 5: Silicone 6: EPDM 8: Special	Assigned by ACI if required

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

*Cover flange according to quotation / order confirmation.

SPECIAL DESIGNS/OPTIONS:

- a) Wiper SWI with PTFE or silicone Wiper blade
- b) LED or halogen lights, ATEX-certified, EX
- c) High-temperature version with quartz glass or untempered Boro up to 400°C, higher on request
- (d) FEP protective screen

EXAMPLE:

11-318V-100-1-1-1-00 equals the product code:

ACI Type 318V
DN100
Base flange 1.4571
borosilicate glass
O-ring gasket PTFE
standard version



RECOMMENDATION:

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