

METAL TUBE FLOW METER

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MODEL : HFR-981

DESCRIPTION

HFR Series : Metal tube variable area flowmeters
CMS Series consist of tapered metal tube and local indicator. They are designed to measure liquids and gases in high pressures and temperatures. You can choose the alarm and signal output as an option

FEATURES

- Simple construction and Economical price
- High pressure and temperature

OPTION

- Alarm (1 SPDT, 2SPDT)
- Signal output



Flow Chart

Size		Flow Rate	Flow Rate		Pressure Loss
		H ₂ O (m ³ /h)	LIQUID (m ³ /h)	GAS (Nm ³ /h)	mmH ₂ O
15A	1/2B	0,1 – 1	0,02 – 0,2	0,6 – 6	600
			0,2 – 2	3 – 30	
20A	3/4B	0,2 – 2,0	0,08 – 0,8	1,6 – 16	600
			0,35 – 3,5	5 – 50	
25A	1B	0,4 – 4,0	0,1 – 1	2 – 20	600
			0,6 – 6	9 – 90	
32A	1 1/4B	0,6 – 6,0	0,1 – 1	2 – 20	600
			1 – 10	15 – 150	
40A	1 1/2B	0,8 – 8,0	0,2 – 2	4 – 40	800
			1,5 – 15	20 – 200	
50A	2B	1,5 – 15	0,5 – 5	6 – 60	800
			2,5 – 25	40 – 400	
65A	2 1/2B	2,5 – 25	0,8 – 8	10 – 100	800
			4 – 40	60 – 600	
80A	3B	4,0 – 40	1,2 – 12	12 – 120	800
			5 – 50	80 – 800	
100A	4B	6,0 – 60	2,5 – 25	25 – 250	1,000
			9 – 90	120 – 1,200	
125A	5B	10 – 100	4 – 40	40 – 400	1,100
			15 – 150	200 – 2,000	
150A	6B	14 – 140	6 – 60	60 – 600	1,200
			20 – 200	300 – 3,000	
200A	8B	20 – 200	10 – 100	100 – 1,000	1,500
			28 – 280	400 – 4,000	

Specification

Measuring	Liquid, Gas
Meter Size	15A(1/2") ~ 200A(8")
Material	SUS 304 / SUS 316 / SUS 316L Other Materials on Request
Pressure Rating	10 kgf/cm ² (Standard) Option: 60 kgf/cm ²
Temperature	Operation: 0 ~ 120℃ Max: 300℃
Connection	Flange Connection (JIS / ANSI / DIN / Other) Screw Connection Clamp Connection
Accuracy	± 3.0% of F.S
Output	Alarm Contact: High or Low set point / 4 ~ 20mA / HART Communication
Power Supply	DC 24V (2 wire) — Loop

Material

Part List	Material		
Body	SUS 304	SUS 316	SUS 316L
Flange	SUS 304	SUS 316	SUS 316L
Float	SUS 304	SUS 316	SUS 316L
Stopper	SUS 304	SUS 316	SUS 316L
Magnet Rod	SUS 304 + ALNICO	SUS 316 + ALNICO	SUS 316L + ALNICO
Stopper	SUS 304	SUS 316	SUS 316L
Taper Tube	SUS 304	SUS 316	SUS 316L
Guid	SUS 304	SUS 316	SUS 316L
Cap	SUS 304		
Indicator	ALUMINUM		
Packing	NBR, VITON, PTFE		

ORDERING CODE

HFR																									
					☐ TYPE 1 LOCAL INDICATOR 2 LOCAL INDICATOR with ALARM (1-SPDT/ 2-SPDT) 3 LOCAL INDICATOR with SIGNAL (4-20mA) HART Communication(Optional)																				
					☐ CONNECTION J JIS 10K A ANSI 150# D DIN PN16 P SCREW :PT N SCREW :NPT C CLAMP O OTHERS																				
					☐ BODY MATERIAL A SUS 304 B SUS 316 C SUS 316L O OTHERS																				
					☐ METER SIZE <table border="0" style="margin-left: 20px;"> <tr> <td>15</td> <td>15A(1/2")</td> <td>50</td> <td>50A(2")</td> </tr> <tr> <td>20</td> <td>20A(3/4")</td> <td>65</td> <td>65A(2-1/2")</td> </tr> <tr> <td>25</td> <td>25A(1")</td> <td>80</td> <td>80A(3")</td> </tr> <tr> <td>32</td> <td>32A(1-1/4")</td> <td>100</td> <td>100A(4")</td> </tr> <tr> <td>40</td> <td>40A(1-1/2")</td> <td>O</td> <td>OTHERS</td> </tr> </table>	15	15A(1/2")	50	50A(2")	20	20A(3/4")	65	65A(2-1/2")	25	25A(1")	80	80A(3")	32	32A(1-1/4")	100	100A(4")	40	40A(1-1/2")	O	OTHERS
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					☐ FLOW DIRECTION 1 Bottom -> Top																				
					☐ METAL TUBE FLOW METR																				