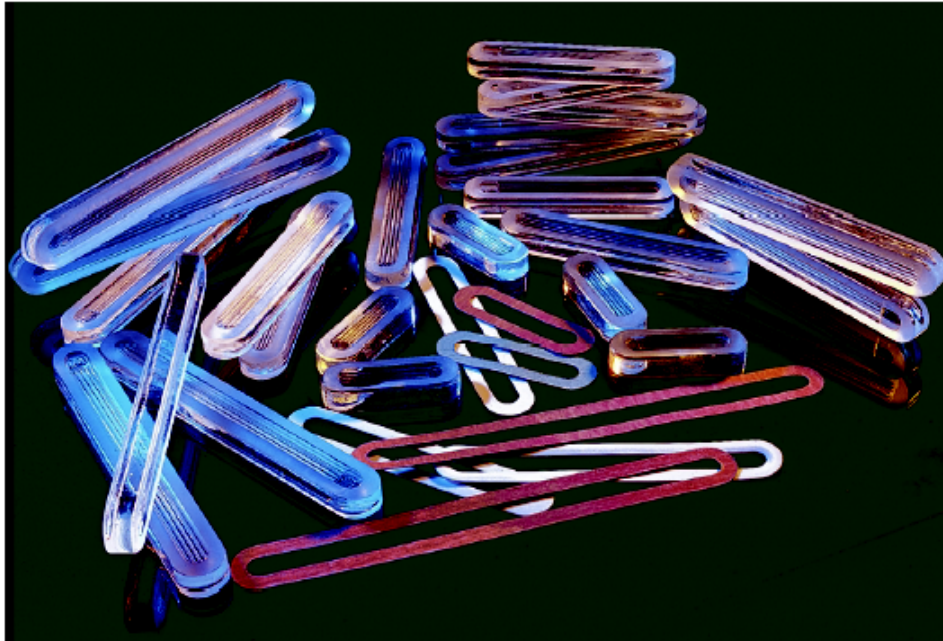


Reflection and transparency glasses

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.

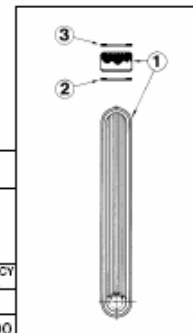
Specifications

- 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:

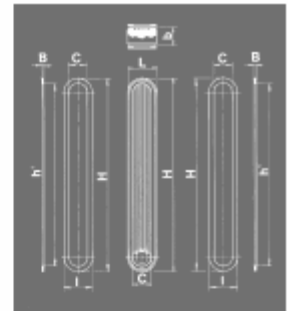
- Other types of joints: Cardboard type klingerit acidit, PTFE (Teflón), etc.



Nº. PIECE	PIECE	MATERIAL		
1	Glass	Boron-Silicate		
2	Joint	Red klingerit cardboard		
3	Joint	Oilit klingerit cardboard		
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 (2) must be exposed to the medium. For level indicator box in processes, joint (3) must be exposed to the medium.
(2) Type H 340 bar at 120°C, 42 bar at 25°C.

TYPE	N° OF PRISMS	N°	H x L x b	C	TOLERANCES				PARALLELISM TOLERANCES	H'	I	B	WEIGHT IN Kgs.	CODE	
					H	L	b	C							
A	5	0	95x30x17	15	+0 -1,5	+0,2 -0,8	+0,5 -0,5	+0,2 -0,8	0,05	90	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					174				0,20	2101-066.1045	
		V	220x30x17	15					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 -1,5	+0,2 -0,8	+0,5 -0,5	+0,2 -0,8	0,05	95	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					200				0,26	2101-066.2055	
		VI	250x34x17	17					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 -1,5	+0,2 -0,8	+0,5 -0,5	+0,2 -0,8	0,05	95	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					200				0,34	2101-066.3055	
		VI	250x34x22	17					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 -1,5	+0,2 -0,8	+0,5 -0,5	-	0,05	90	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	-					174				0,21	2101-066.10451*	
		V	220x30x17	-					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 -1,5	+0,2 -0,8	+0,5 -0,5	-	0,05	95	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	-					200				0,27	2101-066.20551*	
		VI	250x34x17	-					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 -1,5	+0,2 -0,8	+0,5 -0,5	-	0,05	95	1,5	0,16	2101-066.30051*		
		I	115x34x22	-									96	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	-					200				0,35	2101-066.30551	
		VI	250x34x22	-					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.

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

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^{19}553°C
 $10^{7,6}$775°C
 10^41.225°C
 Density.....2,39 g/cm³

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

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