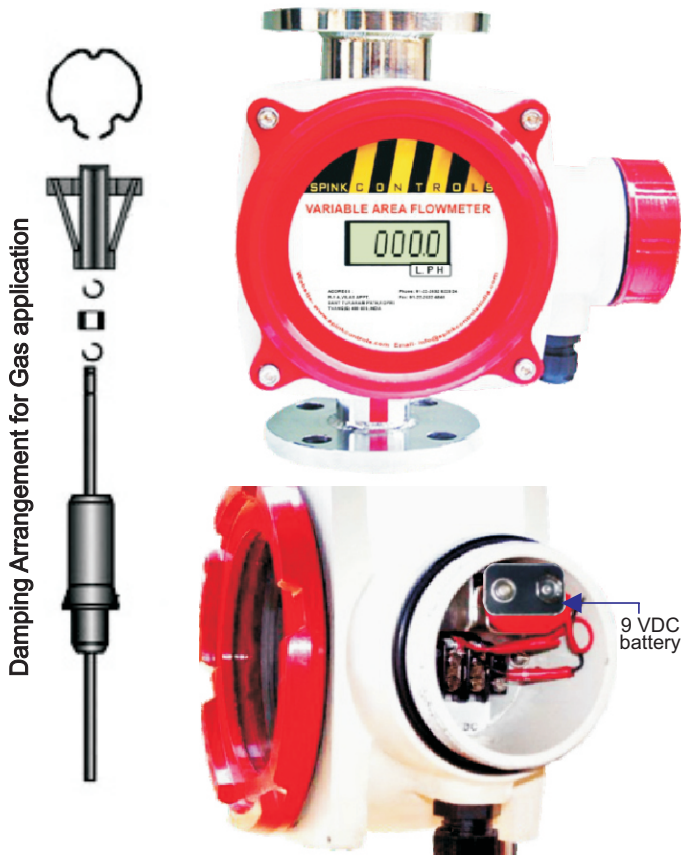


# DIGITAL METAL TUBE ROTAMETER

SERIES : SC / R - 300



It operates on the principal of variable area; the fluid in the metal tube raised a float in the taper tube increasing the area of passage of fluid. The float moves up in proportion to the rate of flow of fluid and get stabilized, when the weight of the float is balanced by the upward hydraulic force. By a magnetic coupling the inner float moment through a series of linkages and counter weight. The tube and the float combination determine the Flowrate. Digital Meter : The inner float magnetic field is detected by the high sensitive magnetic field detection sensor, enable us to show the digital readout As such this flowmeter does not require any electrical connection, since it operates on battery. It has an inbuilt two wire transmitter provide 24 VDC and take 4-20 mA Signal.

## BENEFITS OF SPINK CONTROLS DIGITAL VARIABLE AREA FLOW METERS

- Local indication without the need for auxiliary power.
- Minimum pressure loss.
- Easy to read.
- Suitable for low flow (10LPH) and High Flow 150 m<sup>3</sup>/hr
- Default inbuilt transmitter of 4 - 20mA (Loop Powered)
- No movement assembly reducing the maintenance.

### Model Code R - 300/D (with local indicator)

R-300/D	001	A	F	1	CC1	AL	N
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Base Model							
Battery Operated & 24 VDC loop powered 4-20 mA	001						
Totalizer with loop powered Transmitter	002						
230 VAC & 4-20 mA output	003						
Totaliser & Batch Controller- 230VAC	004						
High & Low switch	005						
Totalizer with Density correction Facility	006						

Float Material							
SS 304		A					
SS 316		B					
SS 316 L		C					
SS with PTFE		D					
PP / PVC		E					

Process Connection							
Flanged			F				
Screwed			S				
Tri-clover			T				
Any other			A				

Material of Construction-Body & Process connection							
SS 316				1			
SS 316L				2			
SS 304				3			
Poly Propylene				4			
Any other				5			

Flange to Flange Distance							
300 mm					CC1		
350 mm					CC2		
400 mm					CC3		
500 mm					CC4		

Enclosure							
Di-Cast Aluminum - Ex d IIB T4 IP 67						AL	
Stainless Steel 304 - Ex d IIA & IIB T6 IP 66						S1	
Stainless Steel 316 - Ex d IIA & IIB T6 IP 66						S2	
Other						O	

Accessories							
Jecketing							J

## TECHNICAL SPECIFICATION

ACCURACY	: +/-1.5% of FSR.
RANGEABILITY	: 10:1
REPEATABILITY	: +/-0.5% of FSR
TEMPERATURE RATING	: -50 to 120 °C.
PRESSURE RATING	: 80 kg/cm <sup>2</sup>
FLOW DIRECTION	: BOTTOM TO TOP
END CONNECTION	: AS PER CUSTOMER'S REQUIREMENT
WETTED PART	: TO SUITABLE SPECIFIC LIQUID OR GASES
MOUNTING POSITION	: VERTICAL.
INDICATION	: DIGITAL FLOW RATE
TRANSMISSION	: 2WIRE LOOP POWERED
POWER SUPPLY	: 24 VDC
ENCLOSURE	: Exd IIB T4 IP67

## MAXIMUM FLOW AND PRESSURE LOSS

LINE SIZE NB	20°C WATER FLOW m <sup>3</sup> /hr	0°C1 atm AIR FLOW Nm <sup>3</sup> /hr	APPROX PRESSURE LOSS MM WC
15	0.2 - 1.2	6 - 35	200 - 225
20	0.4 - 2.0	8 - 60	220 - 230
25	1 - 5	30 - 150	200 - 270
40	2.5 - 10	70 - 300	200 - 250
50	3.5 - 17	100 - 500	225 - 280
65	6 - 30	200 - 900	225 - 240
80	10 - 45	300 - 1200	225 - 280
100	20 - 100	600 - 3000	350 - 850
125	30 - 120	900 - 4000	300 - 850
150	30 - 150	900 - 4500	350 - 950



SPINK CONTROLS