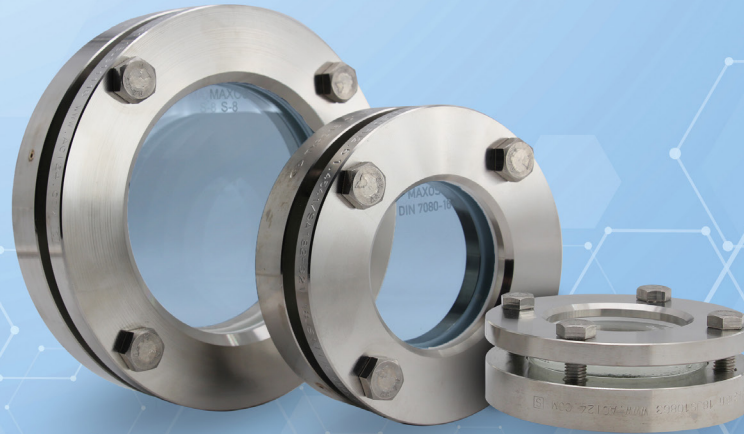




Similar to DIN 28120
lightweight version vacuum-suitable²

USE:

Round sight glasses are used to observe and illuminate the inside of closed vessels (boilers, tanks, silos, etc.). Sight glass fittings of type 318V are round flanged sockets for welding in or on, each completed with a sight glass plate inserted between the gaskets and screwed tight. Due to the D-ring (up to DN 125) or O-ring gasket, use for **vacuum vessels** is possible without any problems.

INSTALLATION INSTRUCTIONS:

After welding in the base flange, check whether the gasket surface has warped. If necessary, this must be reworked! Also observe the specified torques for the screw connection! The operating pressure does not apply to the base flange; this must be tested together with the pressure device according to AD leaflet B9!

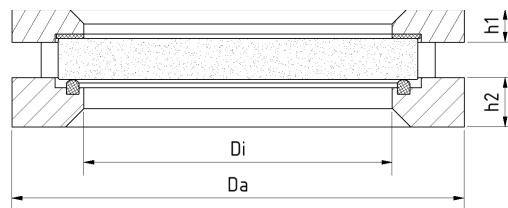
OPERATING CONDITIONS

Temperature: (depending on glass and gasket)	≤ 150°C	Soda-lime glass (DIN 8902 or similar)
	≤ 200°C ¹	Borosilicate glass (DIN 7080 or similar)
Pressure:	-0,9 bar(g) ² to 2,5 bar(g)	

1) Limited by gasket

2) Depending on environmental variables

DRAWING:



MATERIALS

Base flange:	1.4571
Glass:	Borosilikatglas (DIN 7080 o.ä.), Natron-Kalk-Glas (DIN 8902 o.ä.)
Gasket: ³	PTFE; FKM; NBR; Silicone; EPDM
Screws:	A4-70
Special materials on request	

3) See „INFO Gaskets“

DN	50	80	100	125	150	200	300
Da [mm]	150	175	200	220	250	300	400
Di [mm]	80	100	125	150	175	225	305
h1 [mm]	12	14	14	16	16	16	20
h2 [mm]	24	24	24	24	24	24	24
Weight [kg]	3,4	4,8	5,7	6,6	8,3	10,8	20,8

PRODUCT CODE:

Example to explain the code composition

11 - 318V - 100 - 1 - 1 - 1 - 000

GROUP	TYPE	NOMINAL SIZE	BASE FLANGE ¹	GLASS	GASKET	VARIANT
11	318V	DN 50	1) 1.4571	1) Borosilicate glass according to DIN 7080 or similar	1) PTFE	000) Standard
		DN 80		2) Soda-lime glass according to DIN 8902 or similar	2) FKM	
		DN 100		4) Borosilicate glass ² + PTFE wiper SGW	3) NBR	
		DN 125		5) Borosilicate glass ² + Silicone wiper SGW	5) Silicone	
		DN 150		6) Soda-lime glass ³ + PTFE wiper SGW	6) EPDM	
		DN 200		7) Soda-lime glass ³ + Silicone wiper SGW	8) Special	
		DN 300				

1) Cover flange according to offer/ order confirmation

2) Similar to DIN 7080

3) Similar to DIN 8902



Unless otherwise stated, the highlighted factory standard is supplied.

EXAMPLE:

11-318V-100-1-1-1-000 equivalent to:

ACI Type 318V

DN 100

Base flange made of 1.4571

Cover flange made of 1.4541

Borosilicate glass DIN 7080

Gasket PTFE

Standard version

- additional equipment optional

CONSTRUCTION:

Screws

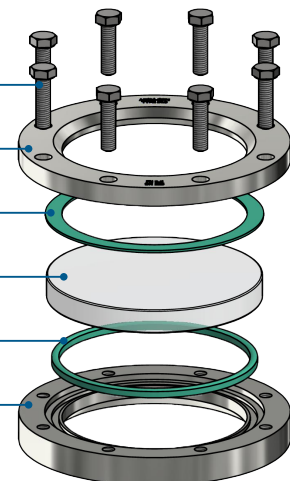
Cover flange

Gasket (on the atmosphere side)

Sight glass

Gasket (on the media side)

Base flange



QUICK OVERVIEW:



-0,9 bar(g)¹ to 2,5 bar(g)



heat-resistant up to
200 °C



for liquid
media



for gaseous
media



Nominal size
DN 50 - 300



Customized products
possible



special gasket
materials possible



Additional equipment
available

OPERATING CONDITIONS:

Operating conditions depend on the
choice of glass and gaskets:

		SIGHT GLASS		GASKETS				
		Soda lime glass (DIN 8902 or similar)	Borosilicate glass (DIN 7080 or similar)	PTFE max. 200 °C	FKM max. 200 °C	NBR max. 80 °C	Silicone max. 180 °C	EPDM max. 130 °C
TEMPERATURE	up to 80 °C	✓	✓	✓	✓	✓	✓	✓
	up to 130 °C	✓	✓	✓	✓	✗	✓	✓
	up to 150 °C	✓	✓	✓	✓	✗	✓	✗
	up to 175 °C	✗	✓	✓	✓	✗	✓	✗
	up to 200 °C	✗	✓	✓	✓	✗	✗	✗
PRESSURE	-0,9 bar(g) ¹ to 2,5 bar(g)	✓	✓	✓	✓	✓	✓	✓

✓ suitable ✗ unsuitable

¹⁾ Depending on environmental variables

OPTIONAL EQUIPMENT:



Wiper SGW

> with PTFE, Silicone, EPDM or FKM wiper blade



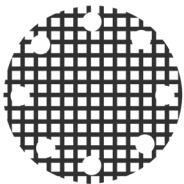
FEP protective screen/ coating

> for high pH values

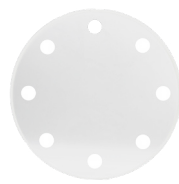


LED light

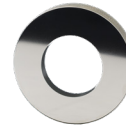
> for Ex and non-Ex areas



Grid impact protection window¹



PLEXIGLAS® impact protection



Metal fused safety sight glass

> for chemical use

¹) Punching on customer request