

METAGLAS®

Metaglas Sight Glass Discs Type 77 for Through Flow Sight Glass Fittings

Data sheet VM8.02

Metaglas – the ultimate in sightglass safety

Metaglas is the strongest and most secure glass for visual flow indicator applications. The Mechanically pre-stressed glass fused to steel construction provides levels of safety and length of service far beyond that offered by any conventional sight glasses.

Applications

As a replacement for conventional sight glasses in through flow sight glass fittings.

Advantages

- Reliability against catastrophic failure - the possibility of sudden unexpected rupture is totally excluded
- High resistance to bending and over-tightening offers simple fast installation with no risk of breakage.
- Extreme resistance to impact, pressure and temperature.
- Reusable in the same or other applications - conventional glass is not
- Wide acceptance in the European & American chemical industries

Operating Conditions

Temperature: -60°C to +300°C

Pressure: Up to 64 bar
Higher pressures possible.

Approvals and Technical Data

Manufactured and tested in conformance with:

- Directive for pressure equipment 97/23/EG 02/98, Module H/H1 (DIN/EN/ISO 9001)
- AD Standards W0/TRD 100 Factory Mutual Approval
- Sight glass fused to metal conforming to DIN 7079
- Borosilicate glass to DIN 7080
- Materials to Vd TÜV specifications and the DIN/EN designated standards.

Material Certificates

Certificate of Conformity to EN 10204-3.1B (or 3.1A at extra cost)

<u>Ring Materials</u>	<u>Operating Temperatures</u>
Carbon Steel (1.0570)	-10°C to 300°C
Duplex Stainless Steel (1.4462)	-30°C to 280°C
Hastelloy C-4 (2.4610)	-60°C to 300°C
Hastelloy C-22 (2.4602)	-60°C to 300°C

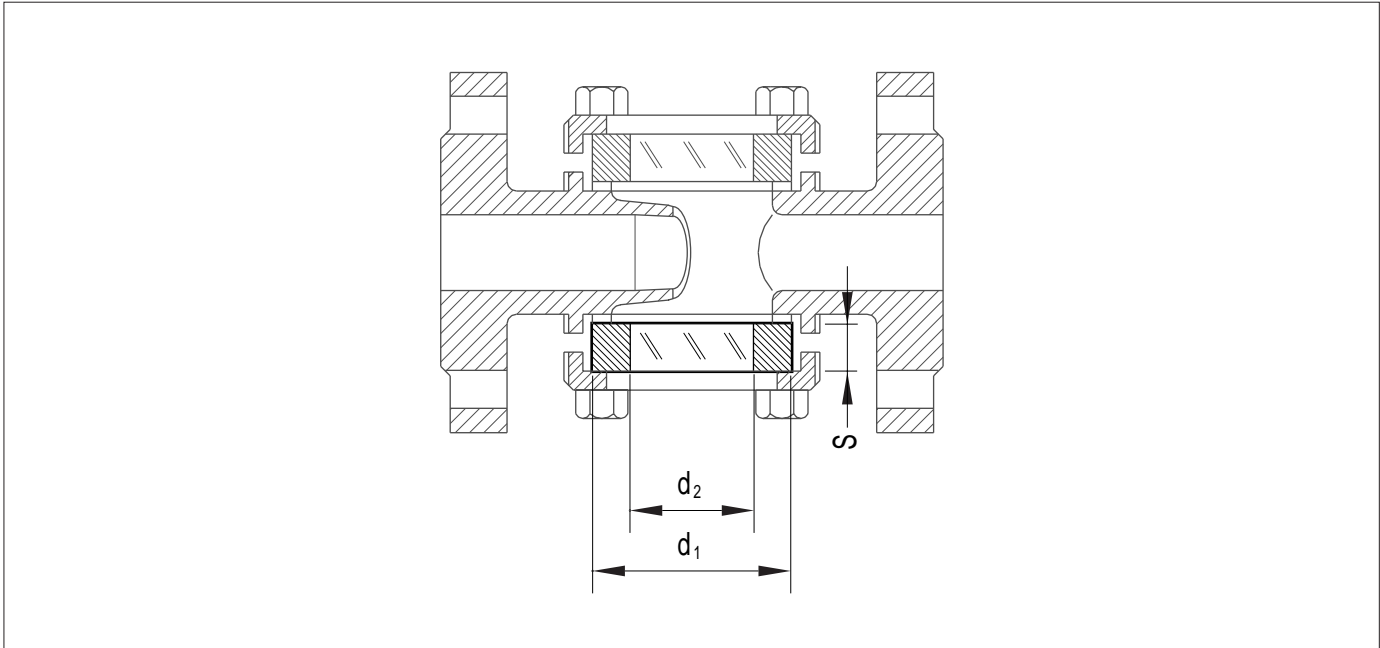
Other materials available.



Metaglas window in throughflow sightglass

Dimensions for Metaglas Sight Glass Disc

Type 77



Nominal bore	d1	d2	Maximum Pressure				
			10 bar	16 bar	25 bar	40 bar	64 bar
			S				
15	45	25	10	10	10	10	15
(15)	50	25	10	10	10	10	15
20	45	25	10	10	10	10	15
25	63	35	10	10	12	15	20
(32)	80	45	10	12	15	20	22
40	80	45	10	12	15	20	22
50	100	55	12	15	20	25	28
65	100	55	12	15	20	25	28
80	125	65	15	20	25	25	30
100	150	70	20	25	30	30	32
125	175	80	20	25	30	30	35
150	200	100	25	30	30	35	40

Ordering Information

Please specify your selected items as follows:

Nominal bore, Outside diameter (d1), Viewing diameter (d2)

Pressure

Temperature

Ring Material

08/2001

All dimensions in mm unless otherwise stated
Subject to change without notice