

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

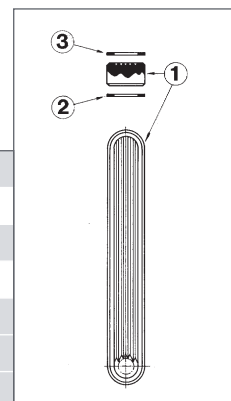
- Boron silicate glass of high chemical stability.
- Of great purity and homogeneity.
- Low thermal expansion coefficient.
- Thermally prestressed which guarantees high mechanical resistance.
- High resistance to sharp changes of temperature, pressure and chemical aggression, guaranteeing a long life.
- 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:

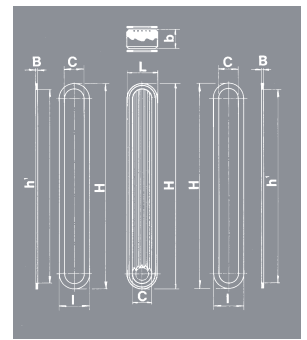
- Other types of joints: Cardboard type klingerit acidit, PTFE (Teflón), etc.

Nº.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	30	1,5	0,08	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	0,08				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					0,13				2101-066.1075							
			VIII	320x30x17	15									2101-066.1085							
			IX	340x30x17	15									2101-066.1095							
			X	370x30x17	15					2101-066.1105											
			B	5	5	0	95x34x17	17							0,05	35	1,5	0,10	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	0,08	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					0,13	2101-066.2075									
	VIII	320x34x17				17						2101-066.2085									
	IX	340x34x17				17						2101-066.2095									
	X	370x34x17				17					2101-066.2105										
	H	5				5	0	95x34x22	17				0,05	35	1,5				0,15	2101-066.3005	
							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	0,08	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						0,13	2101-066.3075 -									
VIII			320x34x22	17						2101-066.3085 -											
IX			340x34x22	17						2101-066.3095 -											
X			370x34x22	17						2101-066.3105											
TRANSPARENCY			A	-	0		95x30x17					0,05	30			1,5	0,09	2101-066.10051			
					I		115x30x17													2101-066.10151*	
					II		140x30x17													2101-066.10251*	
					III		165x30x17											2101-066.10351*			
	IV	190x30x17				+0	+0,2	+0,5	-	0,08	2101-066.10451*										
	V	220x30x17				-1,5	-0,8	-0,5	-		2101-066.10551										
	VI	250x30x17									2101-066.10651										
	VII	280x30x17								0,13	2101-066.10751										
	VIII	320x30x17									2101-066.10851										
	IX	340x30x17									2101-066.10951										
	X	370x30x17								2101-066.11051											
	B	-			-	0	95x34x17					0,05		35	1,5			0,11	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	-	0,08	2101-066.20451*									
			V	220x34x17			-1,5	-0,8	-0,5	-		2101-066.20551									
			VI	250x34x17								2101-066.20651									
			VII	280x34x17							0,13	2101-066.20751									
			VIII	320x34x17								2101-066.20851									
			IX	340x34x17								2101-066.20951									
			X	370x34x17							2101-066.21051*										
			H	-		-	0	95x34x22					0,05			35	1,5		0,16	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	-	0,08	2101-066.30451*									
	V	220x34x22					-1,5	-0,8	-0,5	-		2101-066.30551									
	VI	250x34x22										2101-066.30651									
	VII	280x34x22									0,13	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
Acid resistance	0,030	CLASS-1
Alkaline resistance	0,2	CLASS-1
	89	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): 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