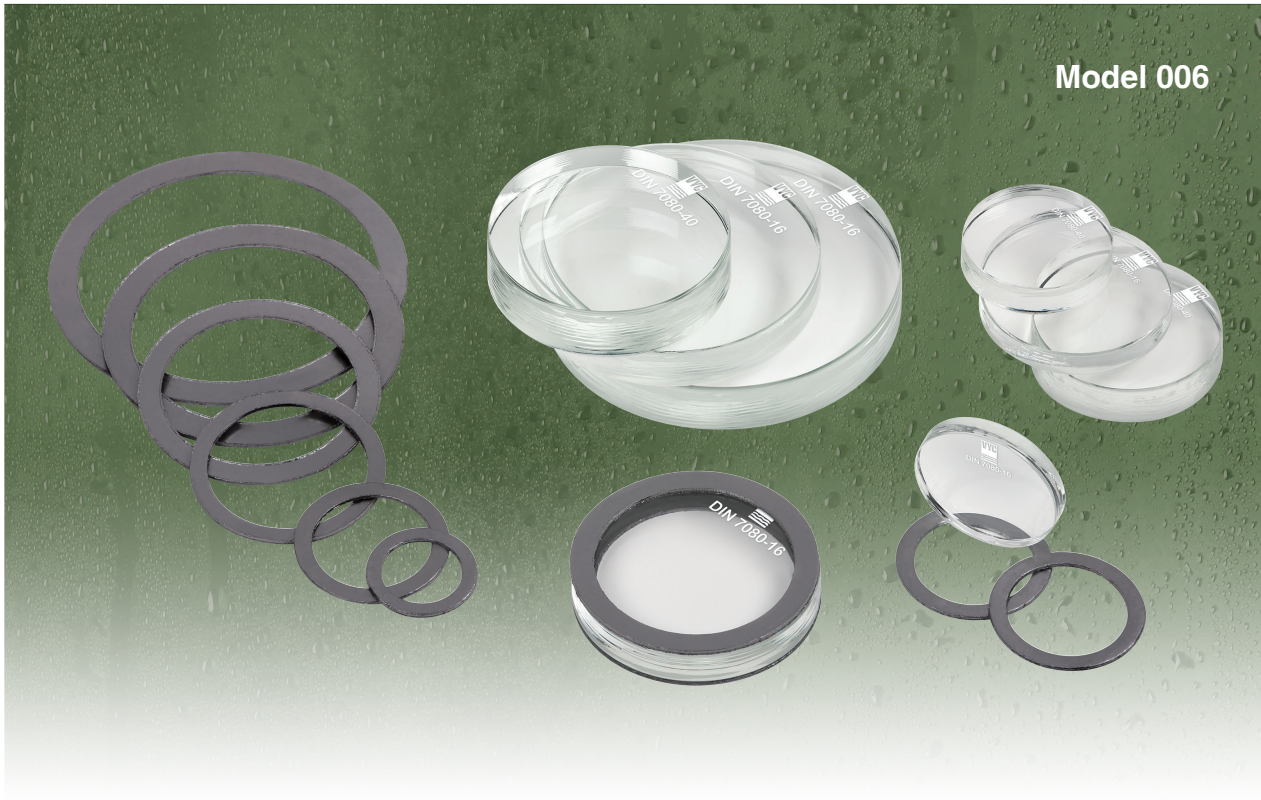


Circular transparent lenses

For sight glasses



Model 006



For visual checking of fluids in all types of vessel, including those under pressure, in special thermal and chemical conditions. Also for checking processes. The quality of the sight glass satisfies the most demanding safety standards and industry guarantees in general.

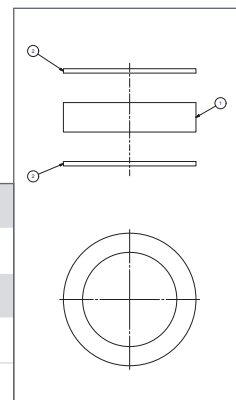
Specifications

- Boron silicate glass of high chemical stability.
- Of great purity and homogeneity.
- Low thermal expansion coefficient.
- Thermally prestressed which guarantees high mechanical resistance.
- High resistance to sharp changes of temperature, pressure and chemical aggression, guaranteeing a long life.
- Joint surfaces are perfectly flat.
- If the glass is accidentally broken it does not shatter.
- Satisfies the international standards: DIN-7080, O Norm M7353, etc.

IMPORTANT

Depending on demand:

- Other types of joints: Cardboard type klingerit acidit, PTFE (Teflón), etc.



Nº.PIECE	PIECE	MATERIAL
1	Glass	Boron-Silicate
2	Joint	Graphite
OPERATING CONDITIONS	PRESSURE IN bar	10/16/25/40 (See MAXIMUM SERVICE PRESSURE IN bar.)
	MAXIMUM TEMPERATURE IN °C	280 ÷ 300

D x b	MAXIMUM SERVICE PRESSURE IN bar.	TOLERANCES		PARALLELISME TOLERANCES < =	d1	d2	B	WEIGHT IN kgs.	CODE		
		D	b								
45x10	40	+0,50 -0,50	+0,50 -0,25	0,20	45	32	1,50	0,05	2101-006.8451		
63x10	16				0,08	2101-006.5631					
63x15	40				0,12	2101-006.8631					
80x12	16				0,15	2101-006.5801					
80x20	40				0,23	2101-006.8801					
100x15	16				0,30	2101-006.5001					
100x25	40				0,47	2101-006.8001					
125x20	16				+0,80 -0,80	0,25		125	100	0,56	2101-006.5251
125x30	40				+0,50 -0,25					0,88	2101-006.8251
150x25	16				+0,80 -0,80					1,06	2101-006.5501
150x30	25	1,26	2101-006.6501								
175x25	16	+0,80	1,45	2101-006.5751							
175x30	25	-0,40	1,67	2101-006.6751							
200x30	16	2,17	2101-006.5002								
250x30	10	+1,00 -1,00	3,45	2101-006.3501							
			0,30	250			225				

Chemical properties

Hydrolytic resistance	0,019	ISO-719	CLASS-1
	0,030	ISO-720	CLASS-1
Acid resistance	0,2	DIN-12116	CLASS-1
Alkaline resistance	89	ISO-695	CLASS-2

Physical properties

Type of glass.....	Ggl 490
Average coefficient of linear expansion a20°C/300°C.....	<5 • 10 ⁻⁶ K ⁻¹
Transformation temperature according to DIN-52324.....	575°C
Temperature of the glass at viscosities dPas (Poise):	
10 ¹³	553°C
10 ^{7,6}	775°C
10 ⁴	1.225°C
Density.....	2,39 g/cm ³
Elasticity modulus.....	73,54 N/mm ²
Poisson index	0,19 μ
Specific thermal tension $\varphi = \frac{E \cdot \alpha}{1 - \mu}$	0,405 Nmm ⁻² K ⁻¹
Thermal conductivity λ	1,168 • $\frac{W}{m \cdot K}$
Refraction index nd $\lambda = 587,6$ mm	1,494
Photoelasticity constant K	2,9 • 10 ⁻⁶ mm ² /N

