

Pressure vessel sight glass NB/T47017-2011

NB/T47017 "Standard for Pressure Vessel Sight Glass" Released by the National Energy Administration on July 1, 2011, The NB/T47017 "Pressure Vessel Sight Glass" standard combines multiple styles such as HGJ51-502-1986 "Pressure Vessel Sight Glass", HG/T21575-1994 "Sight Glass with Light", HG/T21505-1992 "Combination Sight Glass", etc. into one style, And significant improvements have been made, including the addition of DN200 mirror specifications, increased usage pressure for some mirrors, eliminated mirror flushing holes, adopted flushing devices according to foreign standards, and added mirror specifications with spotlights.

Common materials: Q235, Q345R, 304, 304L, 316, 316L, 2205, 2507, etc pressure resistant performance: Conventional 0.6~2.5Mpa, can be customized with 2.5~70Mpa ultra-high voltage mirror.

Connection method:

- A. One method is to weld the edge of the mirror base to the container shell or head.
As shown in Figure 1
- B. One method is to clamp and connect the mirror base with the container's matching flange.
As shown in Figure 2

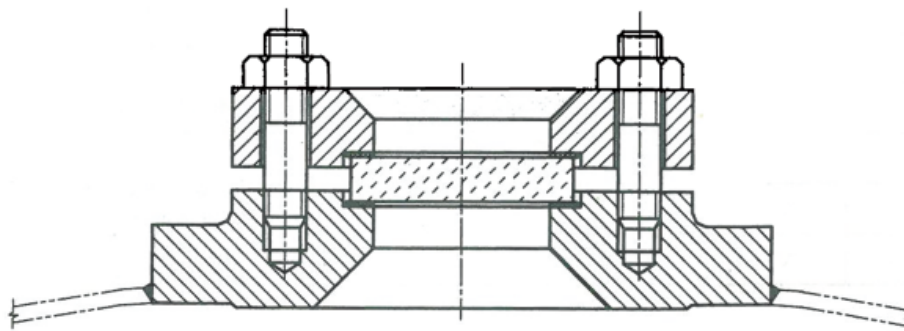


Figure 1: Directly welded to the container shell

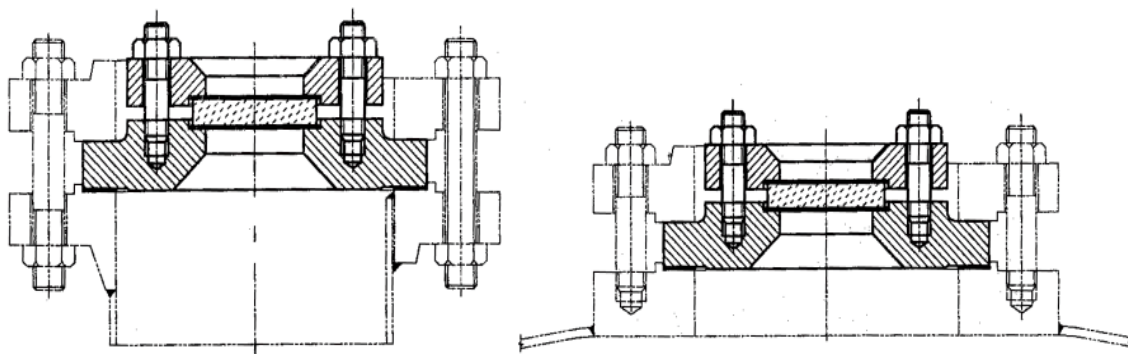


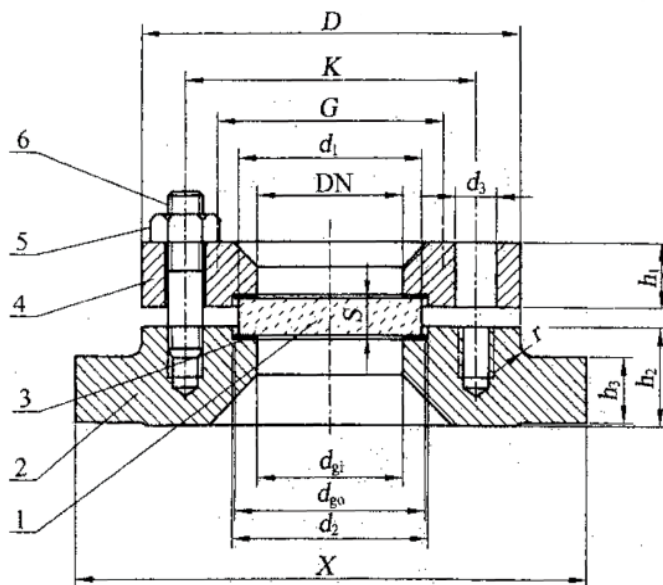
Figure 2: Paired with container, flange clamping link type

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NB/T47017-2011 Pressure Vessel Sight Glass

As a standard combination component, the mirror is composed of mirror glass, mirror base, sealing gasket, clamping ring, nut, and stud light,

The basic form is shown in the following figure:



Basic types of mirrors

1. Mirror glass

4- Compression ring

2- Mirror seat

5-Nut

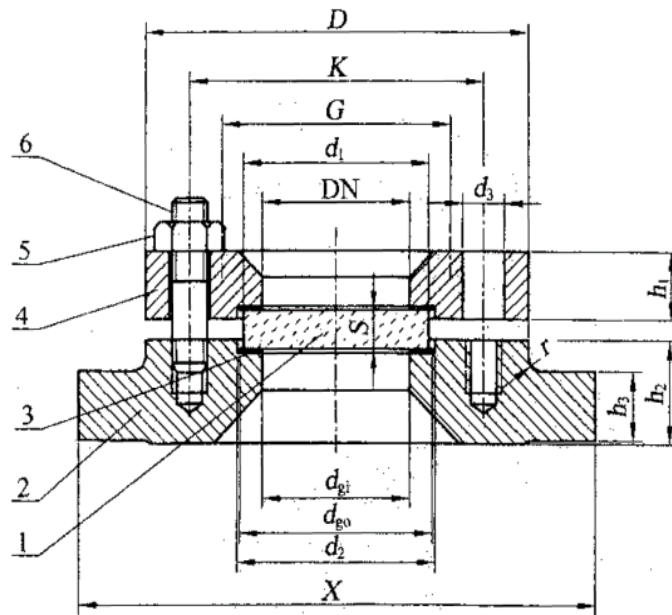
3- Sealing gasket

6-Double headed stud

Size chart

unit: mm

DN	PN Mpa	sight glass							glass		seal pad		Stud		Weight kg
		X	D	K	G	h ₁	h ₂	h ₃	d ₁	S	d _{g1}	d _{g0}	n	thread	
50	1.0	175	115	85	80	16	25	20	65	10	50	67	4	M12	5.4
	1.6					16				10					5.4
	2.5					20				12					5.6
80	1.0	203	165	125	110	16	30	25	100	15	80	102	4	M16	8.6
	1.6					16				15					8.6
	2.5					20				20					9.2



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4- Compression ring

2- Mirror seat
5- Nut

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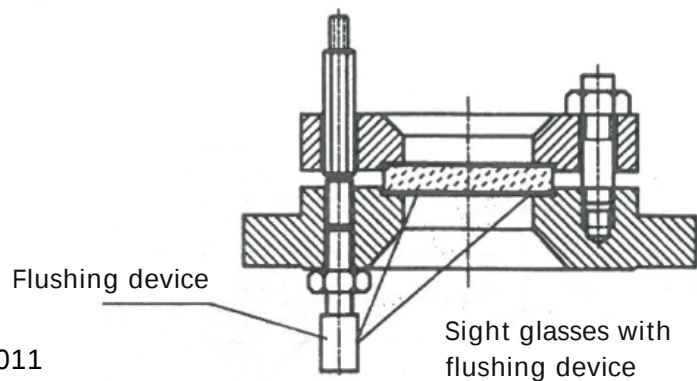
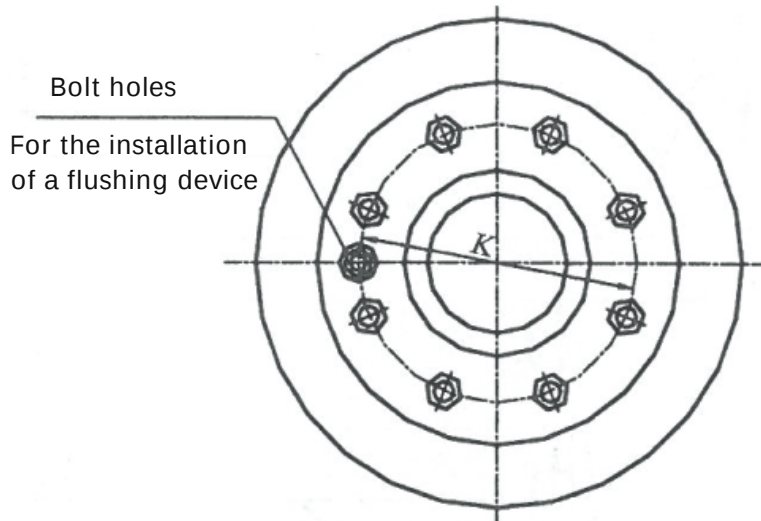
Size chart

unit: mm

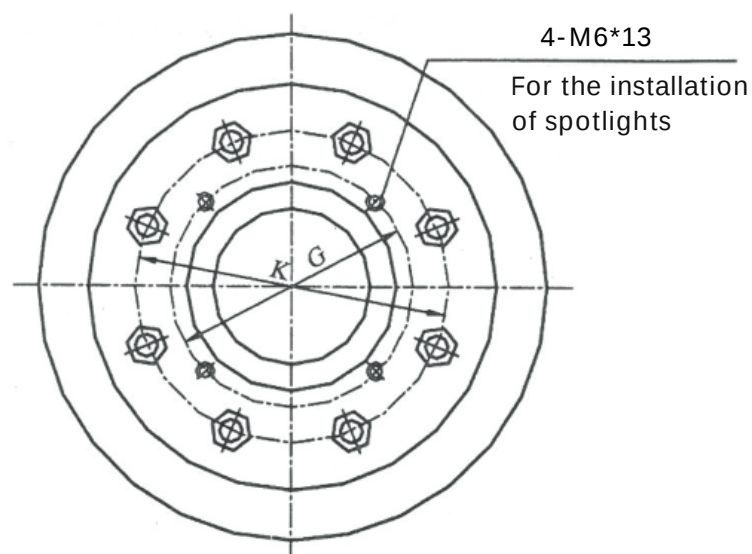
DN	PN Mpa	sight glass							glass		seal pad		Stud thread		Weight kg
		X	D	K	G	h ₁	h ₂	h ₃	d ₁	S	d _{g1}	d _{g0}	n		
100	1.0	259	200	160	135	20	30	25	125	15	100	127	8	M16	14.1
	1.6					20				20					14.2
	2.5					25				25					15.1
125	0.6	312	220	180	160	18	30	25	150	20	125	152	8	M16	18.2
	1.0					22				20					18.7
	1.6					22				25					18.8
150	0.6	312	250	210	185	18	30	25	175	20	150	177	8	M16	18.2
	1.0					25				20					20.1
	1.6					25				25					20.3
200	0.6	363	315	270	240	20	36	30	225	25	200	227	8	M20	27.4
	1.0					35				30					33.2

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According to the optional flushing device,
it is used for jet cleaning on the inner side of the sight glass.



Pressure vessel sight glass NB/T47017-2011
Spotlight installation location



Installation position of the spotlight on the sight glass compression ring

LUMIGLAS®

Rumi sprinklers

Suitable for round sight glasses DIN28120 or similar

Installation:The sight glasses are fastened with sealing bolts to fasten the upper and lower flanges

Scope of use:It is necessary to continuously and automatically clean the sight glass lenses; Fit the container to be preventedExplosion and non-explosion zones operate under pressure or vacuum.

Operating conditions: Suitable for installation on sight glasses.

Combination:It can be combined with a Rumi spotlight and a scraper at the same time. Mirror glassSpecial attention should be paid to the maximum temperature and the stability of temperature changes!

Material:

Metal fittings : Stainless steel 1.4571

Gasket : PTFE

Scope of delivery : Nozzle, locknut, two gaskets,Pipe connector 10*1.5mm and installation instructions

Part Material Layered Introduction

No	parts	Material
1	Connecting tabs	Stainless steel 1.4571
2	Seals	PTFE
3	Locknut	Stainless steel A4
4	Nozzle	Stainless steel 1.571

Size

The Rumi nozzle is suitable for use with all standard sight glass units.It can also be customized according to customer requirements.

The following must be communicated at the time of ordering: e.g

Rumi nozzles, No. 1.1098.005.91To order with other sight mirror units, be sure to inform them of their model and construction:

- 1.Sight mirror device (DN/PN), material
- 2.Type (borosilicate/soda-lime) and size of sight lens lenses

