GENERAL
FLOTROL SIGHT GLASSES cover the full 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 Asbestos, Standard
  Teflon Viton EPDM optional
- **PRESSURE**: 10 Kg/Cm² - 15 Kg/cm²
- **PACKING FLANGE**: Aluminum
- **BOLTS**: High Tensile Steel
- **SIZES**: ½” through 12” NB.
- **CONNECTION**: Flanged to ASA 150/300, BSIO or DIN. Standard and Screwed BSP, NPT.
- **PROTECTIVE GUARD**: C.S. Pipe Shield, Acrylic Pipe. Tie Rods
- **M.O.C**: M.S, C.S, S.S. 304, 55316
  PP, 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 valves 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.

**FSG 120** is same as Model 110 in construction except that it 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 tubular 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: ¼" through 12"

FLAPPER/WHEEL MATL: Aluminium, SS, PVS, P.P., PTFE

PRESSURE: 15 kg/Cm² - 200 Kg/Cm²

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.

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

FEG 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.
### DIMENSIONAL DATA

All dimensions are in MM (+/- 5)

<table>
<thead>
<tr>
<th>SIZE (NB)</th>
<th>MODEL 110 &amp; 120 A</th>
<th>MODEL 30 A</th>
<th>MODEL 210, 220 &amp; 230 FLANGED A</th>
<th>MODEL 300 A</th>
<th>MODEL 210, 220 &amp; 230 SCREWED B</th>
<th>MODEL 240 A</th>
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**OUR OTHER PRODUCTS:** Level Gauges, Level Switch, Flow Switches, Orbico 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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