

Reflection and transparency glasses

For level indicator box



Model 066



For visual checking of the level of liquids 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.

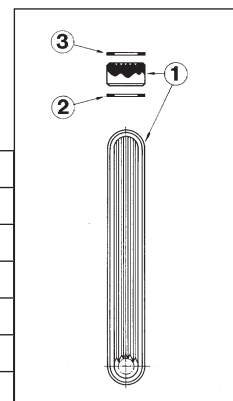
Specifications

- 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.
- The prisms are pressed, not cut, with a precise angle of reflection.
- If the glass is accidentally broken it does not shatter.
- Satisfies the international standards: DIN-7080, DIN-7081, BS-3463, Ö Norm M7353, Ö Norm M7354, JIS B 8211, MIL G 18498, TGL 7210, ESSO/EXXON, Ö MV H 2009, SOD Spec. 123, etc.

IMPORTANT

Depending on demand:

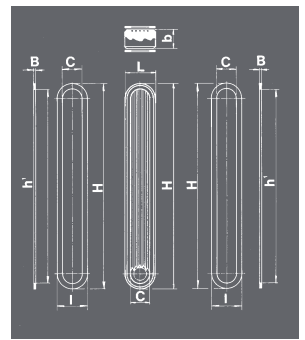
- Other types of joints: Cardboard type klingerit acidit, PTFE (Teflón), etc.



N°.PIECE	PIECE	MATERIAL		
		1	Glass	Boron-Silicate
2	Joint	Klingerit cardboard (1)		
3	Joint	Graphite (1)		
OPERATING CONDITIONS (2)	FLUID	WITH OUTSTANDING ATTACK	WITHOUT OUTSTANDING ATTACK	TRANSPARENCY WITH MICA
	PRESSURE IN bar	35	100	70
	MAXIMUM TEMPERATURE IN °C	243	120	280 ÷ 300

(1) For level indicator box in steam, joint (3) must be exposed to the medium. For level indicator box in processes, joint (2) must be exposed to the medium.
(2) Type H 340 bar at 120°C, 42 bar at 253°C.

	TYPE	Nº. OF PRISMS	Nº.	H x L x b	C	TOLERANCES				PARALLELISM TOLERANCES	h1	l	B	WEIGHT IN kgs.	CODE
						H	L	b	C						
REFLECTION	A	5	0	95x30x17	15					0,05	79	30	1,5		2101-066.1005 -
			I	115x30x17	15										2101-066.1015
			II	140x30x17	15										2101-066.1025
			III	165x30x17	15										2101-066.1035
			IV	190x30x17	15	+0	+0,2	+0,5	+0,2						2101-066.1045
			V	220x30x17	15	-1,5	-0,8	-0,5	-0,8						2101-066.1055
			VI	250x30x17	15										2101-066.1065
			VII	280x30x17	15										2101-066.1075
			VIII	320x30x17	15										2101-066.1085
			IX	340x30x17	15										2101-066.1095
	X	370x30x17	15					2101-066.1105 Δ							
	B	5	0	95x34x17	17					0,05	75	35	1,5		2101-066.2005
			I	115x34x17	17										2101-066.2015
			II	140x34x17	17										2101-066.2025
			III	165x34x17	17										2101-066.2035
			IV	190x34x17	17	+0	+0,2	+0,5	+0,2						2101-066.2045
			V	220x34x17	17	-1,5	-0,8	-0,5	-0,8						2101-066.2055
			VI	250x34x17	17										2101-066.2065
			VII	280x34x17	17										2101-066.2075
			VIII	320x34x17	17										2101-066.2085
			IX	340x34x17	17										2101-066.2095
	X	370x34x17	17					2101-066.2105							
	H	5	0	95x34x22	17					0,05	75	35	1,5		2101-066.3005 Δ
			I	115x34x22	17										2101-066.3015 -
			II	140x34x22	17										2101-066.3025 -
			III	165x40x22	17										2101-066.3035 -
			IV	190x34x22	17	+0	+0,2	+0,5	+0,2						2101-066.3045 -
			V	220x34x22	17	-1,5	-0,8	-0,5	-0,8						2101-066.3055 -
			VI	250x34x22	17										2101-066.3065 -
			VII	280x34x22	17										2101-066.3075 -
VIII			320x34x22	17					2101-066.3085 -						
IX			340x34x22	17					2101-066.3095 -						
X	370x34x22	17					2101-066.3105 Δ								
TRANSPARENCY	A	-	0	95x30x17					0,05	79	30	1,5		2101-066.10051Δ	
			I	115x30x17										2101-066.10151*	
			II	140x30x17										2101-066.10251*	
			III	165x30x17										2101-066.10351*	
			IV	190x30x17		+0	+0,2	+0,5							2101-066.10451*
			V	220x30x17		-1,5	-0,8	-0,5							2101-066.10551*
			VI	250x30x17											2101-066.10651
			VII	280x30x17											2101-066.10751
			VIII	320x30x17											2101-066.10851
			IX	340x30x17											2101-066.10951
	X	370x30x17						2101-066.11051Δ							
	B	-	0	95x34x17					0,05	75	35	1,5		2101-066.20051*	
			I	115x34x17										2101-066.20151*	
			II	140x34x17										2101-066.20251*	
			III	165x34x17										2101-066.20351*	
			IV	190x34x17		+0	+0,2	+0,5							2101-066.20451*
			V	220x34x17		-1,5	-0,8	-0,5							2101-066.20551*
			VI	250x34x17											2101-066.20651
			VII	280x34x17											2101-066.20751
			VIII	320x34x17											2101-066.20851
			IX	340x34x17											2101-066.20951
	X	370x34x17						2101-066.21051*							
	H	-	0	95x34x22					0,05	75	35	1,5		2101-066.30051*	
			I	115x34x22										2101-066.30151*	
			II	140x34x22										2101-066.30251*	
			III	165x34x22										2101-066.30351*	
			IV	190x34x22		+0	+0,2	+0,5							2101-066.30451*
			V	220x34x22		-1,5	-0,8	-0,5							2101-066.30551*
			VI	250x34x22											2101-066.30651
			VII	280x34x22											2101-066.30751
VIII			320x34x22											2101-066.30851	
IX			340x34x22											2101-066.30951	
X	370x34x22						2101-066.31051*								



* Material without stock.
ΔWe do not manufacture
- We will not manufacture more when stocks run out

Chemical properties	ISO-719	CLASS-1
Hydrolytic resistance	0,019	CLASS-1
	0,030	CLASS-1
Acid resistance	0,2	CLASS-1
	89	CLASS-2
Alkaline resistance		

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): 10¹³.....553°C
10^{7,6}.....775°C
10⁴.....1.225°C
Density.....2,39 g/cm³

Elasticity modulus.....73,54 N/mm²
Poisson index0,19 μ
Specific thermal tension $\varphi = \frac{E \cdot \alpha}{1-\mu}$ 0,405 Nmm⁻²K⁻¹
Thermal conductivity λ1,168 • $\frac{W}{m \cdot K}$
Refraction index nd λ = 587,6 mm1,494
Photoelasticity constant K2,9 • 10⁻⁶ mm²/N