FEATURES

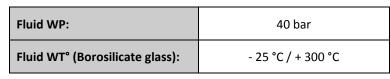
The USV-type sight glass is designed for the visual inspection of flow for fluids inside medium-pressure piping. Built of forged steel and double glass, it can have threaded connections or flange connections The windows are made of borosilicate, for a maximum operating temperature of 300°C. It is especially designed for inspecting the condensate downstream from the steam traps of the steam circuits. It can be installed in any position.

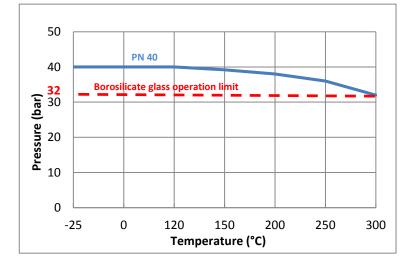


AVAILABLE MODELS

<u>G threaded connection</u>: G 1/2" to G 1". (40 bar up to 3/4" and 20 bar beyond). <u>PN40 RF flange connections</u>: DN15 to DN40. (40 bar up to DN 20 and 20 bar beyond).

LIMITS OF USE









DIRECTIVES AND MANUFACTURING STANDARDS

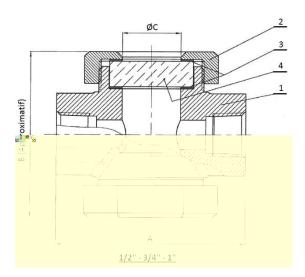
OBJECT	Standard	ON	OBJECT	Standard
Pressure Equipment Directive 97/23/EC	DN 15 to 20: A3 § 3 non-submitted	1115	Steel grades	EN 1503-1
	DN 25 to 40 : category III	1115	Material certificate	EN 10204 § 3.1
G threaded connection	ISO 228		FAF dimensions	EN 558-1 series 1
Flange connections:	EN 1092-1			

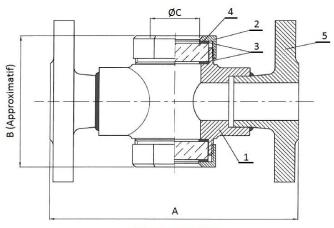
Information given as an indication only, and subject to possible modifications

USV STEEL SIGHT GLASS WITH BOROSILICATE WINDOWS

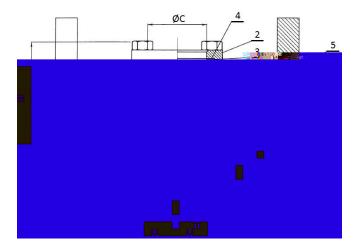
DN	1/2"	3/4"	1″	15	20	25	32	40
А	90	90	100	130	150	160	180	200
B (approximative)	80	80	90	80	80	90	125	125
С	28	28	35	28	28	35	55	55
Weight (kg)	01:15	01:05	01:12	2.6	03:15	3.7	7.9	7.98







DN15 - DN20 - DN25



CONSTRUCTION

No.	Name	Qty	Material
1	Body	1	ASTM A105 forged steel
2	Cover	2	ASTM A105 forged steel
3	Gasket	4	Fibre
4	Window	2	Borosilicate glass
5	F	2	ASTM A105 forged steel
6	В	8	Steel

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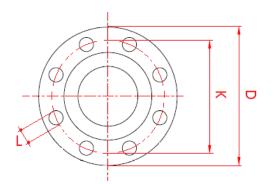
USV STEEL SIGHT GLASS WITH BOROSILICATE WINDOWS

INSTALLATION

- 1 Before any installation, cut-off the piping upstream and downstream.
- 2 Depressurize and drain the piping.
- 3 Wait for it to cool down to ambient temperature.
- 4 Wear the safety equipment required for this type intervention (gloves and goggles).
- 5 Horizontal or vertical installation.
- 6 <u>Threaded version</u>: screw the sight glass onto the piping using a suitable gasket.
 <u>Flange version</u>: screw the upstream and downstream flanges by using beforehand flange gaskets suitable for the operating conditions.
- 7 Position the device so as to make the windows visible to operators.

Use the following types of bolts:

ISO PN40 flange dimensions						
DN	D	к	L	Qty	Ø	
15	95	65	14	4	M12	
20	105	75	14	4	M12	
25	115	85	14	4	M12	
32	140	100	19	4	M12	
40	150	110	19	4	M12	



SERVICING

- 1 Unscrew the tightening nuts or bolts (according to the type) and remove the gaskets and the windows.
- 2 -Clean the internal parts.
- 3 Check the state of the windows, detect any beginning of corrosion or erosion, and replace them if needed.
- 4 Put the installation back in service.

SPARE PARTS

USV kit (2 x windows)				USV kit (4 x gaskets)	
DN	ø	Thickness (mm)	Code	Code	
1/2"	40	12	981057	081065	
3/4"	40	12	981057	981065	
1"	45	12	981058	981066	
15	40	12	981057	091065	
20	40	12	981057	981065	
25	45	12	981058	981066	
32	70	15	981059	981067	
40	70	15	981060	981068	