ITEM NO.: 31

ITEM : FLOW SWITCHES PADDLE / VANE TYPE

REF. OUR G. A. DRG. NO. RFS-WPF-2008-A/O (OR) RFS-WPS-2010-A/O.

PRINCIPLE OF OPERATION:

Liquid flow in either direction deflects the paddle, which with a pivoting cam moves a permanent magnet equipped teflon shuttle along the unit stem. The magnet actuates the hermetically sealed switch within the stem to operate remote alarm or indicator.

REC Flow Switches are ruggedly built of carbon steel or SS valve base, SS paddle, Various other compatible materials are also supplied depending on service fluid. These are no stress points, enclosure or seals to wear or develop leakage under pressure. Maximum reliability is designed into these units for exceptional service life in the roughest industrial usage.

MATERIAL SPECIFICATIONS:

Line Size 1" or Above 2. Service To Mention . 3. Op. pressure Kg/Cm2g / temp.° C /Sp.Gr. To mention 4. Flow range in LPM / LPH / M3/Hr. To Mention 5. Max / Nor and set flow To Mention 6. Differential Closed and Fixed

7. Process connection : Screwed or flanged : To Mention 8. All wetted parts material : CS / SS304 / SS316 : To Mention

ELECTRICAL:

Contact rating
 Field enclosure
 Cable Entry
 Contact rating
 Cast aluminium Weatherproof or Flameproof
 "ET (F) STD.

4. Qty. : To Mention

BASIC SWITCH

Basic switch used is hermetically sealed, inert gas filled magnetic switch with gold plated contacts of the following specifications.

a. Contact rating : 15 watts suitable to operate Jyoti 110 VAC RE 300 relays directly.

b. Contact form C. Max . Initial contact resistance 150 milli Ohms d. Min. Insulation resistance 10 ¹¹ Ohms e. Max. operate time 0.5 mili second 100 million operations f. Life Expectancy SPST or SPDT Contact Form

DETAILS OF POWER PACK:

If the system output is to be connected to an Annunciator the contact rating is quite okay but it the final rating is needed of 230 VAC 5A we would supply a power pack.

This power pack can be fitted in the in the safe area and this is fabricated out of sheet metal. This is to be fed with 230 VAC 50 Hz as input. The field contacts from flow switch will also have to be connected to the power pack.

Final relay output will be 230 VAC 5 A with one changeover potential free contact.

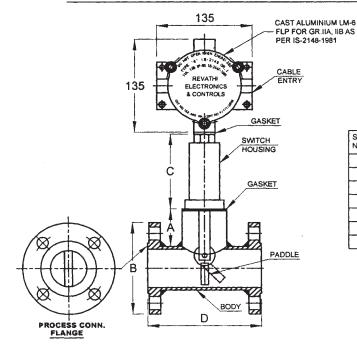
NOTE:

- 1. Flameproof enclosure is certified by CMRS Dhanbad for Groups IIA, IIB as per IS-2148-1981. The enclosure in addition is dust and vermin proof.
- 2. Flameproof enclosure for EEX -d-IIC T6 group also could be supplied for hazardous areas.

REVATHI ELECTRONICS & CONTROLS

ITEM NO.: 31

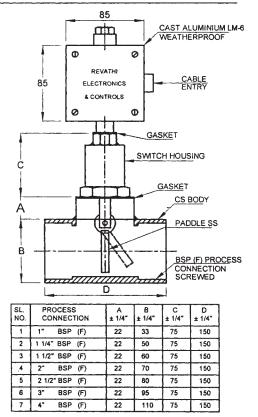
PADDLE TYPE FLOW SWITCH WITH FLANGED CONNECTION



SL. NO.	PROCESS CONNECTION	A ± 1/4"	B ± 1/4"	C ± 1/4"	D ± 1/4"
1	1" ANSI 150 # RF	22	108	90	150
2	1 1/4" ANSI 150 # RF	22	118	90	150
3	1 1/2" ANSI 150 # RF	22	127	90	150
4	2" ANSI 150 # RF	22	152	90	200
5	2 1/2" ANSI 150 # RF	22	178	90	200
6	3" ANSI 150 # RF	22	190	90	250
7	4" ANSI 150 # RF	22	229	90	250

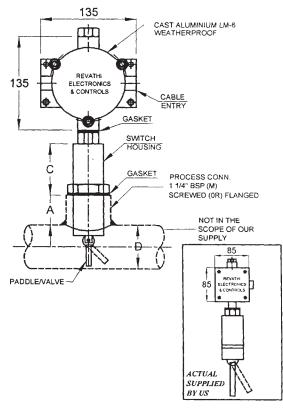
RFSP-WPF-2008-A/O FLANGED CONNECTION

PADDLE TYPE FLOW SWITCH WITH SCREWED CONNECTION



RFS-WPS-2010-OM-A/O SCREWED CONNECTION

PADDLE TYPE FLOW SWITCH WITH 1 1/4" BSP (M) TOP PROCESS CONNECTION



RFS-WPS-2010-A/O SCREWED CONNECTION