

SPARE PARTS FOR GLASS LEVEL GAUGES

GLASSES reflex type and transparent type

The level gauges can be supplied with two different types of glasses: reflex or transparent. Both in borosilicate, they are manufactured according to the high quality standards and grant the highest resistance to the chemical agents and thermal shock.

Standards references:

- DIN 7081
- BS 3463
- JIS B 8211
- MIL - G - 16356 D

Physical characteristics:

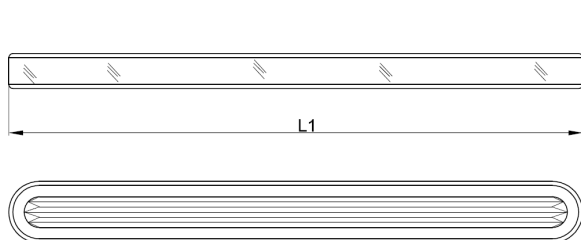
Coefficient of thermal expansion α 20°C; 300°C: $4,1 \times 10^{-6}/K$
 Density ρ at 25°C: 2,3 g/cm³
 Young's modulus E: 67×10^3 N/mm²
 Poisson's ratio μ : 0,20
 Refractive index n_d ($\lambda = 587,6$ nm): 1,482
 Abbe number v_d : 64,5
 Internal transmittance at 550 nm: 98,9% at 10 mm thickness

Temperature:

Thermal shock resistance ΔT : 265 K
 Transformation temperature T_g : 545°C
 Max. permissible temperature: 300°C
 Saturated steam applications: see page 1.59

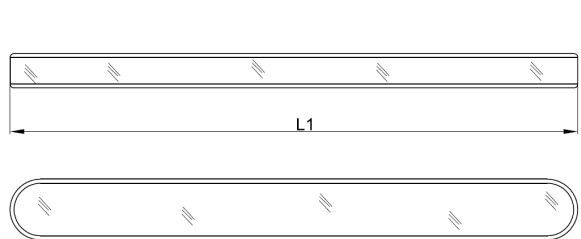
Chemical characteristic	Hydrolytic resistance	Acid resistance	Alkaline resistance
Test according to	DIN ISO 720 Class 1 (HGA1)	DIN ISO 1776	DIN ISO 695 (Identical to DIN 52322) Class A2
Max. abrasion according to DIN ISO	0,1	<100 $\mu\text{g Na}_2\text{O}/\text{dm}^2$	>75-175 mg/dm^2
Max. abrasion	0,050	<60 $\mu\text{g Na}_2\text{O}/\text{dm}^2$	>100 mg/dm^2

The **reflex glass** has a smooth surface (external side) and a prismatic one to be put in contact with the fluid to absorb the light. Taking advantage of the optical laws of refraction, the fluid appears dark, while the surface in contact with the gas reflects the light appearing very clear.



Code: BGR _ [Width: A o B] _ [Size: 1...9]

The **transparent glass** has two smooth surfaces and the reading is obtained by the different transparency between the fluids and their gas. A clearer reading can be obtained by installing an illumination lamp which is able to increase the contrast by a diffuser.



Code: BGT _ [Width: A o B] _ [Size: 1...9]

Available size

Both reflex and transparent glasses can be supplied in two different types:

- type A - width 30 mm
- type B - width 34 mm

SIZE	1	2	3	4	5	6	7	8	9
LEVEL GAUGE BODY LENGTH [mm]	130	155	180	205	235	265	295	335	360
GLASS LENGTH L1 [mm]	115	140	165	190	220	250	280	320	340
GLASS WIDTH W TYPE A [mm]	30	30	30	30	30	30	30	30	30
GLASS WIDTH W TYPE B [mm]	34	34	34	34	34	34	34	34	34
GLASS THICKNESS [mm]	17	17	17	17	17	17	17	17	17