

Lumiglas aseptic screw-in fitting for MV-S view port

Application:

Enables visual observation inside process equipment such as bioreactors, laboratory mixers, filters, tanks, agitated reactors, separators, piping, and other sealed systems. Particularly suited to aseptic environments and to the pharmaceutical and food industries.

Operating conditions:

- Pressure: up to approx. 25 bar.

Temperatures:

Temperature: approx. 300°C at the fitting, depending on the material of the Metaglas disc's metallic envelope.

Component materials: Referenced in the diagram opposite.

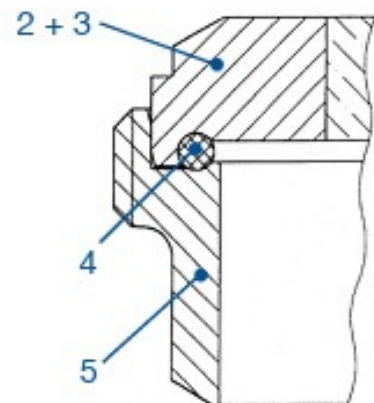
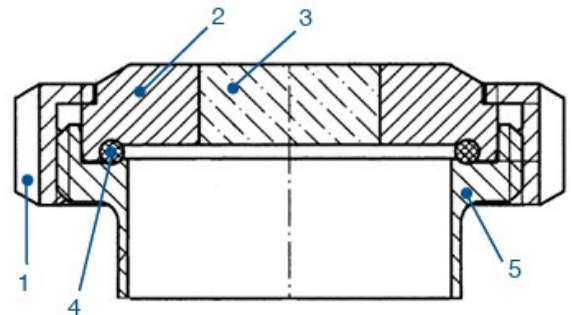
- Part 1: bp mv nut
- 2/3: bp mv nut
- 4: Gasket
- 5: Weld-on socket
- Materials: stainless steel 1.4301 (1.4307) or 1.4404. Metallic envelope (alternative): 1.4462 up to 280°C, 2.4602, 2.4605, 2.4610 up to 300°C. Borosilicate glass. Pressure: up to 25 bar. Gaskets: EPDM, HNBR, FKM, MVQ. Stainless steel 1.4404 and 1.4435.

Mounting:

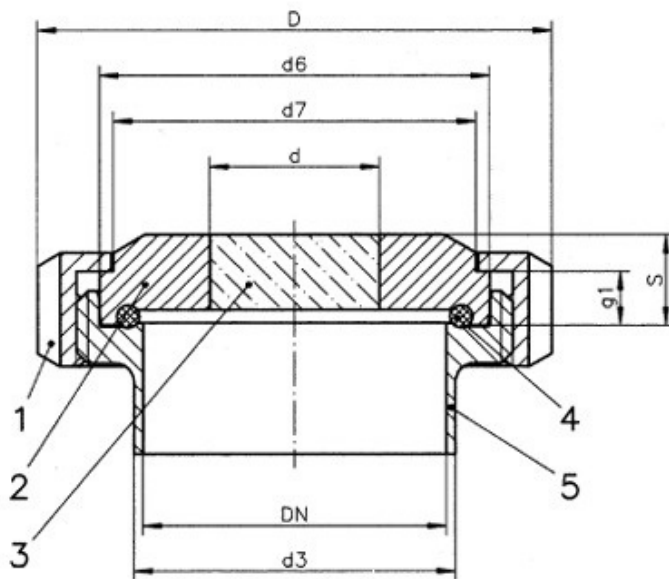
- After welding the socket (5) into the tank wall, position the gasket (4) and the Metaglas® discs (2) and (3) in the socket housing in the order shown, then tighten the nut (1).

Attention:

Check and make sure that the metal-clad glass discs (2 + 3) and the O-ring (4) are correctly positioned in the socket fitting (5) before tightening.



Dimensions and electrical data of the Lumiglas MV-S aseptic screw-in view port fitting



- 1.bp mv nut
- 2.Metal-clad glass
- 3.Metal-clad glass
- 4.O-ring
- 5.Weld-on socket

Size		1	2	3	4	5
Nominal bore	DN	40	50	65	80	100
Fitting		78	92	112	127	148
Fitting	d3	41	53	70	85	104
O-ring		40x5	52x5	68x5	83x5	102x5
Viewing Ø	d	28	34	37	47	55
Outer Ø under the shoulder	d6	54.9	66.9	84.9	98.9	118.9
Outer Ø approx. upper side	d7	48	61	79	93	114
Total thickness	s	14	15	20	20	25
Thickness	g1	10	11	12	12	15
Approximate pressure	bar	25	25	16	16	10

Possible combination:

Combination with various Lumiglas sterile floodlights is possible, in both Ex and non-Ex environments.

Ordering information:

- Nominal bore: DN 80
- Nominal pressure (PN): max. 16 bar
- Temperature: 300°C

