

## CIRCULAR SIGHT GLASSES

Spectraglass sight glasses are used as viewing windows in a variety of enclosures and pressure vessels. In addition to pressure they may be required to withstand high temperatures, thermal gradients, severe thermal shock, and the corrosive effects of chemical reagents.

Where applicable glasses are manufactured to the following standards.

- BS 3463
- DIN 8902
- DIN 7080

Other standards can be complied with, and in addition glasses can be custom made.

## SODA LIME SIGHT GLASS

This is the most commonly used material due to its low cost; it can be easily toughened to effectively increase the mechanical strength of annealed glass by up to five times.

We are equipped, with plant including our waterjet cutting machine and CNC machining centre to produce diameters between 3mm and 1500 mm, and thickness up to 25mm.

## BOROSILICATE SIGHT GLASS

Where a greater degree of chemical resistance or higher operating temperatures are required a borosilicate glass should be specified. In toughened form temperatures up to 315°C are possible, whilst annealed glass may be used up 400°C continuously with a short term maximum of 500°C. In addition to standard DIN sizes, glasses are available in a wide range of diameters up to 60mm thick. (see also annular edge sight glass)

## ALUMINOSILICATE SIGHT GLASS

Where even higher temperatures are called for, toughened aluminosilicate glasses may be used up to 400°C

## QUARTZ SIGHT GLASS

When extreme temperature is the main criteria this material allows continuous operation up to 1150°C and short term to 1300°C, it also has good resistance to thermal shock due to its low coefficient of expansion ( $0.55 \times 10^{-6} / ^\circ\text{C}$ )

Circular glasses up 350dia and 30mm thick can be manufactured, but this material cannot be toughened.

## ANNULAR EDGE REPLACEMENT SIGHT GLASS

We can offer replacements for the entire Corning range, please see datasheet.