

FLOTROL
SIGHT
GLASSES



FOR PROCESS INDUSTRIES

GENERAL

FLOTROL SIGHT GLASSES cover the fullt series of flow glass to suit every application in the chemical industry. The standard types are given in this literature while your special requirements shall be attended individually by our engineers.

FULL VIEW FLOW GLASSES

SPECIFICATIONS :

GLASS	: Borosilicate
GASKETS	: Compressed Asbetors, Standard Teflon Viton EPDM optional
PRESSUR	: 10 Kg/Cm ² -15Kg/cm ²
PACKING FLANGE	: Aluminum
BOLTS	: High Tenile Steel
SIZES	: ½" through 12" NB.
CONNECTION	: Flanged to ASA 150/300, BS10 or DIN. Standars and Scrwed BSP. NPT.
PROTECTIVE GUARD	: C.S. Pipe Shied, Acrylic Pipe. Tie Rods
M. O. C	: M.S, C.S, S.S. 304, 55316 P.P., PVC, HDPE, FRP TEFLON / RUBBER / LEAD LINING

FSG 110 Flow Glasses are assembled with tubular flared glass, simple in construction and are used for checking flow from any direction where various vaives or pumps might have to be operated based on the flow in the line. These are recommended where there is no mechanical strain in the pipe line.

FSG 110 (A) This model is same as FSG 110 except that of rigid construction and it can take moderate strains.

FSG120 is same as Model 110 in construction except that is has a dip-tube so that vertical flows and colourless flows can be detected due to the projecting dip-tube.

FSG 130 is also assembled with tubuiar glass but are fixed with two extra spool pieces of material same as the pipeline to avoid breakage of glass during installation due to pipe strain. Spool pieces are manufactured in Mild steel, Stainless Steel, PVC, FRP, PTFE and Lead Lining.

FSG 140 FSG 140 is Q.V.F. Type with Teflon Bush and Contact parts. Simplicity in maintenance and replacement of glass.



DOUBLE WINDOW FLOW GLASSES

SPECIFICATIONS:

MAIN BODY	: M.S. C.S.SS 304, SS 316, P. P., PVC FRP Lining PTFE Lining, Rubber Lining, Lead Lining on request.
COVER PLATE	: M. S, C, I, Forged Steel, S.S.
GLASS	: Toughened borosilicate
GASKET	: Compressed asbestos standard. Teflon Viton, EPDM Optional
CONNECTION	: Screwed BSP, NPT, Socket Weld and flanged ASA, BS, DIN.
SIZE AVAILABLE	: ½" through 12"
FLAPPER/WHEEL MATL	: Aluminium, SS, PVS, P. P, PTFE
PRESSURE	: 15 kg/Cm ² -200 Kg/Cm ²
STEAM JACKET	M. S, S. S

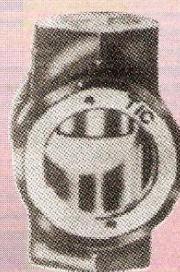
FSG 210 DOUBLE WINDOW Sight glasses are assembled with 2 nos. Of circular flat glasses on either side of a slotted main body of specified material. These flow indicators are best adapted to vertical downward flow. These models are particularly useful in distillation and similar apparatus where flow is apt to be intermittent. They are designed without any obstruction to handle the intermittent flow as well as full flow can be supplied with or without Dip-Tube as per requirements. Available upto high pressure rating.

FSG 220 FLAPPER TYPE Sight Flow Indicators are identical in construction to FSG-210 except that these are fitted with flappers to indicate flow. These flow indicators are recommended for horizontal and vertical pipelines with upward flow. These units are best suited to transparent or slightly opaque solutions and are used for gases. Position of flapper indicates flow. One important use of these flow indicators is in lines where a downstream valve may remain closed and even though the flow glass remains full, there may not be any flow. In such cases, the flapper position alone can indicate whether there is flow or not. (Example : Cooling water flow to bearing may be stopped by a human error of closing a downstream valve and only the flapper can indicate the real position).

FSG 230 ROTATING WHEEL TYPE Sight flow indicators with rotating paddle wheel are suitable for installation in any position, but are particularly adapted to pipe lines carrying dark opaque solutions, where the motion of the wheel is easily detected. This model is equally adapted to transparent solutions and gases. It is frequently installed where observations must be made from a distance.

FSG 240 EXTRA LARGE WINDOW with or without Flapper, Dip-tube, Rotating Wheel, Floating Ball can be supplied on special request.

FSG 300 ANGULAR TYPE designed to meet any requirements where straight line indicators are not suitable. This sight flow indicator can be furnished with or without a dip-tube which is brought into the centre area of the window for easier observation.



FSG 210
(SCREWED)



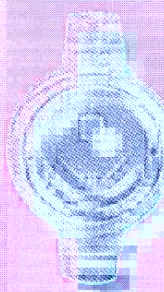
FSG 220
(SCREWED)



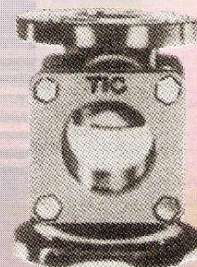
FSG 230
(FLANGED)



FSG 240
(FLANGED)



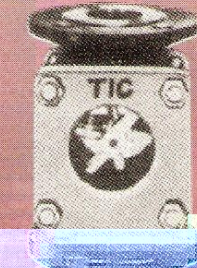
FSG 210
(FLANGED)



FSG 220
(FLANGED)



FSG 230
(SCREWED)



FSG 240
(SCREWED)

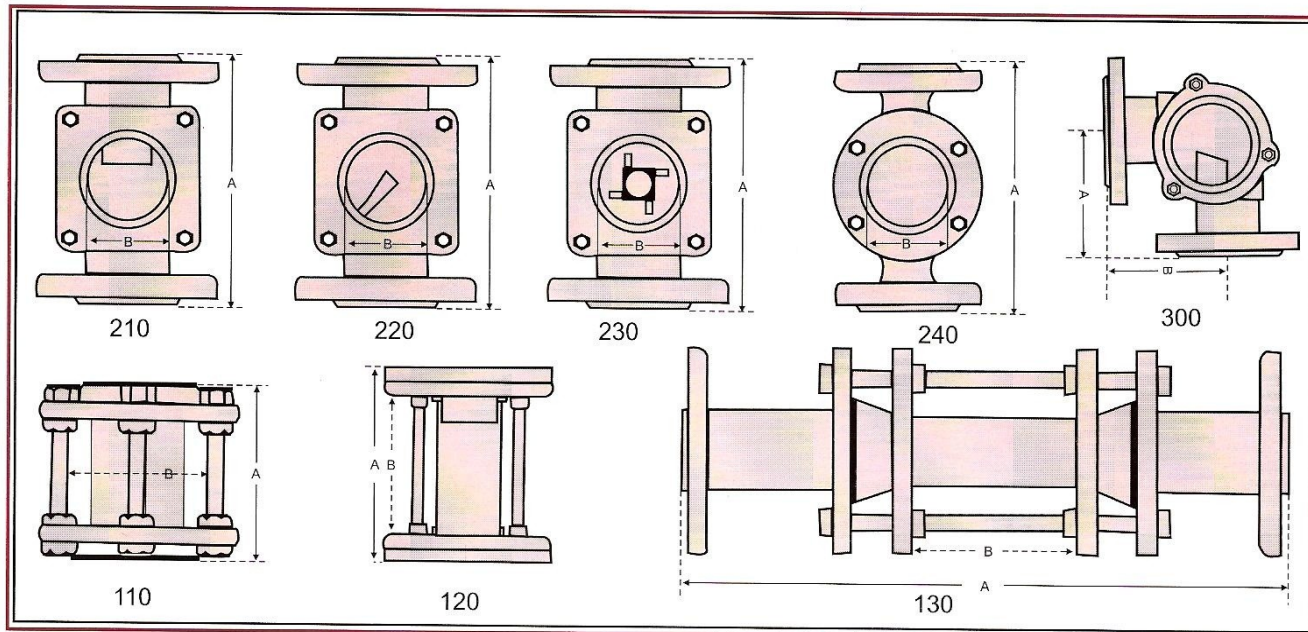


FSG 300



FSG 210
(SCREWED)

DIMENSIONAL DATA



ALL DIMENSIONS ARE IN MM(±5)

SIZE NB	MODEL 110 & 120	MODEL 130	MODEL 210, 220 & 230 FLANGED		MODEL 300		MODEL 210, 220 & 230 SCREWED		MODEL 240	
	A	A	A	B	A	B ϕ	A ₁	B ₁ ϕ	A	B ϕ
15	100	200	178	50	120	50	90	25	178	50
20	100	200	178	50	120	50	90	25	178	50
25	100	200	178	50	120	50	90	25	178	50
40	100	220	178	50	130	75	120	40	200	75
50	120	240	178	50	140	100	130	50	230	100
80	150	300	230	80	175	150	160	80	260	100
100	200	360	250	100	240	200	200	100	—	—
150	260	460	280	150	240	200	—	—	—	—
200	350	500	340	200	310	200	—	—	—	—
250	350	550	550	200	340	250	—	—	—	—
300	400	600	660	200	390	300	—	—	—	—

OUR OTHER PRODUCTS: Level Gauges, level Switch, Flow Switches, Oribico Plates, Monometer, Rotameters, SRV, PRV, Ball Valves, Breather Valves, Gate-Globe-Chock Valves, Flame Arrestors, Flush Bottom Valves, Strainers, Instrumentation Valves & Manifolds.



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VALVES & INSTRUMENTS