

Sight glasses for CFC/HCFC refrigerants Type SGI

**Give your plant
optimal protection -
The moisture indicator
tells you when to act...**

The optimal protection lies in the unique indicator which changes colour to show the moisture content within the refrigerant. Danfoss sight glasses are less effected by temperature when compared to other brand equivalents and they guarantee the best visual indication of moisture throughout the whole year. With the same moisture content in the installation, the sight glasses will not be as quick to change colour when the liquid temperature increases. This is important to ensure adequate and optimal compressor protection. Danfoss offers sight glasses that are designed for CFC, HCFC and HFC refrigerants.

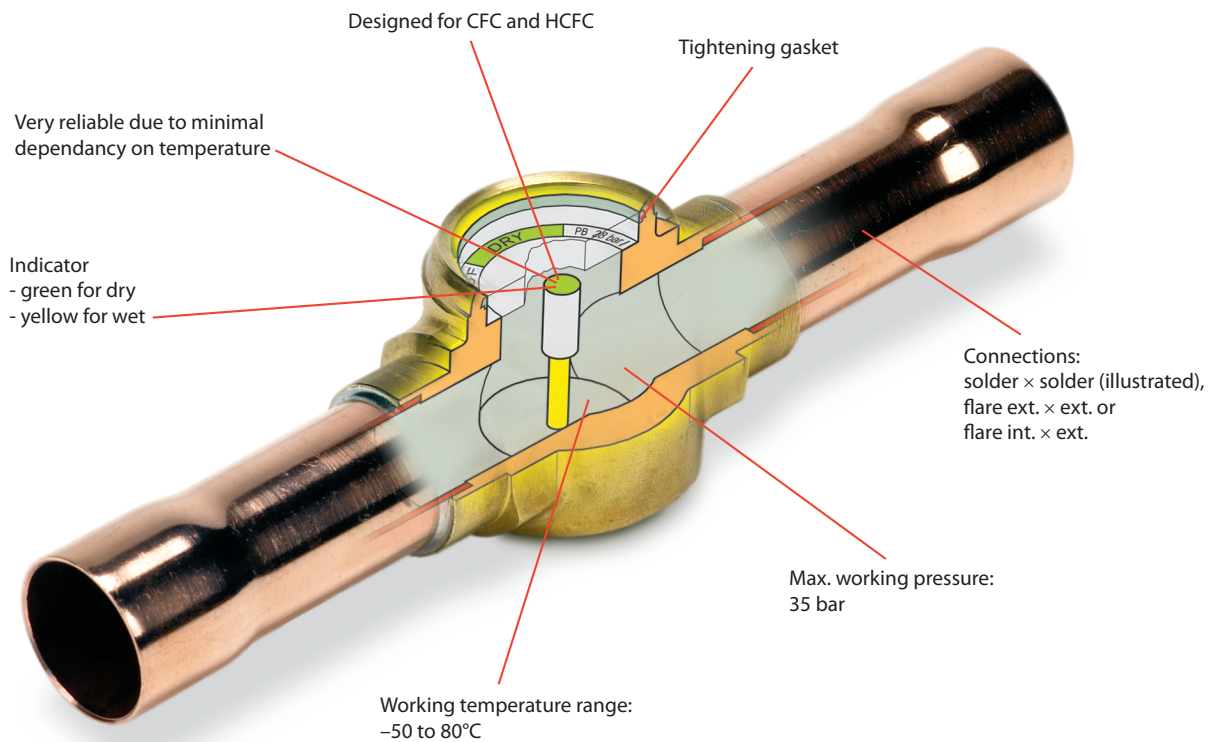




SGI, SGR and SGRI: secure optimal protection

Sight glasses are mostly installed in the liquid line between the filter drier and the expansion valve to monitor the condition of the refrigerant. The SGR is mainly used to indicate the condition of the refrigerant as well as the liquid level in the receiver or the oil level in the compressor and has no moisture indicator. The SGI and SGRI are equipped with sensitive indicators that reflect a colour, depending on the moisture content in the refrigerant.

Features



Applications	Advantages	Facts
<ul style="list-style-type: none"> Traditional refrigeration Heat pump systems Air conditioning units Liquid coolers Transport refrigeration 	<ul style="list-style-type: none"> Best visual indication of moisture (minimal dependence on temperature). The flare ext. x int. version can be screwed together with filter drier (reduction of assembly costs). Flare connections are 4-sided for quick installation. Extended solder connections. Glass diameter permits high working pressures. 	<ul style="list-style-type: none"> Designed for CFC and HCFC refrigerants. Flare-/solder connection or socket type. Wide range with sizes from 6 to 22 mm. Max. working pressure: 35 bar. Working temperature: -50 to 80°C. Approvals: PED, UL, GOST.

Technical data and ordering

SGI and SGRI	Moisture content ppm = parts per million					
	Liquid temperature 25°C			Liquid temperature 43°C		
	Green dry	Intermediate color	Yellow wet	Green dry	Intermediate color	Yellow wet
R22	< 150	150 - 300	> 300	< 250	250 - 500	> 500



Type	Version	Connection		Code no. ¹⁾	MWP
		in.	mm		
SGI 6 SGI 10 SGI 12 SGI 16 SGI 19	Flare, ext. x ext.	1/4 x 1/4 3/8 x 3/8 1/2 x 1/2 5/8 x 5/8 3/4 x 3/4	6 x 6 10 x 10 12 x 12 16 x 16 19 x 19	014-0007 014-0008 014-0009 014-0024 014-0028	35
SGI 6 SGI 10 SGI 12 SGI 16 SGI 19	Flare, int. x ext. ²⁾	1/4 x 1/4 3/8 x 3/8 1/2 x 1/2 5/8 x 5/8 3/4 x 3/4	6 x 6 10 x 10 12 x 12 16 x 16 19 x 19	014-0021 014-0022 014-0025 014-0026 014-0043	35
SGI 6s SGI 6s SGI 10s SGI 10s SGI 12s SGI 12s SGI 16s SGI 18s SGI 19s SGI 22s	Solder, ODF x ODF	1/4 x 1/4 3/8 x 3/8 1/2 x 1/2 5/8 x 5/8 3/4 x 3/4 7/8 x 7/8	6 x 6 10 x 10 12 x 12 16 x 16 18 x 18 19 x 19 22 x 22	014-0034 014-0040 014-0035 014-0041 014-0036 014-0042 014-0044 014-0045 014-0047 014-0039	35
SGI 6s SGI 10s SGI 12s SGI 16s SGI 22s	Solder, ODF x ODM ²⁾	1/4 x 1/4 3/8 x 3/8 1/2 x 1/2 5/8 x 5/8 7/8 x 7/8	16 x 16 22 x 22	014-0125 014-0126 014-0127 014-0128 014-0130	35
SGR 3/4 SGR 3/4 SGR 1/2	Pipe thread NPT NPT	G 3/4 A ³⁾ 3/4 NPT 1/2 NPT		014-0004 014-0005 014-0002	35
SGRI for saddle	M		M24 x 1	014-1154	35
Sight glass saddle for SGRI	Tube fitting (M24 x 1)	7/8 1 1/8 1 3/8 1 5/8 2 1/8 3 1/8 4 1/8		014-1059 014-1056 014-1057 014-1058 014-1067 014-1068 014-1069	-

¹⁾ Code numbers in bold are normally on stock and a shorter delivery time can, therefore, be expected.

²⁾ Can be mounted directly into the filter drier.

³⁾ ISO 228/1.

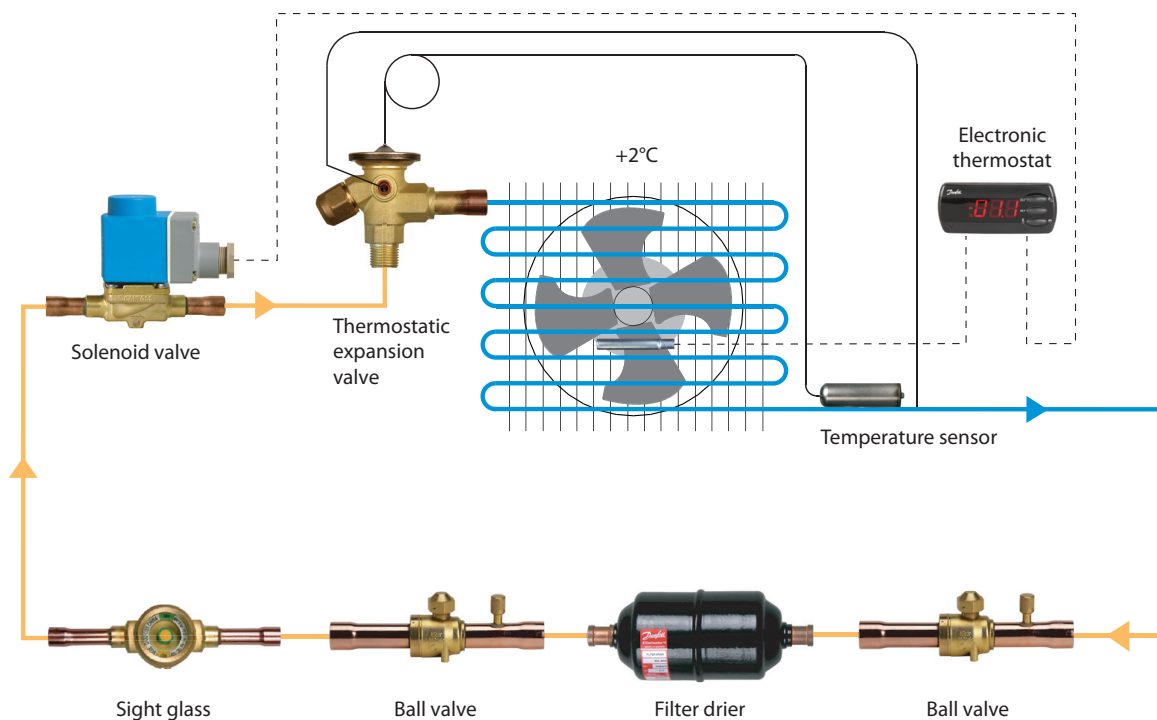


Quality in everything we do

SGI, SGR and SGRI sight glasses are a part of the Danfoss line components program which covers a wide range of components used in a refrigeration system. Our production utilises state-of-the-art processes and every product is thoroughly tested in accordance with the most demanding standards.

If the component you are looking for is not mentioned in this leaflet or if you have special requirements, Danfoss partner wholesalers or our local Danfoss team can offer you help and guidance and will do their utmost to fulfill your needs.

Related products



The Danfoss line components program

Filter driers	Ball valves	Shut-off valves	Check valves	Solder adapters