

SELECTING THE RIGHT SIGHT FLOW INDICATOR

Placing the right sight flow indicators in the right places is not only a proven way to save considerable time and money, but also a sure-fire formula for identifying and repairing process-line problem areas reliably and efficiently.

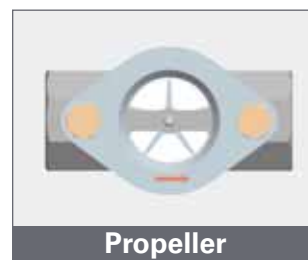
For example:

- Opaque liquids are best shown by a propeller indicator.
- A bi-directional flapper is the indicator of choice to indicate flow and flow direction.
- A plain bi-directional sight flow indicator without a flapper is best in instances where observing color and clarity is more important than verifying flow.
- Drip tube, used in vertical lines, is ideal for gravity flow as well as for extremely low or intermittent flow.

Installation options include threaded, flanged, and socket or butt weld ends.



Bi-Directional Plain



Propeller



Bi-Directional Flapper



Drip Tube

Material Selection Chart:

(shows factors that determine the selection of materials)

Influencing Factors	Components				
	Body Metal	Seals	Glass Lens	Indicator Material	Indicator Type
Fluid Compatibility	■	■	■	■	■
Fluid Color				■	■
Temperature	■	■	■	■	
Pressure	■		■		
Flow Rate					■
Pressure Drop					■
Environment	■	■	■		

While selecting the right type of indicator is relatively easy, the more difficult task is determining which materials are most appropriate and cost-effective for the job.

Variables to be considered include:

Body Material

- Bronze, ductile iron, carbon steel and stainless steel are standard.
- Special materials, such as Monel® and Hastelloy®, are also available.

Seal Material

- Buna-N, Viton®-A, copolymers of ethylene and propylene, neoprene and Teflon® are commonly used for specific chemical applications.
- Choice of seal material usually dictates temperature limitation.

Glass Type

- Soda-lime and borosilicate, available in annealed or tempered, are the two most common types.
- Mica shields (or similar protection) for the glass are effective when steam is present in the process line.
- Optional shields for installation above the glass are recommended.

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