

1001S Sightglass

DESIGN

- Virtually resistant to chemical attack.
- Glass conforms to BS2598/1980.
- Unrestricted full bore flow.
- All-round visibility.
- Stainless steel (316L) carrier and flanges.
- One-piece continuous PTFE end seals as standard. Viton and Neoprene end seals can be fitted on request.
- Can be supplied assembled as shown, or as a kit of finished parts with or without glass.



APPLICATIONS

The only material in contact with the fluid is the borosilicate glass and seals. The Type 1001S Sightglass can therefore handle almost all fluids and has applications in the chemical and pharmaceutical industries in particular.

CE MARKING

In accordance with the PED the 1001 sight glass does not require CE marking, but will be issued with a statement of conformance.

TECHNICAL DATA

There are two pressure options, 1001S low pressure and 1001SH high pressure.

MAXIMUM WORKING PRESSURES							
Size		1"	1½"	2"	3"	4"	6"
Max. Working Pressure 1001S	Bar	4.0	4.0	4.0	3.0	2.0	2.0
	with Corwrap shatter protection	Bar	4.0	4.0	4.0	3.0	2.0
Max. Working Pressure 1001SH	Bar	9.0	9.0	9.0	7.0	7.0	8.25
	with Corwrap shatter protection	Bar	6.0	6.0	6.0	4.5	4.5

WORKING TEMPERATURES (Dependent on end seals)		
End Seal	Minimum °C	Maximum °C
PTFE	-50°C	200°C
Viton	-30°C	160°C
Neoprene	-40°C	120°C

DIMENSIONS (1001S and 1001SH)							
Size		1"	1½"	2"	3"	4"	6"
Overall length*	mm	185	185	185	185	192	205

* With standard 150mm glass. Longer glass can be supplied to special order.

END CONNECTIONS

Available flanged to BS10 Table E, BS 4504 PN 10, DIN PN10 or ANSI 150.

SIGHT GLASS

The Bailey 1001S Sight Glass is used widely in the chemical, pharmaceutical, food, drink and allied industries, where visual monitoring is essential. The flanges are stainless steel and the glass is made from Borosilicate. Borosilicate glass has excellent transparent properties and is resistant to almost all substances except hydrofluoric acid, phosphoric acid and hot strong caustic solutions. The glass is suitable for temperatures up to 200°C and it will tolerate a degree of thermal shock, however rapid changes in temperature should be avoided as it will increase the stress within the glass.

CORWRAP SHATTER PROTECTION

When dealing with glass the inevitable can happen, the glass can break. However it may happen, by thermal shock or accidental impact, the result will be the same. Broken glass and leaking process fluids can cause further accidents. Whether the fluid is a chemical or a drinks concentrate the clean up operation can be huge. Bailey can offer additional protection in such circumstances by the addition of a single layer of polyester-impregnated glass fibre cloth called CORWRAP, applied to the external surface of the glass. Whilst CORWRAP does have very good resistant properties, it does not have the excellent resistance to corrosion as the glass.

If a glass does break, CORWRAP firstly contains the broken glass reducing any resultant danger, and secondly it will for a limited period contain the process fluid, often for a time sufficient to safely shut down the process and drain the fluid to a safe level, thus allowing a new glass to be installed.

Being suitable for operating temperatures up to 150°C CORWRAP has a grey textured finish and it is translucent, hence retains a degree of visual monitoring of the process fluid.