

Turning Ideas Into Engineered Solutions

KAYDON

CUSTOM FILTRATION

MODEL 816BC TELEFLO DIAL INDICATOR

DESCRIPTION

A rugged design and positive operation permits a wide range of applications. For over 30 years Teleflo Indicators have provided electrical liquid flow control, protecting thousands of installations against costly equipment damage.

APPLICATIONS

Activation of controls for:
Equipment Shut Down
Alarm
Other Desired Controls

FEATURES

- Separate headcasting and a spring loaded vane to gauge liquid flow.
- Easy access for electrical connection to switch terminals or switch cam adjustment.
- Factory adjustment, causing switch operation when the dial pointer advances $1\frac{1}{2} \pm \frac{1}{2}$ graduations from the rest or no-flow conditions.
- After establishing the dial pointer position for the desired liquid flow, the switch cam may be adjusted for increased or decreased liquid flow.
- Complete liquid flow control may be obtained by installing two Teleflo Indicators; one set for increased liquid flow, and one set for decreased liquid flow control.

INSTALLATION AND ADJUSTMENT

Teleflo Indicators may be installed in any position in the liquid line. The position of the red pointer during the desired liquid flow must be determined and noted for later resetting. **Maintain this flow during switch adjustment.** Graduation mark 15 is used here as an example for the desired liquid flow.

Procedure:

Remove the four round head screws holding the cover, glass and dial in position.

Temporarily replace the dial with the same four screws.

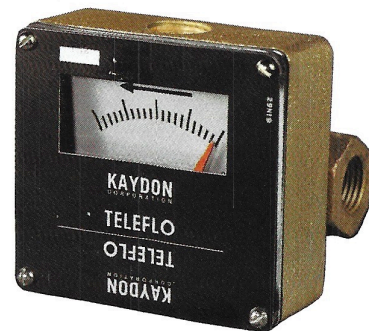
For Increased Liquid Flow

Hold the red pointer firmly with fingers and loosen the slotted shaft nut. Rotate the red pointer in a direction against the liquid flow until switch click or continuity tester indicates switch closure. Retighten nut. Holding the red pointer, loosen the round head positioning screw and rotate the red pointer to the desired flow graduation position, mark 15, and retighten red pointer positioning screw. Test for switch closure by increasing liquid flow.

For Decreased Liquid Flow

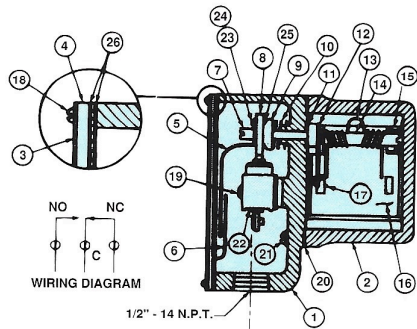
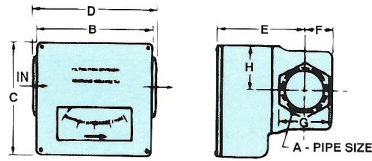
Hold the red pointer firmly with fingers and loosen the slotted shaft nut. Rotate the red pointer in a direction against liquid flow until switch click or continuity tester indicates switch opening, then rotate back to obtain switch closure and retighten nut. Proceed as in adjustment for increased liquid flow and test for switch opening by reducing liquid flow.

Connect necessary switch leads and replace cover, glass and dial.



Model 816BC Teleflo Dial Indicator

SPECIFICATIONS AND REPAIR PARTS



Specifications

1. Body and head casting—Bronze—85-5-5-5.
2. Finish—bronze acid dip.
3. Dial—aluminum background with black graduations.
4. Pointer—brass painted red.
5. Window—clear acrylic plastic.
6. Switch—S.P.D.T.—15A-125V, 7A-250V.
7. Head Gasket—Garlock 7022.
8. Seal—Viton A "O" Ring seal.
9. Pressure—125 PSI at 200°F.
10. Weatherproof head.

Dimensions

*General Assembly Number	51B22	51B05	51B06	51B08	51B09
NPT Opening	1/2	3/4	1	1 1/2	2
Pipe Tap Size	1/2	3/4	1	1 1/2	2
A	3 5/8	3 5/8	3 5/8	3 5/8	4 1/2
B	3 5/8	3 5/8	3 5/8	3 5/8	4 1/2
C	3 5/8	3 5/8	3 5/8	3 5/8	4 1/2
D	3 5/8	3 5/8	3 5/8	3 5/8	4 1/2
E	2 1/4	2 5/8	2 5/8	2 7/8	3 3/8
F	1 1/16	1 5/16	1 5/16	1 3/8	1 3/4
G	1 3/16	1 9/16	1 9/16	2 1/4	3 1/4
H	1 5/16	1 5/16	1 5/16	1 11/16	2 3/32

*Specify general assembly number when ordering for desired NPT opening.

Repair Parts List

Description	No. Req'd.	1/2"	3/4"	1"	1 1/2"	2"
1 Head-Mod. 816BC	1	88044	88044	88044	88046	88048
2 Body	1	51B23	51B10	51B11	51B13	51B14
3 Cover	1	29N19	29N19	29N19	29N19	29N20
4 Window	1	13N50	13N50	13N50	13N50	13N55
5 Pointer	1	88059	COMMON TO ALL SIZES			
6 Dial	1	88050	88050	88050	88050	88051
7 Shaft Nut	1	87311	COMMON TO ALL SIZES			
8 Pointer Spacer	1	87308	COMMON TO ALL SIZES			
9 Spring Retainer	1	87331	COMMON TO ALL SIZES			
10 Shaft Spring	1	26A82	COMMON TO ALL SIZES			
11 Gasket	1	04E79	COMMON TO ALL SIZES			
12 Shaft Arm Ass'y.	1	87305	COMMON TO ALL SIZES			
13 Flap Spring	1	50B53	87328	87328	87317	87329
14 Flap Screw	1	37B57	37B58	37B58	37B59	37B60
15 Spacer	2	37B56	COMMON TO ALL SIZES			
16 Flap	1	50B51	37B65	37B65	37B66	37B67
17 Toggle Link	1	87314	87314	87314	87315	87316
18 Screw R.H.M.S.	4	24024	COMMON TO ALL SIZES			
19 M/S Mtd. Screws	2	24010	COMMON TO ALL SIZES			
20 Head Gasket	1	87736	87736	87736	87737	87738
21 Screw	4	21263	21263	21263	26564	26585
22 Micro Switch	1	87319	COMMON TO ALL SIZES			
23 Screw	1	24412	COMMON TO ALL SIZES			
24 Lockwasher	1	29288	COMMON TO ALL SIZES			
25 Lockwasher	1	29291	COMMON TO ALL SIZES			
26 Gasket	1	13N48	13N48	13N48	13N48	13N53

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Flow Rate Information

- The High Flow Point is the flow rate that will give a full flow reading on the scale. This is not the maximum flow that can be pumped through the flow switch.
- The Low Flow Point is the lowest flow that will move the flow indicator needle to indicate flow. A flow below this point is too low for the flow switch to indicate.
- The Switch Setting is the flow at which the switch will activate (change the NC contact from "closed" to "open"). The switch is a SPDT (single pole double throw).



150 SSU Turbine Oil

Size	Low Flow Point	High Flow Point	Switch Setting
1/2"	2gpm	28gpm	2.5gpm
3/4"	4gpm	32gpm	4.5gpm
1"	6gpm	60gpm	7gpm
1 1/2"	8gpm	65gpm	9gpm
2"	10gpm	75gpm	11gpm

Dimensions

General Assembly Number	816BC-1/2"	816BC-3/4"	816BC-1	816BC-1 1/2"	816BC-2
NPT Opening	1/2"	3/4"	1"	1 1/2"	2"
A Pipe Tap Size	1/2"	3/4"	1"	1 1/2"	2"
B Width of Dial	3 5/8"	3 5/8"	3 5/8"	3 5/8"	4 1/2"
C Height	3 3/8"	3 3/8"	3 3/8"	3 3/8"	4 1/2"
D Length Overall	3 5/8"	3 3/4"	3 1/4"	4 3/4"	6 1/2"
E Center to Front	2 1/4"	2 5/8"	2 5/8"	2 7/8"	3 3/8"
F Center to Front	1 1/16"	1 5/16"	1 5/16"	1 3/8"	1 3/4"
G Hex., Across Flats	1 3/16"	1 9/16"	1 9/16"	2 1/4"	3 1/4"
H Height from c of Pipe	1 5/16"	1 5/16"	1 5/16"	1 11/16"	2 5/32"

