

MV series screw-in viewport

Application:

Screw-in sight glass with a welded flange, engineered for observation in bioreactors, laboratory mixers, filters, process tanks, separators, pipes, and other enclosed environments. Especially well-suited for the pharmaceutical and food industries, including breweries and dairies.

Terms of Service:

- Pressure: 6 bar (higher pressure available upon request), vacuum
- Maximum temperature: Standard assembly with flat gasket and flat sealing surface: up to 280°C

Possible combinations:

- Compatible with various Lumiglas luminaires, the Lumiglas SW1
- wiper is available for DN 50 and larger. A combination of luminaire and wiper is feasible starting from DN 125.

Potential configurations

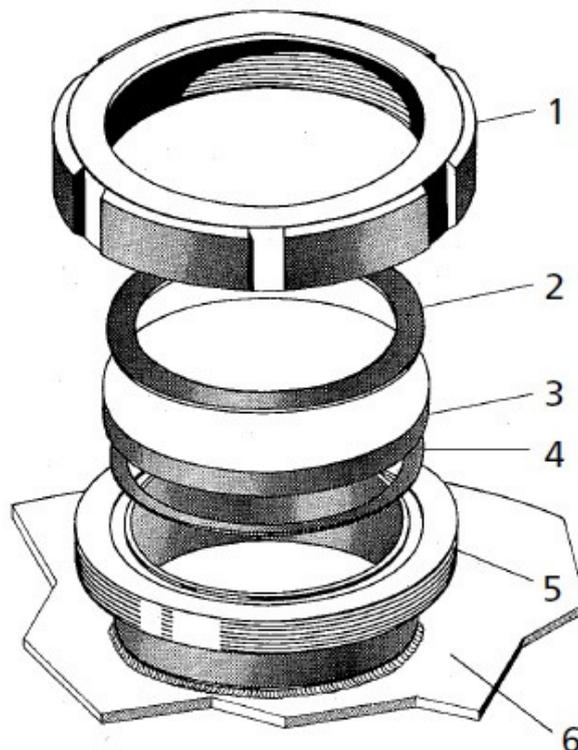
- Compatible with explosion-proof (ATEX) or standard projectors.
- Counter-flanges featuring threaded holes for securing projectors.

Materials and Components:

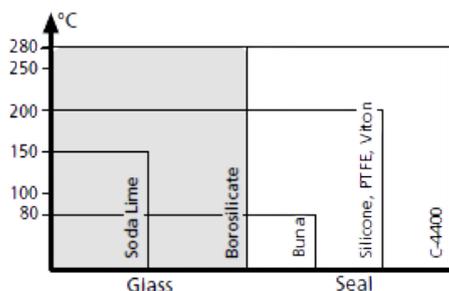
1. Split nut: Stainless steel 1.4301, 1.4307 2. Flat gasket: KLINGERSil C-4400 3. Viewing window:

- Tempered soda-lime glass (DIN 8902) – Maximum temperature 150°C
- Tempered borosilicate glass (DIN 7080) – Maximum temperature 280°C

4. O-ring: Viton, PTFE, Perbunan (NBR), Silicone, EPDM
 5. Welding nozzle: Stainless steel 1.4301, 1.4307, 1.4404
 6. Container wall: Material based on application.



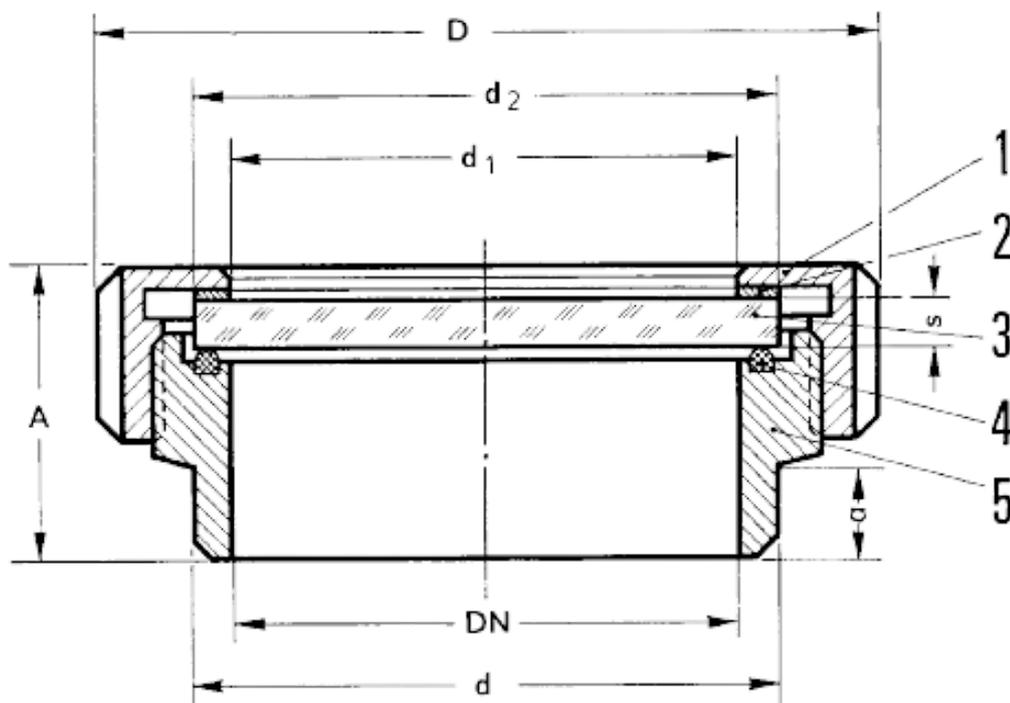
The temperature chart:



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Islandomi nal	DN	25	32	40	50	65	80	100	125	150
Manhole diameter	D1	26	32	38	50	66	81	100	125	150
Glass	D2	40	45	50	63	80	94	113	142	165
	S	10	10	10	12	12	12	15	15	15
Connection	D	63	70	78	92	112	127	148	178	210
	d	29	35	41	53	70	85	104	129	154
	A	40	40	40	45	53	58	68	58	65
	a	12	16	16	19	21	23	33	19	19

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JOINT PLATE	CE 1935 - 2004	FDA	USP VI	87/88	USP 121°	THIS IS BSE	T°
EPDM	Option	Yes	Yes	Yes	Yes	Yes	-40/150°C
VITON	Option	Yes	/	/	/	/	200°C
PTFE	Option	Yes	Yes	/	Option	Yes	250°C
KLINGER SCREEN	/	/	/	/	/	/	250°C
TOP CHEM	Yes	Yes	/	/	/	/	260°C
GYLON	/	Yes	Yes	/	Option	Option	260°C
PGAC	Yes	Yes	/	/	/	/	-220/240°C
SILICONE	Option	Yes	Yes	/	/	/	200°C
GRAPHITE PSM	/	/	/	/	/	/	500°C

O-RING	CE 1935 - 2004	FDA	USP VI	87/88	USP 121°	THIS IS BSE	T°
EPDM	Yes	Yes	Yes	option	option	Yes	-40/150°C
VITON	Yes	Yes	Yes	/	/	/	200°C
VITON FEP	Yes	Yes	Yes	88	/	Yes	-20/200°C
SILICONE	Yes	Yes	Yes	Option	option	Yes	200°C
KALREZ	/	Yes	Yes	88	Yes	/	330°C