



VALVE AND FLOW CONTROL SPECIALISTS
SERVICE AND RELIABILITY

Sight Glass (Flow Indicator) for Steam Traps
AKA Vaposcope
FIGURE NO. VK-16F

Pressure rating : PN40
End Type : Flanged DIN40 / ASA option FLANGED ONLY
Materials : Cast Steel Body
Size Range: Flanged DN15 to DN to DN 50



Description

The GESTRA Vaposcope is a sight flow indicator specially designed for monitoring flow conditions in pipelines. If installed **upstream** of steam traps the Vaposcope can be used for checking the traps for **steam loss** or for **banking-up of condensate**.

Function

Steam and condensate flow in a pipe in separate phases towards the steam trap. The regulator of a properly working steam trap is adjusted in such a way that only condensate but not steam is discharged. The condensate in the sightglass VK ... flows under the deflector which remains immersed, or at least touches the condensate surface. Due to this siphon effect condensate is continuously moved to the steam trap where it is evacuated. **Fig. 1**

Complete flooding of the Vaposcope VK ... indicates banking-up of condensate. This may be done on purpose or because the steam trap is either undersized or failing to work correctly. **Fig. 2**

If the water level in the sightglass VK ... is being considerably depressed during normal operation, it is a sure sign that the steam trap is passing live steam. **Fig. 3**



Fig. 1



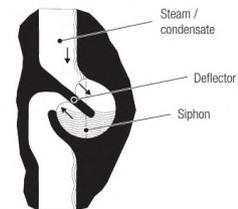
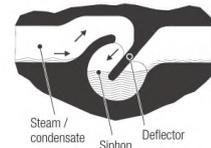
Fig. 2



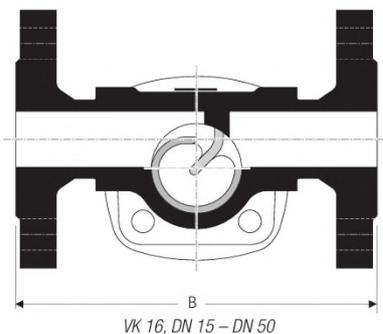
Fig. 3

Installation

Upstream of the steam trap, with the deflector pointing downwards and in accordance with the direction indicated by the flow arrow. For installation in vertical and horizontal pipes.



The regulator of the steam trap is probably failing or the cleaning valves are open. **Fig. 3**



Dimensions and weights VK 16		Flanged to DIN				
Size DN	[mm]	15	20	25	40	50
	[inch]	½	¾	1	1 ½	2
Length B1	[mm]	150	150	160	230	230
Length B2	[mm]	130	150	160	200	230
Approx. weight	[kg]	4.0	5	5.5	13.0	15.5



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Sight Glass (Flow Indicator) for Steam Traps AKA Vaporscope
FIGURE NO. VSG-C16S

Pressure rating : PN16
End Type : BSP Screwed

- Materials :** SG25 Iron Body
Size Range: Screwed DN15 to DN 50
- * Stainless Steel Body Bolting is standard
 - * F-F manufacturers standard
 - * Temperature Tempered Sodalime Glass 150 Deg C
Borrosilicate Glass 300 Deg C
 - * PTFE Gasket standard, Graphite with Borrosilicate glass.

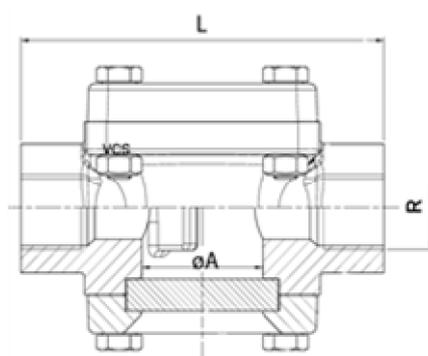


OPTIONS :

* Standard Glass is Sodalime for higher temps Borrosilicate and change out gasket is available for up to 300 Deg C. This maybe advantageous if installed in FRONT of the trap. Both glasses are available as spares.

These Sight Glasses can be installed in front or after a steam trap unlike traditional sightglasses.

These are an extremely robust Sight Glass the conceptional designed is to give a true indication of steam trap functionality unlike others. We recommend installation in front (upstream) of the steam trap.



DIAMETER	Threaded			
	A	R	L	Weight (kg)
1/2"	40	15	100	2,1
3/4"	40	20	120	2,1
1"	50	25	135	2,2
1 1/4"	70	32	158	3,5
1 1/2"	68	40	185	3,9
2"	85	50	219	6,2

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