

TI-P130-01 ST Issue 9

SG253 Sight Glass

Description

The SG253 is an SG iron double window sight glass with flanged connections.

Standards

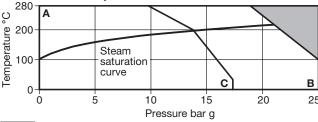
This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC and carries the (mark

Certification

This product is available with a Typical Test Report and is also available with certification to EN 10204 3.1 if specified. Note: All certification / inspection requirements must be stated at the time of order placement.

Sizes and pipe connections DN15, DN20, DN25, DN32, DN40 and DN50 Flanged EN 1092 PN25 and BS 1560 ASME (ANSI) Class 150.

Pressure / temperature limits



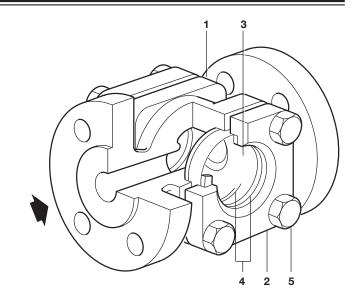
The product must not be used in this region.

A - B Flanged EN 1092 PN25A - C Flanged BS 1560 ASME (ANSI) Class 150.

Body d	lesign conditions	PN25 and	ASME (ANSI) 150
PMA	Maximum allowable	PN25	25 bar g @ 100°C
	pressure	ASME 150	17.2 bar g @ 35°C
TMA	Maximum	PN25	280°C @ 18 bar g
	allowable temperature	ASME 150	280°C @ 10 bar g
Minimu	ım allowable temperature	-10°C	
PMO	Maximum operating pressure	PN25	21 bar g
	Maximum operating pressure for saturated steam service	ASME 150	13.8 bar g
TMO	Maximum operating tempera	280°C	
Minimu	ım operating temperature	0°C	
Note: F	For lower temperatures consu	lt Spirax Sa	rco.
Design	ed for a maximum	PN25	38 bar g
cold hydraulic test pressure of:		ASME 150	30 bar g
PTMX	Maximum test pressure	PN25	21 bar g
	(steam service)	ASME 150	13.8 bar g

Material

No.	Part	Material			
1	Body	SG iron	DIN 1693 GGG 40.3		
2	Cover	SG iron	DIN 1693 GGG 40.3		
3	Window	Borosilicate glass	DIN 7080		
4	Gaskets	Reinforced exfoliate	Reinforced exfoliated graphite		
5	Cover bolts	Steel	BS 3692 Gr. 8.8		



Dimensions / weights (approximate) in mm and kg

	PN25	ASME 150				
Size	Α	Α	В	E	F	Weight
DN15	130	126	55	45	10	3.2
DN20	150	142	55	45	10	4.1
DN25	160	152	70	63	15	5.0
DN32	180	175	70	63	15	5.9
DN40	200	199	90	80	20	9.1
DN50	230	228	90	80	20	10.9

Spare parts

The spare parts available are shown in solid outline. Parts drawn in broken line are not supplied as spares.

Available spares

Set of windows and gaskets

3, 4

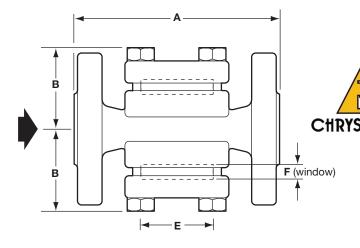
Please note: For the DN25 and DN32 sizes a set of bolts (16 $\hbox{A/F}$ M10 x 40) is also included due to the increased thickness of the glass.

Set of gaskets 4

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of the sight glass.

Example: 1 off Set of windows and gaskets for a Spirax Sarco SG253 sight glass.



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-S32-04) supplied with the product.

Warning:

Under certain conditions corrosive elements in condensate can affect the inside face of the window, particularly where caustic alkali and hydrofluoric acid are present. It is recommended that the sight glass is periodically checked for thinning of the window. If there is evidence of thinning or erosion damage then the window should be replaced immediately. Always wear eye protection when viewing the contents of the sight glass.

Reasonable steps should be taken to protect personnel from injury in the unlikely event that the window breaks.

Installation and maintenance note:

Sight glasses should have stop valves fitted on both the inlet and outlet. It is inperative that the upstream stop valve is closed first in order to prevent overpressurisation.

Sight glasses can be fitted in either a horizontal or vertical line on the outlet side of a steam trap. Where the trap is a blast discharge type e.g. thermodynamic, the sight glass must be fitted at least 1 m from the trap. This is to ensure that the glass is not subjected to thermal shock or pressure.

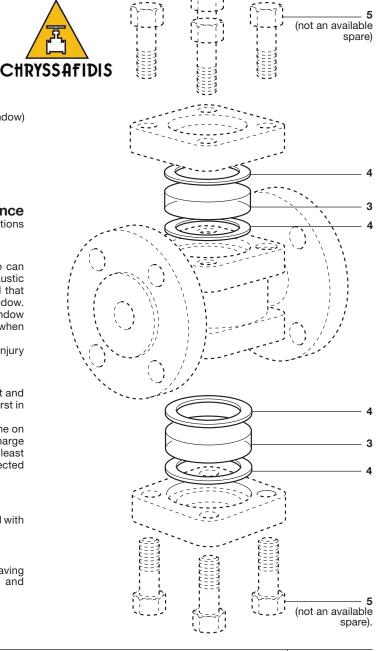
Ensure access is available for maintenance purposes

Disposal

The product is recyclable. No ecological hazard is anticipated with disposal of this product providing due care is taken.

How to order

Example: 1 off Spirax Sarco DN20 SG253 sight glass having an SG iron body, removable toughened glass windows and flanged EN 1092 PN25 connections.



Recommended tightening torques

Item	Size	Qty			or 🙀	N m
5	DN15 - DN20	8		17 A/F	M10 x 30	12
	DN25 - DN32	8	Pre 08-2010:	17 A/F	M10 x 35	28
			Post 08-2010:	16 A/F	M10 x 40	
	DN40 - DN50	8		19 A/F	M12 x 40	38