

HSG04 full-view sight glass

The full-view sight glass range is suitable for use in systems operating up to a maximum of 6 barg/150°C. The sight glass should not be exposed to instantaneous temperatures exceeding 120°C.

Standards

- The HSG04 fully complies with the European Pressure Equipment Directive 97/23/EC under the 'Sound Equipment Practice' (SEP) category. In accordance with the standard the product does not carry a CE logo.
- All elastomers used comply with FDA regulation CFR21, paragraph 177, section 2600 and UPS class VI criteria.
- The HSG04 is designed in accordance with the ASME BPE standard where applicable.

Installation

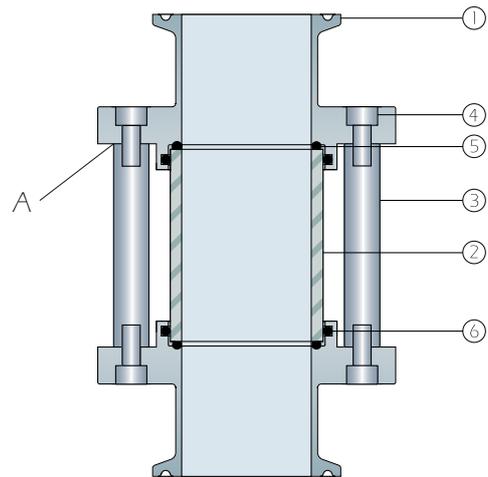
The sight glass may be installed in any orientation.

Maintenance

The Full-view sight glass is easily disassembled for cleaning or maintenance. Replacement seals and glass are available for all sizes of the HSG04. Disassembly/assembly instructions are as follows:

1. Loosen and remove the four screws (4) adjacent to the studs (3).
2. Remove end fitting (1), knock shield (7), glass (2) and body seals (5). The studs (3) do not need to be removed.
3. Clean all components prior to re-assembly.
4. Fit new body seals (5) into both end fittings (1).
5. Firstly, the studs need to be set, and this is achieved by loosely assembling the sight glass without the knock shield fitted as follows:
6. With the sight glass vertical, locate the glass (2) in the lower end fitting (1). Place the second end fitting onto the studs (3). Fit two screws to hold the end fitting in place, but making sure the seal remains un-compressed and the end fitting is square (This can be achieved by measuring the distance between the end caps at each of the four stud positions). Set the distance 'A' between the studs (3) and end cap (1) to 0.7-1.0mm.
7. Slacken screws and remove end fitting.
8. Fit knock shield (7) into lower end fitting.
9. Refit upper end fitting and screws.

10. Finger tighten screws and centre glass as appropriate using plastic tools only.
11. Tighten screws in small increments to gently compress seals in an even manner, until all four nuts are fully tightened (The upper end fitting will be against the studs at this point).
12. Pressure test unit as appropriate.



Part	Material
1 End fitting	316L stainless steel
2 Glass	Borosilicate
3 Stud	316L stainless steel
4 Screw	Stainless steel
5 Seal	EPDM, Viton, Silicone or PTFE-Silicone
6 Cushioning split ring	EPDM
7 Knock shield	Polycarbonate (if fitted)
8 Support ring	316L stainless steel (if fitted)

Available spares

Glass (2), seal kit (5 and 6) and knock shield (7)