



OPERATING INSTRUCTIONS FOR SIGHT GLASSES

SGL 475

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1 Overview of types

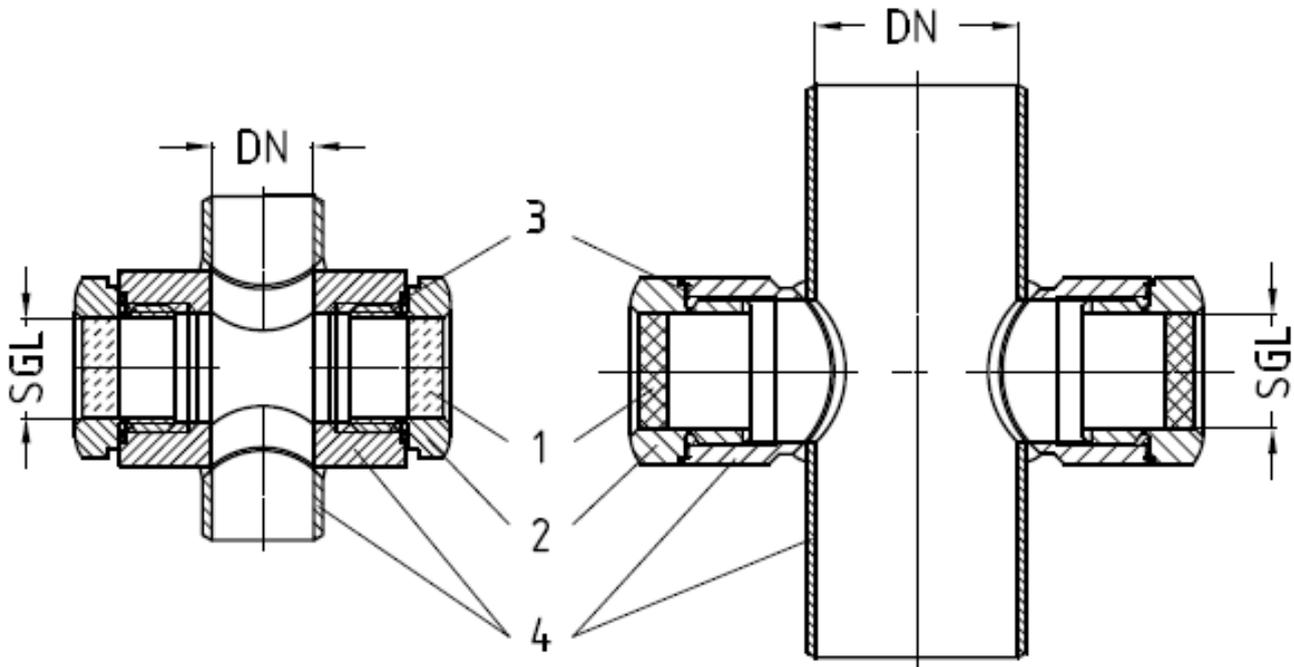
DN 6 - 50

SGL28 (DN 6-32)

SGL40 (DN40-50)

DN 65 - 250

SGL40



1	Glass (soda-lime glass)
2	Screw-in fitting
3	Flat gasket
4	Body

2 Technical characteristics

Body material	
Steel	S355J2+N (1.0577), P235GH (1.0345)
NIRO	X5CrNi18-10 (1.4301)
Material of screw-in fitting	
Steel	S355J2+N (1.0577)
NIRO	X5CrNi18-10 (1.4301)

3 Pressure/temperature operating limits

Temp. range: -50 °C to +120 °C

Nominal diameter range: DN 6 to DN 250

Pressure range: max. 40 bar

PN	TB (MWT) [°C]	-50 ²⁾	-50 ¹⁾	-10	+50	+120
25	PS (MWP) [bar]	18.7	25	25	25	25
40		30	40	40	40	40

PN	TB (MWT) [°C]	-50 ²⁾	-50 ¹⁾	-10	+50	+120
¹⁾ Load case I (low-temperature steel, NIRO) ²⁾ Load case II (acc. to AD2000-W10) (steel) Permissible ambient temperature range -50 to +50 °C						

4 Operating media

Refrigerants according to EN 378 Part 1, e.g. NH³, R22, R134a; blends and neutral, gaseous, liquid and non-corrosive media, glycol-based brines.

Leakage: <15 g refrigerant per year

5 Safety instructions

NOTICE

Danger from improper handling!

Risk of property damage.

- ▶ Do not install sight glasses with transport or storage damage.
- ▶ Sight glasses must be free of axial forces, bending moments, and torsional moments and must not serve as fixed points for pipework.
- ▶ In the event of oxy-fuel welding or brazing, the flame must not touch the sight glass.
- ▶ Keep the interior of the sight glasses free of contamination.
- ▶ Only dismantle sight glasses when the pipework is depressurised, evacuated, and sufficiently ventilated.

6 Application

AWP sight glasses are suitable for use in refrigerant circuits for industrial refrigeration systems. They ensure permanent monitoring of the filling levels in the system.

7 Transport, storage and disposal

AWP components are transported protected against impact and covered with foil.

- Storage must take place in dry rooms.
- Ensure that the connection ports are sealed intact.
- Contamination of any kind must be kept away from the interior.
- The external surfaces are provided with a corrosion protection coating for dry storage at room temperature, which is effective for at least 1 year.
- The corrosion protection coating CELEROL® Reaktionsgrund 918 is a good adhesion promoter for 1- and 2-component top coats.
- Dismantle for disposal.
- Collect lubricants during dismantling. The materials must be separated from one another and disposed of in accordance with local regulations.

8 Garantie

Unless agreed otherwise, the statutory warranty provisions apply. For further information, please also refer to our General Terms and Conditions, available on our website awpvalves.com.

9 Marking

AWP sight glasses are marked with:

- Type number (475)
- Manufacturer (AWP)

10 Note on residual hazards in accordance with Pressure Equipment Directive (2014/68/EU)

Residual risks that cannot be avoided by the manufacturer exist due to:

- Unscrewing the sight glass during operation.
- Improper assembly.
- Non-compliance with the operating limits and manufacturer's regulations according to these operating instructions.

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