

Spiraview

The Spirax Marshall Spiraview is a novel product that allows you to visualise the flow of steam, water or oil inside pipelines. The visualisation of flow will help you diagnose problems occurring in equipment upstream or downstream of the Spiraview.

Spiraview overcomes the problems of poor visibility and improper distinction between vapour and condensate flow by using a deflector plate to separate the vapour and condensate. This new design is ideal for applications in which one wants a clear indication of flow, such as downstream of paper drying cylinders, in DM water lines or monitoring steam traps and heat exchangers.

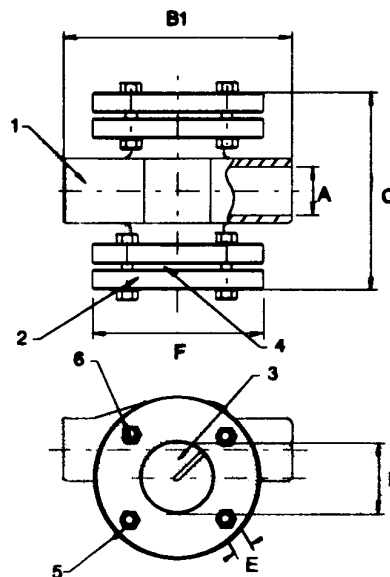
The two large windows of oil-lapped toughened borosilicate glass, which resist the etching and sludge buildup common to the normal glass used in other sight glasses, further improve visibility in the Spiraview. The borosilicate glass remains clear, preventing the frequent glass replacement necessary with other sight glasses, and the double glass configuration keeps the flow back-lit for better viewing.

Dimensions : (approx.) in mm.

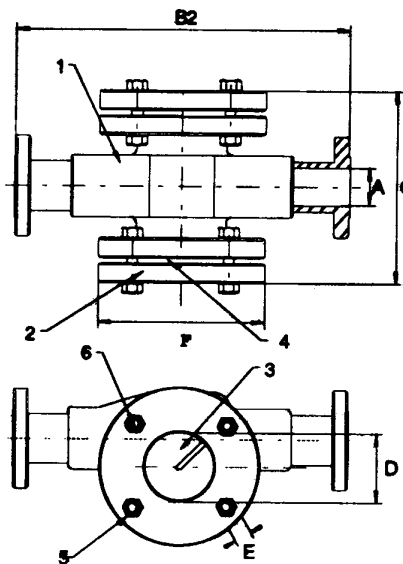
A	B1	B2	C	D	E	F	Wt(kg)
15NB/20NB	130	230	132	40	M12	110	8
25NB	190	290	170	55	M12	135	10
40NB	206	306	212	70	M16	160	12
50NB	230	330	232	70	M16	160	14

Material :

No.	Part Description	Material
1.	Body	SA 216 WCB
2.	Flange	CS
3.	Toughened Glass	Borosilicate oil-lapped glass
4.	Gasket	Asbestos free, Klingersil
5.	Nut	High Tensile
6.	Stud	High Tensile



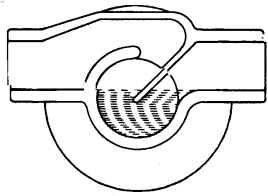
Screwed, Socket Welded Version



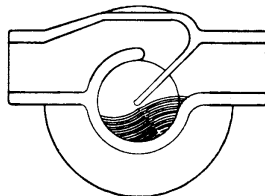
Flanged Version

Clear Flow Viewing :

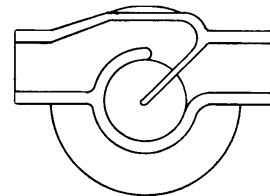
Spiraview is designed to give you a clear visualisation of flow conditions with the unique feature of its deflector plate stationed in the sight chamber. Under normal conditions, a pool of condensate / liquid forms at the bottom of the sight chamber. When vapour is also passing through the pipeline, the vapour is guided by the deflector plate into the pool of liquid. The density difference between the vapour and liquid causes the pool of liquid to become depressed, thereby indicating flow of vapour.



Liquid Flow only



Condensate & Vapour Flow



Vapour Flow only

Available Sizes :

15 mm, 20 mm, 25 mm, 40 mm, 50 mm

Available End Connections :

Socket welded

Screwed : BSPT, NPT

Flanged : BS 10, DIN (ND 25, ND 40),
ANSI (150, 300)

Limiting Conditions :

Maximum operating pressure	20bar
Maximum operating temperature	250°C.
Cold hydraulic test pressure	40bar

Applications :

Condensate lines - Spiraview can be fitted on a condensate line to monitor steam flowing with the condensate. Because of the improved visibility it offers, Spiraview is especially suited for use in lines with high speed flow.

DM water lines - Due to the turbulence effect at the deflector plate, very clear fluids can be monitored using Spiraview. Thus, a Spiraview fitted on a DM water line can indicate flow of DM water.

Oil lines - The flow of oil and oil vapour can be visualised using Spiraview.

Heat exchangers - Spiraviews can be used to check the efficiency of heat exchangers, especially in condensers. A Spiraview can be fitted downstream of a condenser, and flow of steam indicates a loss of performance in the condenser or a change in coolant conditions.