

Metal Tube Variable Area Flowmeter

Model:IFLO-SH250 Series

FEATURES

- Mechanical display and LCD display.
- Robust and universal.
- The short-stroke design allows the measurement of high flow rate using a relative short metering tube.
- Special application is for hazardous, dangerous or aggressive fluid, for high temperature and high pressure rates.
- All stainless steel design provides a safe measurement of a variety of liquids, gases and steam.
- The measuring section can be equipped with a heating jacket.
- Standard rotameter is mounted in a vertical pipeline with flow direction upwards.



STANDARD SPECIFICATION

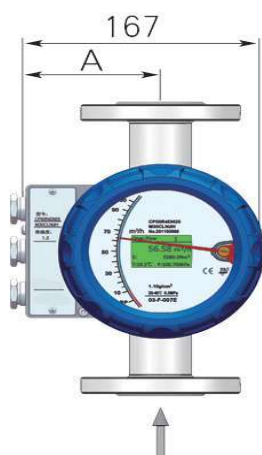
Accuracy	±1.5% of rate; ±2.5% of rate
Pressure	DN15-DN50≤4.0Mpa; DN65-DN200≤1.6Mpa
Pressure Loss	7kpa - 70kPa
Medium Temp.	SS304 (standard type) : -20°C...+120°C PTFE: -40°C...+70°C; PFA: -40°C...+120°C; High Temp.: +120°C...+450°C; Low Temp.: -80°C...-20°C
Viscosity	DN15: <5mPa.s; <30mPa.s DN25: <250mPa.s DN50- DN150: <300mPa.s
Ambient Temp.	Mechanical type: -40°C...+120°C Digital type: -40°C...+70°C; Explosion proof type: -40°C...+60°C
Electrical Interface	Electrical connection: 1/2" NPT; M20×1.5
Power Supply	Standard type(SS304): 24V DC (12V DC-32V DC); Two-wire system With alarm function type: 24V DC(18V DC-32V DC); Multi-wire system 220V AC (90V AC-242V AC) 50-60Hz; Multi-wire system Battery 3.6V@9AH Lithium battery
Protection	IP65; IP67(round type)
Explosion-proof	ExiaIICT1-5; ExdIIBT1-6(round type)

FLOW RANGE

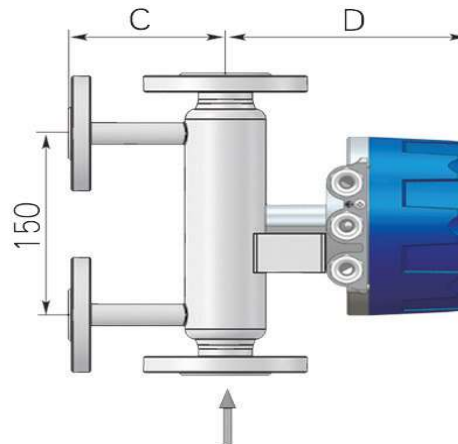
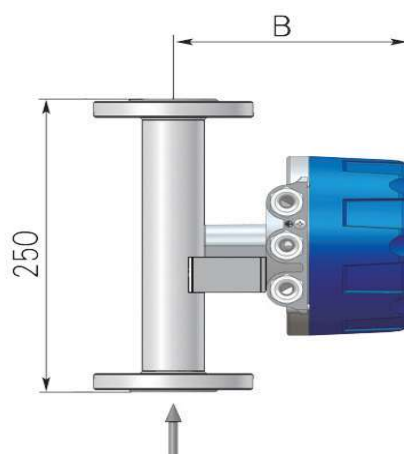
Medium / Pressure loss		Water				Air			Max. pressure loss	
DN	Flow	Standard type /	Accuracy	PTFE	Accuracy	Standard type /	PTFE	Accuracy	Standard type /	PTFE
		L/h		L/h		m³/h	m³/h		kPa	kPa
DN15 (DN20, DN25 flange optional)	S 15.0	10	4.0	16	4.0				6.23	6.8
	S 15.1	16		20	4.0	0.5			6.56	6.8
	S 15.2	25	2.5	25	2.5	0.7			6.9	6.8
	S 15.3	40	1.5	40	2.5	1.2			6.0	7
	S 15.4	63		60	2.5	1.8	1.4	2.5	6.7	7.2
	S 15.5	100		100	2.5	3	2.4		7.34	7.8
	S 15.6	160		160	2.5	4.8	3.8		8.19	9
	S 15.7	250		250	2.5	7	6		9.71	12
	S 15.8	400		400	2.5	12	9.6		9.6	13
	S 15.9	630				18			11.23	
	S 15.10	1000				30			11.13	
DN25 (DN32, DN40, DN50 flange optional)	S 25.0	300	2.5	400	2.5	14	9.6	4.0	4.75	3.8
	S 25.1	630	1.5	630	2.5	21	15	2.5	4.65	4.2
	S 25.2	1000		1000	2.5	30	24		7.12	5.7
	S 25.3	1600		1600	2.5	48	38		5.37	6
	S 25.4	2500		2000	2.5	70	47.5		7.67	7.8
	S 25.5	3200		2500	2.5	100	60		3.46	8.8
	S 25.6	4000		3600	4.0	130	85	4.0	4.2	10.3
	S 25.7	5000				150		2.5	8.6	
	S 25.8	6300				180			10.04	
	S 25.9	8000	2.5						10.9	
DN50 (DN65, DN80 flange optional)	S 50.0	4000	1.5	4000	2.5	130	95	2.5	1.96	4.7
	S 50.1	6300		6300	2.5	180	150		3.42	6
	S 50.2	10000		10000	2.5	300	240		5.92	6
	S 50.3	16000		14000	4.0	500	330		6.46	6.5
	S 50.4	20000	2.5			600			8.74	
	S 50.5	25000				700			13.3	
DN80	S 80.0	10000	1.5	16000	2.5	300		2.5	3.51	7
	S 80.1	16000		25000	2.5	500	590		2.71	13
	S 80.2	25000				700			6.9	
	S 80.3	40000				1200			8.45	
	S 80.4	63000	2.5						13.17	
DN100	S 100.0	40000	1.5	25000	2.5	1200	590	2.5	6.5	6.5
	S 100.1	63000		40000	2.5		950		6.5	13
	S 100.2	80000							20	
	S 100.3	100000	2.5			1800		2.5	22	
DN150	S 150.0	80000	1.5						22	
	S 150.1	100000	2.5						50	
	S 150.2	150000							60	
DN200	S 200.0	150000	2.5						50	
	S 200.1	200000	4.0						50	

➤ DIMENSIONS

Overall dimension and weight table of standard type and heat tracing jacket type							
Diameter	A	B		C	D	Standard	Jacket
		Standard	High temp.			Weight/kg	Weight/kg
DN15	133	139	179	100	139	3.6	6.4
DN20	133	139	179	110	139	4.1	6.9
DN25	121	139	179	110	139	5.5	10.4
DN32	121	139	179	120	139	6.1	10.9
DN40	121	139	179	120	158	6.6	11.1
DN50	106	158	179	120	158	9.6	12.4
DN65	106	158	179	140	158	10.1	12.9
DN80	93	158	179	140	158	13.35	20
DN100	83.5	179	234	150	179	16.9	21
DN125	83.5	179	234	185	234	17.9	22
DN150	64.5	234	234	185	234	33.6	35
DN200	29	234	234	210	234	48.6	50



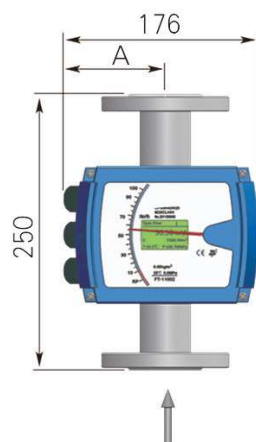
Standard type



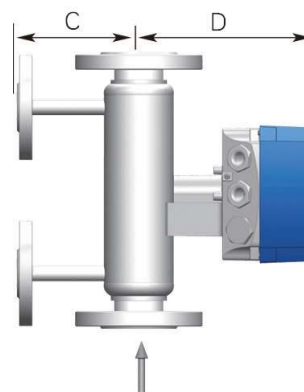
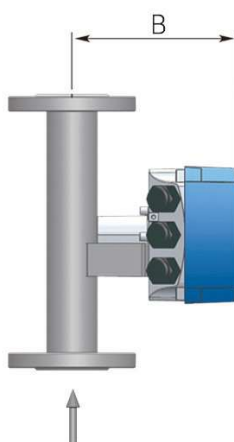
Heat tracing jacket

Overall dimension and weight table of standard type and heat tracing jacket type

Diameter	A	B		C	D	Standard	Jacket
		Standard	High temp.			Weight/kg	Weight/kg
DN15	115	138	178	100	138	3.6	6.4
DN20	115	138	178	110	138	4.1	6.9
DN25	103	138	178	110	138	5.5	10.4
DN32	103	138	178	120	138	6.1	10.9
DN40	103	138	178	120	157	6.6	11.1
DN50	88	157	178	120	157	9.6	12.4
DN65	88	157	178	140	157	10.1	12.9
DN80	75	157	178	140	157	13.35	20
DN100	65.5	178	233	150	178	16.9	21
DN125	65.5	178	233	185	233	17.9	22
DN150	46.5	233	233	185	233	33.6	35
DN200	11	233	233	210	233	48.6	50



Standard type



Heat tracing jacket

MODEL SELECTION GUIDE

Model	Suffix Code										Description
IFLO-SH250	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	Variable Area Flow Meter
Diameter	xxx										015: DN15 100: DN100 200: DN200
Converter Type	N										Mechanical Display; No Output
	A1										Mechanical Display; Pulse Output; 24V DC
	A2										Mechanical Display; 4-20mA Output; 24V DC
	B										LCD Display; No Output; Battery
	C										LCD Display; 24V DC; 4-20mA output, Two-wire system
	D										LCD Display; 4-20mA+Pulse Output; 24V DC power supply, Multi-wire system
	Notice:										RS485 and Hart are optional for C and D converter
Flow Range		XX									Refer to the Flow Range Table
Fluid			L								Liquid
			G								Gas
Material				S4							Body and Float: SS304
				S6							Body and Float: SS316
				SF							Body: SS304; Float and liner: PTFE
				SL							Body: 316L; Float: 316L
				XX							On request
Installation				V							Vertical Installation(from bottom to top)
				H							Horizontal Installation
				XX							On request
Structure					1						Standard Structure
					2						Jacket type (pressure level of the jacket part is 1.6MPa, special type is negotiable)
					3						Damping type (selected when measuring gas medium)
					4						High temp. type (medium temperature 120°C~450°C)
					5						Low temp. type (medium temperature -80°C~20°C)
					6						High pressure type (see the description of the technical parameters pressure level high pressure type)
Explosion Proof							NA				Safety Field without Ex-proof
							CT1				ExdIICT1-6(round type)
							CT2				ExiaIICT1-5
Connection								DXX			D16: DIN PN16 Flange; D25: DIN PN25 Flange...
								AXX			A15: ANSI 150# Flange; A30: ANSI 300# Flange...
								JXX			J10: JIS 10K Flange; J20: JIS 20K Flange...
								THR			Thread (Diameter ≤ DN100)
								TRC			Tri - clamp (Diameter ≤ DN100)
Communication									0		No Communication
									1		Modbus (Only for D converter type)
									2		Hart (Only for C converter type)
									X		On request

Accessories: Magnetic filter

Variable Area Flow Meter Selec on Guide **IFLO-SH250-50-N-S50-L-S4-V-1-NA-D16-0**

IFLO-SH250: Variable Area Flow Meter

50: DN50

N: Mechanical Display; No Output

S50: S50.1

L: Liquid

S4: Body and Float: SS304

V: Vertical Installation(from bottom to top)

1: Standard Structure

NA: Safety Field without Ex-proof

D16: DIN PN16 Flange

0: No Communication