

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.

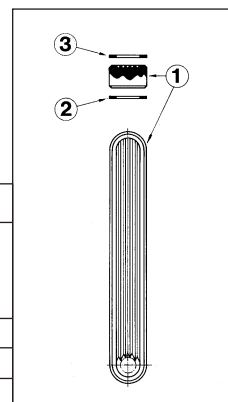
Specifications

- 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.

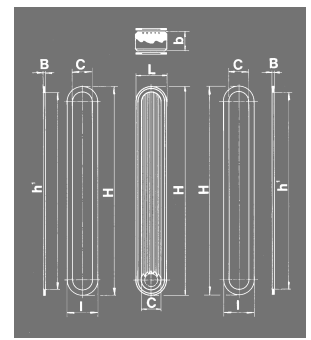


N°. PIECE	PIECE	MATERIAL		
		WITH OUTSTANDING ATTACK	WITHOUT OUTSTANDING ATTACK	TRANSPARENCY WITH MICA
1	Glass	Boron-Silicate		
2	Joint	Klingerit cardboard (1)		
3	Joint	Graphite (1)		
OPERATING CONDITIONS (2)	FLUID			
	PRESSURE IN bar	35	100	70
	MAXIMUM TEMPERATURE IN °C	243	120	280 ÷ 300

(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	N°. OF PRISMS	N°.	H x L x b	C	TOLERANCES				PARALLELISM TOLERANCES	h ¹	I	B	WEIGHT IN Kgs.	CODE
					H	L	b	C						
A	5	0	95x30x17	15					0,05	79	30	1,5	0,08	2101-066.1005-
		I	115x30x17	15				99		0,11			2101-066.1015	
		II	140x30x17	15				124		0,14			2101-066.1025	
		III	165x30x17	15				149	0,17	2101-066.1035				
		IV	190x30x17	15	+0	+0,2	+0,5	+0,2	174	0,20			2101-066.1045	
		V	220x30x17	15	-1,5	-0,8	-0,5	-0,8	204	0,23			2101-066.1055	
		VI	250x30x17	15					234	0,27			2101-066.1065	
		VII	280x30x17	15					264	0,31			2101-066.1075	
		VIII	320x30x17	15					304	0,36			2101-066.1085	
		IX	340x30x17	15					324	0,38			2101-066.1095	
X	370x30x17	15					354	0,40	2101-066.1105△					
B	5	0	95x34x17	17				0,05	75	35	1,5	0,10	2101-066.2005	
		I	115x34x17	17					95			0,12	2101-066.2015	
		II	140x34x17	17					120			0,16	2101-066.2025	
		III	165x34x17	17				145	0,19			2101-066.2035		
		IV	190x34x17	17					170			0,22	2101-066.2045	
		V	220x34x17	17	+0	+0,2	+0,5	+0,2	200			0,26	2101-066.2055	
		VI	250x34x17	17	-1,5	-0,8	-0,5	-0,8	230			0,30	2101-066.2065	
		VII	280x34x17	17					260			0,35	2101-066.2075	
		VIII	320x34x17	17					300			0,41	2101-066.2085	
		IX	340x34x17	17					320			0,43	2101-066.2095	
X	370x34x17	17					350	0,45	2101-066.2105					
H	5	0	95x34x22	17				0,05	75	35	1,5	0,15	2101-066.3005△	
		I	115x34x22	17					95			0,17	2101-066.3015-	
		II	140x34x22	17					120			0,22	2101-066.3025-	
		III	165x40x22	17				145	0,25			2101-066.3035-		
		IV	190x34x22	17					170			0,28	2101-066.3045-	
		V	220x34x22	17	+0	+0,2	+0,5	+0,2	200			0,34	2101-066.3055-	
		VI	250x34x22	17	-1,5	-0,8	-0,5	-0,8	230			0,39	2101-066.3065-	
		VII	280x34x22	17					260			0,46	2101-066.3075-	
		VIII	320x34x22	17					300			0,53	2101-066.3085-	
		IX	340x34x22	17					320			0,55	2101-066.3095-	
X	370x34x22	17					350	0,57	2101-066.3105△					
A	-	0	95x30x17					0,05	79	30	1,5	0,09	2101-066.10051△	
		I	115x30x17						99			0,12	2101-066.10151*	
		II	140x30x17						124			0,15	2101-066.10251*	
		III	165x30x17					149	0,18			2101-066.10351*		
		IV	190x30x17		+0	+0,2	+0,5	-	174			0,21	2101-066.10451*	
		V	220x30x17		-1,5	-0,8	-0,5	-	204			0,24	2101-066.10551	
		VI	250x30x17						234			0,28	2101-066.10651	
		VII	280x30x17						264			0,32	2101-066.10751	
		VIII	320x30x17						304			0,37	2101-066.10851	
		IX	340x30x17						324			0,39	2101-066.10951	
X	370x30x17						354	0,41	2101-066.11051△					
B	-	0	95x34x17					0,05	75	35	1,5	0,11	2101-066.20051*	
		I	115x34x17						95			0,13	2101-066.20151*	
		II	140x34x17						120			0,17	2101-066.20251*	
		III	165x34x17					145	0,20			2101-066.20351*		
		IV	190x34x17						170			0,23	2101-066.20451*	
		V	220x34x17		+0	+0,2	+0,5	-	200			0,27	2101-066.20551	
		VI	250x34x17		-1,5	-0,8	-0,5	-	230			0,31	2101-066.20651	
		VII	280x34x17						260			0,36	2101-066.20751	
		VIII	320x34x17						300			0,42	2101-066.20851	
		IX	340x34x17						320			0,44	2101-066.20951	
X	370x34x17						350	0,46	2101-066.21051*					
H	-	0	95x34x22					0,05	75	35	1,5	0,16	2101-066.30051*	
		I	115x34x22						95			0,18	2101-066.30151*	
		II	140x34x22						120			0,23	2101-066.30251*	
		III	165x34x22					145	0,26			2101-066.30351*		
		IV	190x34x22						170			0,29	2101-066.30451*	
		V	220x34x22		+0	+0,2	+0,5	-	200			0,35	2101-066.30551	
		VI	250x34x22		-1,5	-0,8	-0,5	-	230			0,40	2101-066.30651	
		VII	280x34x22						260			0,47	2101-066.30751	
		VIII	320x34x22						300			0,54	2101-066.30851	
		IX	340x34x22						320			0,56	2101-066.30951	
X	370x34x22						350	0,58	2101-066.31051*					



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

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

Physical properties

Type of glass.....Ggl 490
 Average coefficient of linear expansion α_{20°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 index.....0,19 μ
 Specific thermal tension $\phi = \frac{E_{-\infty}}{1-\mu}$ 0,405 Nmm⁻²K⁻¹
 Thermal conductivity λ.....1,168 $\frac{W}{m \cdot K}$
 Refraction index nd λ = 587,6 mm.....1,494
 Photoelasticity constant K.....2,9 · 10⁻⁶ mm²/N