



FLUIDYNE FLOW SWITCHES PADDLE TYPE MODEL: BM-100

GENERAL

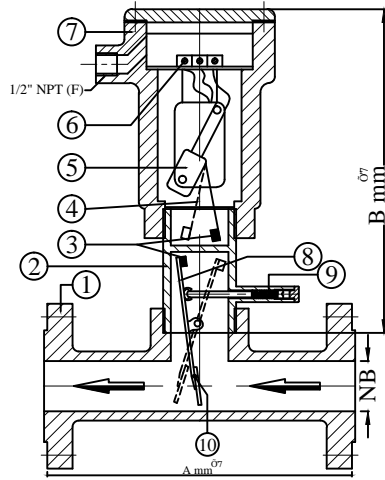
FLUIDYNE MAGNETIC & BELLOWS SEALED flow switches are versatile instruments designed to handle any fluid. Standard materials of construction and glandless design offered render the switches compatible with most of the corrosive and toxic fluids. The easy-to-fix design reduces installation costs and time. Simple mechanical parts ensures high reliability and zero - failures. The microswitch of the instrument is operated by the deflection of paddle or plunge assembly due to velocity of flowing-fluid against the restraining force of the range spring through a magnetic sealed lever at a predetermined flow rate.

FLUIDYNE switch also senses flow - no flow, responding only to the velocity of fluid movement in a duct. They provide a positive signal to detect change or loss of flow velocity caused by closed damper, a loose fan wheel, a slipped or broken fan belt, a dirty or clogged filter or even an overload to fan motor. Large paddle are used for reliable velocity switching.

GENERAL SPECIFICATION :

Line size	: 15mm to 1000mm (N.B.).
Mounting	: vertical or horizontal pipe.
Range	: refer table for standard range.
Repeatability / Accuracy	: +/-5% of Maximum flow.
Process Connection	: BSP/NPT for threaded versions, (1" or 1.1/4" NB) ANSI # RF for flanged versions, 1/2" to 12" pipe threads for integral, tee versions, special Sizes as per customer request.
Maximum Line Pressure	: 10 bar for brass body. 30 bar for SS BODY (higher rating available on request upto 300 bar 1 bar for duct mount version.
Maximum Process Temperature	: 170 Deg.C for brass body. 200 Deg.C for SS body.
Pressure Loss	: 60 to 80 m bar at maximum flow.
Mounting	: vertical or horizontal pipe.
Switching	: snap acting SPCO, (SPDT), DPDT microswitch rated 5A, 230V AC or 10A, 230V AC.
Dead Band	: 5 to 10% of maximum flow (10% at min. set valve & 5% at max set valve).
Enclosures	: pressure die cast aluminium weather proof to I.P. :65 & flame proof to Gr. II A & II b of IS : 2148 : 1981, on request.

TELEFLO PADDLE FLOW SWITCHES



SR	DESCRIPTION	MATERIAL
1	BODY	CS/SS304/SS316
2	CONNECTOR	SS 304/SS 316
3	MAGNET	ALNICO
4	SWITCH LEVER	SS 304/SS 316
5	MICRO SWITCH	1NONC,5A230V.
6	TERMINALS	BAKILITE
7	SWITCH HOUSING	DIE CAST ALUMINIUM
8	LEVER	SS 304/SS 316
9	SPRING	SS 316
10	PADDLE/TARGET	SS 304/SS 316

STANDARD FLOW RANGES PADDLE TYPE FLOW SWITCHES MODEL NO : BM-(CONN SIZE) - 15 TO 1000

***SWITCHING RANGE-LPM +/-10% OF FSR**

LINE SIZE NB (MM)	ON FALLING FLOW		ON RISING FLOW		MAXIMUM FLOW PERMISSIBLE LPM WATER	'A' FLANGED MM	'B' SCREWED MM
	MIN	MAX	MIN	MAX			
10 / 15	3	9	7	12	25	150	25
20	4	11	8	14	40	150	25
25	10	30	14	33	60	150	25
32	13	50	22	55	100	150	25
40	16	60	30	70	150	150	40
50	25	90	50	100	250	150	50
80	65 190	175 460	100 250	200 510	600	200	80
100	100 380	280 890	160 500	330 1000	1000	250	100
125	150 600	420 1360	250 700	500 1500	1400	280	-
150	100 100	510 2760	350 1500	610 2950	2000	280	-
200	650 1970	1510 3830	950 2500	1750 4200	3700	340	-
250	1240 2600	2410 4830	1700 3400	2800 5300	6000	550	-
300	1300	3100	2400 2700	3600 3600	8500	660	-
350	1400	3600	2500	5000	12500	-	-
450	1600	5600	3200	6400	16000	-	-
450	2500	9000	5000	10000	25000	-	-
500	3100	11000	6100	12500	30000	-	-
600	4500	14500	9000	20000	42000	-	-
750	6500	20000	13000	26000	65000	-	-
900	10000	35000	20000	40000	100000	-	-
1000	15000	50000	30000	60000	120000	-	-

NOTES : * SPECIAL RANGES ON REQUEST