

## USE WITH SATURATED STEAM

The maximum operating conditions of the equipment must be carefully evaluated in case of use with saturated steam in order to decide the best type which avoids often maintenance operations/parts replacements.

Suggestions to be taken into consideration:

- **To avoid often tightening of the union nut for grinded pipes (pos. 15 of page 1.66)**

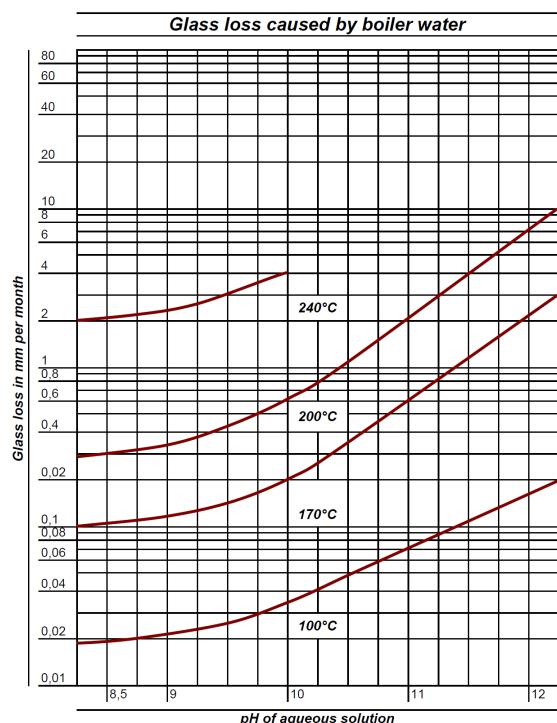
Should the operating conditions not exceed a maximum pressure value of 15 bar (197°C) it is recommended the purchase of a level gauge with grinded pipes even if they can be considered suitable for applications up to 20 bar.

Higher values would dry the graphite sealing gasket of the upper pipe in a very short time and cause leakages which could damage the whole level gauge and the lower cock.

- **To avoid often glasses replacement**

it is recommended to:

- Utilize reflex level gauges with fixed distance execution if operating conditions do not exceed the value of 20 bar (211°C). Higher values would cause the glass breakage in a short time (see diagram "glass loss caused by boiler water" regarding glass life)
- Utilize transparent level gauges type DS LG - TCF or type DS LG - TMF with mica shields protection for operation conditions not exceeding the value of 32 bar (236°C)
- Utilize transparent level gauges type DS LG - TPF with mica shields protection for operating conditions not exceeding the value of 50 bar (263°C)
- Utilize transparent level gauges type DS LG - TXF with mica shields protection for operating conditions not exceeding the value of 70 bar (280°C)



Glass loss - shown here for unprotected borosilicate glasses.  
The glasses life depends not only on the temperature but also on the water pH (higher pH values shorten glass life).

**DURING THE FIRST HOURS OF INSTRUMENT USE** and particularly in case of use with high temperature steam, should any leakage occur, gently tighten the stuffing box (pos. 12 and 13 of page 1.66), the fitting screws and the nuts (for housing tightening starting in the middle and then work outwards on alternate sides).

The grease contained in the graphite gaskets is dissolved by the high temperatures, the gaskets dry and loose the sealing capacity that can be restored by this easy operation.

**ANYWAY BOLTS AND NUTS CONDITIONS CHECKS SHOULD BE CARRIED OUT REGULARLY.**