

# FLOW SWITCH CUM INDICATOR



## Application:

- 1) Bearing Lube Oil
- 2) Gear Box Lube oil
- 3) Machine Tool Coolants
- 4) Cooling Water Lines
- 5) Seal Water
- 6) Corrosive Fluids, etc.



## Salient Features:

- 1) Spring loaded vane actuated by liquid flow is connected to a pointer that indicates a liquid flow reading on a graduated scale.
- 2) Switch set point adjustable.
- 3) Individually calibrated scale

## Operation:

The pointer and switch are located in the switch housing. The fluid enters in at the inlet and moves against the spring-loaded vane. The vane shaft connected to the pointer rotates according to the amount of fluid advancing against the vane. The movement of the pointer indicates fluid flow. The vane shaft also operates a cam that activates a micro switch. The vane shaft connected between the switch cover and body are sealed with an "O" ring. The removal of the cover screws permits easy access for connecting to switch terminals or cam adjustments.

## Installation:

Indicators may be installed in any position.

## Flow Rate Information:

- 1) The High Flow Point is the flow rate that will give a full flow reading on the scale.
- 2) The Low Flow Point is that 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.
- 3) The switch setting is the flow at which the switch will actuate.

## Principle Features & Benefits

- 1) Unique Concept of variable Area Orifice is incorporated
- 2) All metal construction – no tubes of glass or plastic to break.
- 3) Spring loaded mechanical design – requires no straight pipe run and not affected by orientation.
- 4) Limited movement on internal parts – minimal wear and down time.
- 5) Modular design – reduces maintenance costs, down time, and production loss.
- 6) Direct indication & field adjustable switches – monitors critical flows and provides alarms.
- 7) 1% of rate repeatable switch set point – accurate & reliable through all operation cycles.
- 8) Will pass twice the maximum indicated flow or range capacity up to 150%.
- 9) Individually calibrated scale to customer specification – ensures accuracy ( $\pm 15\%$  F.S.R.).
- 10) Flow through design – minimal pressure loss.
- 11) Weatherproof switch cover.
- 12) Orientation of enclosure box easily changed.
- 13) Adjustable under operating conditions.
- 14) Scale is in units (e.g. liters/minute).
- 15) Large range of body materials available.
- 16) Size range from 8mm ( $\frac{1}{4}$ " ) to 200mm (8").
- 17) May be installed in any position.
- 18) High switch rating – 5, 10 to 15 Amps.
- 19) Acts as non-return valve.
- 20) Certified "CE", optional.



## Ordering Code

CODE		TYPE & FLOW RANGE	
DKC*	CC	*PROVIDE FULL SCALE RANGE	
DKL*	LPM		
DKG*	GPM		
DKM*	M <sup>3</sup> / hr.		
CODE		MATERIAL OF CONSTRUCTION	
AL	ALUMINIUM	CI	CAST IRON
CS	CARBON STEEL	SS	STAINLESS STEEL
BR	BRONZE / BRASS	OM	OTHER MATERIAL
CODE		SERIES	
P	PISTON		
S	SMALL		
M	MEDIUM		
B	BIG		
CODE		PRESSURE RATING	
P1	20 BAR		
P2	OTHER PRESSURE		
CODE		TEMPERATURE RATING	
T1	-40°C to 100°C (BUNA SEALS)		
T2	-20°C TO 200°C (VITON SEALS)		
CODE		INDICATION OUTPUT	
PI	POINTER INDICATOR	Tx	4 – 20mA (4 wire)
S1	1SPDT (1NO + 1NC)	LCD	Display
S2	2SPDT (2NO + 2NC)	S	Special
CODE		VISCOSITY	
		SPECIFY VALUE & UNITS (e.g. WATER=1cs)	
CODE		DIRECTION OF FLOW	
LR	LEFT TO RIGHT	TB	TOP TO BOTTOM
RL	RIGHT TO LEFT	BT	BOTTOM TO TOP
CODE		PROCESS CONNECTION	
8	SCREWED		
10	B = BSP		
15	N = NPT		
20	F = FLANGED		
25	W = WAFER		
32			
40	For flanged or wafer add following code		
50	10, 16, 25 FOR DIN STANDARD		
65	150, 300 FOR ANSI B 16.5		
80	FD, FE, FF FOR BS 10		
100	T5, T17, etc. FOR IS 6392		
125			
150	5K, 10K, 16K, 20K FOR JIS STANDARD etc.		
200			

DKL150	CS	M	P1	T1	S1	1cs	RL	32F150
--------	----	---	----	----	----	-----	----	--------



## D. K. Instruments Pvt. Ltd.

An ISO 9001:2008 Certified Company

76/2, Selimpur Road, Dhakuria, Kolkata – 700 031.

Ph. No.: 91-33-2415 1310 / 2405 0944, Fax: 91-33-2415 2311.

E-mail: info@dkinstruments.com, Web Site: www.dkinstruments.com

Marketed By: