

Lumiglas Aseptic Screw Connection for MV-S Inspection Chamber

Application:

Facilitates visual inspection of the interior of process equipment, including bioreactors, laboratory mixers, filters, tanks, stirred reactors, separators, pipelines, and other typically closed systems. Especially appropriate for aseptic environments as well as the pharmaceutical and food sectors.

Operating conditions:

- Pressure: up to approximately 25 bars.

Temperatures:

Temperature: approximately 300°C at the junction, contingent upon the composition of the metal casing of the Metaglas disc.

Component materials: As shown in the view opposite.

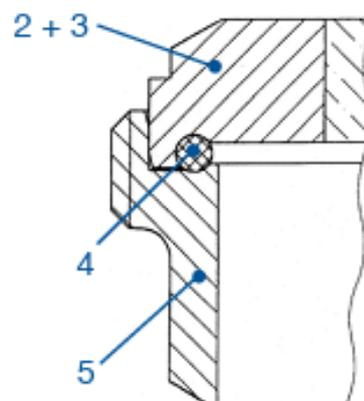
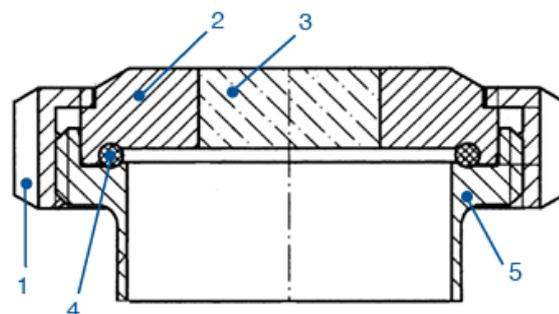
- Item part: 1. Nut type BP MV
 - 2/3. Nut type bp mv
 - 4. Joint
 - 5. Soldering platform
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- Materials: Stainless steel: 1.4301 (1.4307) or 1.4404 Metal casing (alternative): 1.4462 up to 280°C 2.4602, 2.4605, 2.4610 up to 300°C Borosilicate glass
 - Pressure: approximately 25 bar Seals: EPDM, HNBR, FKM, MVQ Stainless steel 1.4404 or 1.4435

Montage:

- Following the welding of the base (5) to the tank wall, the gasket (4) and the Metaglas® discs (2) and (3) are positioned within the base housing for welding in the specified sequence, after which the nut (1) is secured.

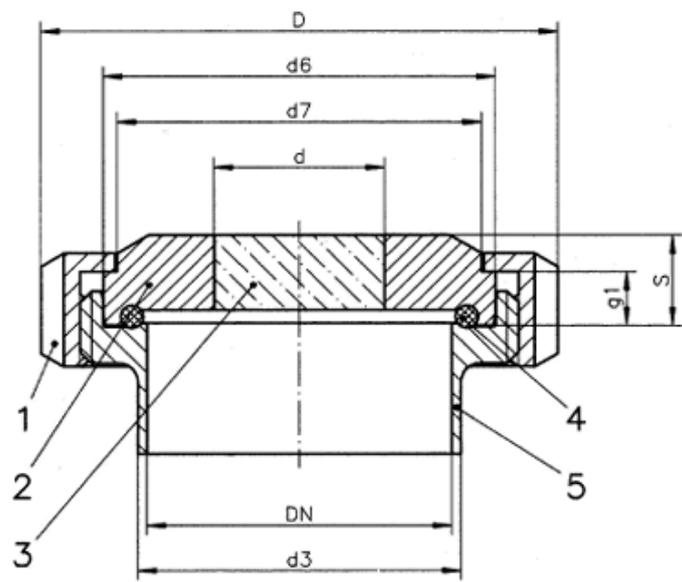
Attention:

Verify that the fused metallized glass discs (2 + 3) and the O-ring seal (4) are accurately aligned within the solder base fitting (5).



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Dimensions and electrical specifications of the Lumiglas MV-S aseptic inspection chamber with screw connection.



1. Ecrou type bp mv
2. Verre metal fusionné
3. Verre metal fusionné
4. Joint O ring
5. Embase à souder

Size		1	2	3	4	5
Passage nominal	DN	40	50	65	80	100
connection		78	92	112	127	148
connection	d3	41	53	70	85	104
O-ring		40x5	52x5	68x5	83x5	102x5
Ø visualisation	d	28	34	37	47	55
External Ø beneath the side	d6	54.9	66.9	84.9	98.9	118.9
Approximately outer diameter of the upper side	d7	48	61	79	93	114
Total thickness	s	14	15	20	20	25
Thickness	g1	10	11	12	12	15
Estimated pressure	bar	25	25	16	16	10

Possible combinations:

The integration of various Lumiglas sterile luminaires is feasible in both Ex and non-Ex environments.

Order data:

- Passage nominal: DN 80
- Nominal pressure (PN): maximum 16 bar
- Temperature: 300 degrees Celsius

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