

# Sight Flow Indicators

## Type F - With Flap & Scale Plate

Data Sheet VP1.01

- **Stainless steel flap and scale plate**
- **CE Marked and fully compliant with the Pressure Equipment Directive**
- **With threaded or flange connections**
- **Pressures up to 60 Bar**
- **Temperatures up to 250°C**
- **Short lead Times**



### Applications:

With the flap and easy to read scale the Type F sight flow indicator is used to check the flow rate of a liquid in a pipeline. It can be used in vertical or horizontal lines and is ideal as a plant safety device where you need to maintain a constant flow, for example in lubricating or cooling systems.

### Advantages:

- **Fully PED Compliant**
- **Ease of Maintenance:**  
**Glasses can be individually removed & replaced**
- **Easy to read scale**
- **Durable construction**

### Construction:

- Screwed connections to NPT, BSP parallel or taper. Socket weld also available
- Standard Flanges include ANSI 150, ANSI 300 and PN16
- Special flanges available
- Body cast in stainless steel or carbon steel
- Stainless steel covers, screws & flap
- PTFE gaskets
- Sodalime glass to BS3463 rated to 16 Bar
- Borosilicate glass recommended for steam & condensate
- Mica discs used to protect glass from alkaline liquids or steam

### Options:

- **Special Materials:** Including Super Duplex or Low Carbon Steels.
- **NACE MR 0175:** Sightglasses can be produced to conform with NACE MR0175
- **Lining:** Body & flap can be lined with HALAR, ECTFE or PFA for particularly corrosive applications
- **High pressure** soda lime glass to BS3463 rated to 60 bar
- **High pressure** range uses powder coated mild steel covers as standard, stainless steel covers available as an option
- **Toughened Borosilicate** to BS3463 or DIN7080 rated to 16 Bar
- **External pointer** – for dirty or darkly coloured liquids one window can be replaced with a steel cover & external pointer
- **Spring** – for high flow rates and vertical lines the flap can be spring loaded. This option gives 3 times the normal flow range
- **Lighting** – illuminate the process. Wide range of process lighting available for both safe and Ex Hazardous area environments

### Quality:

- Manufactured to the highest standard
- Quality system is independently audited by BSI and certified to ISO9000.
- Indicators are fully PED compliant & CE marked where required
- Full material traceability is maintained, material Test certificates & pressure test certificates supplied on request

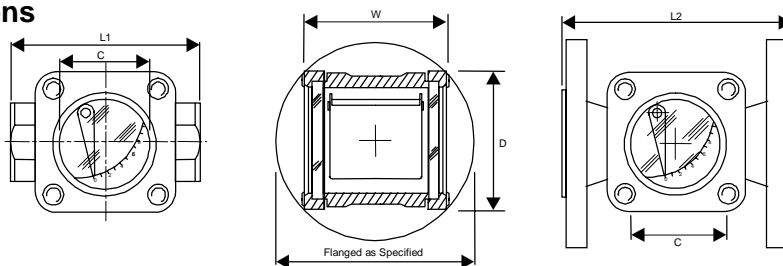
### Specification Code

SF CF			Body Stainless steel body BS 1504 316 C16 Carbon steel body BS 1504 161 GR480																																																																		
	H B HB		Glass Material & Pressure Range Toughened soda lime glass to BS3463 rated to 16 bar (Standard) Toughened soda lime glass to BS3463 rated to 40 bar Toughened borosilicate glass to BS3463 Toughened borosilicate glass to DIN 7080																																																																		
		015 020 025 040 050 080 100 150 200	<table border="1"> <thead> <tr> <th rowspan="2">Indicator Size</th> <th colspan="5">Flow Ranges – litres/minute</th> </tr> <tr> <th>Scale Reading</th> <th>2</th> <th>4</th> <th>6</th> <th>8</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>15mm / ½"</td> <td>3.0</td> <td>4.5</td> <td>5.5</td> <td>8.0</td> <td>20.0</td> </tr> <tr> <td>20mm / ¾"</td> <td>3.0</td> <td>5.0</td> <td>6.0</td> <td>9.5</td> <td>20.0</td> </tr> <tr> <td>25mm / 1"</td> <td>3.5</td> <td>6.0</td> <td>8.0</td> <td>13.0</td> <td>30.0</td> </tr> <tr> <td>40mm / 1 ½"</td> <td>8.5</td> <td>12.5</td> <td>16.7</td> <td>25.0</td> <td>55.0</td> </tr> <tr> <td>50mm / 2"</td> <td>11.0</td> <td>18.0</td> <td>25.0</td> <td>38.0</td> <td>70.0</td> </tr> <tr> <td>80mm / 3"</td> <td>29.0</td> <td>46.0</td> <td>64.0</td> <td>118.0</td> <td>230.0</td> </tr> <tr> <td>100mm / 4"</td> <td>53.0</td> <td>86.0</td> <td>127.0</td> <td>188.0</td> <td>400.0</td> </tr> <tr> <td>150mm / 6"</td> <td colspan="5">given on request</td> </tr> <tr> <td>200mm / 8"</td> <td colspan="5">given on request</td> </tr> </tbody> </table>	Indicator Size	Flow Ranges – litres/minute					Scale Reading	2	4	6	8	10	15mm / ½"	3.0	4.5	5.5	8.0	20.0	20mm / ¾"	3.0	5.0	6.0	9.5	20.0	25mm / 1"	3.5	6.0	8.0	13.0	30.0	40mm / 1 ½"	8.5	12.5	16.7	25.0	55.0	50mm / 2"	11.0	18.0	25.0	38.0	70.0	80mm / 3"	29.0	46.0	64.0	118.0	230.0	100mm / 4"	53.0	86.0	127.0	188.0	400.0	150mm / 6"	given on request					200mm / 8"	given on request				
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### Materials of construction

Covers (Standard)	-	Stainless steel BS 1504 304 C15
(High Pressure)	-	Powder coated mild steel (machined stainless steel an option)
Internal Gasket	-	PTFE
External Gasket	-	Klingersil C4400
Edge Protector	-	Klingersil C4400
Fastners (Standard)	-	A2 Stainless Steel
(High Pressure)	-	High tensile steel

### Dimensions



NOMINAL BORE	LENGTH L1	LENGTH L2	WIDTH W	DEPTH D	CLEARVIEW C
15/20mm	85	130	63	60	42
25mm	95	140	72	66	48
40mm	120	180	102	84	62
50mm	150	220	118	106	77
80mm	N/A	260	160	170	100
100mm	N/A	260	196	170	100
150mm	N/A	360	304	220	150