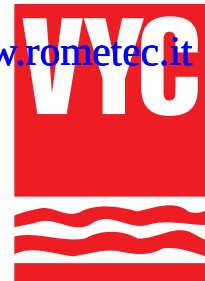


# Circular transparent lenses



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

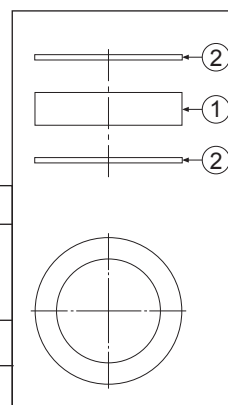
- Boron silicate glass of high chemical stability.
- Of great purity and homogeneity.
- Low thermal expansion coefficient.
- Thermally prestressed which guarantees high mechanical resistance.
- High resistance to sharp changes of temperature, pressure and chemical aggression, guaranteeing a long life.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

### IMPORTANT

Depending on demand:

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

N°.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 h	MAXIMUM SERVICE PRESSURE MPa	TOLERANCES	PARALLELISME TOLERANCES	d1	d2	B	WEIGHTIN Kgs	CODE	
45x10	40			45	32	1,50	0,38	2101-006.8451	
63x10	16	+0,50	0,20				0,81	2101-006.5631	
63x15	40	-0,25		63	48		1,13	2101-006.8631	
80x12	16						1,49	2101-006.5801	
80x20	40	+0,50		80	65		2,34	2101-006.8801	
100x15	16	-0,50					2,75	2101-006.5001	
100x25	40			100	80		4,14	2101-006.8001	
125x20	16	+0,80					5,67	2101-006.5251	
		-0,80							
125x30	40	+0,50		0,25	125		100	7,65	2101-006.8251
		-0,25						9,90	2101-006.5501
150x25	16	+0,80			150		125	11,70	2101-006.6501
150x30	25	-0,80						14,16	2101-006.5751
175x25	16	+0,80			175		150	16,82	2101-006.6751
175x30	25	-0,40						21,85	2101-006.5002
200x30	16				200		175		
250x30	10	+1,00			0,30	250	225	34,68	2101-006.3501
		-1,00							

**Chemical properties**

Hydrolytic resistance	0,019	DIN-12111	ISO-719	CLASS-1
	0,030	DIN-28817	ISO-720	CLASS-1
Acid resistance	0,2	DIN-12116		CLASS-1
Alkaline resistance	89	DIN-52322	ISO-675	CLASS-2

**Physical properties**

Type of glass.....	Ggl 490
Average coefficient of linear expansion $\alpha_{20^{\circ}\text{C}/300^{\circ}\text{C}}$ .....	$<5 \cdot 10^{-6} \text{ K}^{-1}$
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 <sup>3</sup>
Elasticity modulus.....	73,54 N/mm <sup>2</sup>
Poisson index.....	0,19 $\mu$
Specific thermal tension $\varphi = \frac{E \cdot \nu}{1 - \nu}$ .....	0,405 Nmm <sup>-2</sup> K <sup>-1</sup>
Thermal conductivity $\lambda$ .....	$1,168 \cdot \frac{\text{W}}{\text{m} \cdot \text{K}}$
Refraction index $n_d \lambda = 587,6 \text{ mm}$ .....	1,494
Photoelasticity constant K.....	$2,9 \cdot 10^{-6} \text{ mm}^2/\text{N}$

