TRI-CLAMP ELECTROMAGNETIC FLOWMETERS
CODE 0903-□□□□□□□□□□

CUSTOMIZABLE

- Built with stainless steel, this tri-clamp electromagneticflowmeter enables quick disassemble and cleaning, resists contamination and effectively prevents medium residue buildup in the measuring tube
- No moving flow resistance parts inside the measuring tube, no pressure loss
- Not affected by flow direction, accurate measurement is available in both forward and reverse directions
- Measures and displays instantaneous flow, flow velocity and totalized flow
- Flow accumulation function: forward total, reverse total, difference total
- Upper and lower flow limit alarm function
- Empty pipe alarm function



0903-A1B5C1D1E1F1G2H2J1K1

Code explanation:

0903-A□B□C□D□E□F□G□H□J□K□

- A: accuracy
- B: nominal diameter
- C: housing material
- D: liner material
- E: electrode material
- F: communication
- G: power supply
- H: transmitter
- J: structure
- K: protection grade

Code example:

0903-A1B5C1D1E1F1G2H2J1K1	**A1-**accuracy: ±0.5%
	B5-nominal diameter: DN40
	C1-housing material: SUS304
	D1-liner material: PFA
	E1-electrode material: SUS316L
	F1-communication: RS485
	G2-power supply: DC20V~36V
	H2-transmitter: round
	J1-structure: integrated
	K1-protection grade: IP65 transmitter+IP65 sensor

SPECIFICATION

Structure	integrated	separated (standard cable length 10m, customizable up to 100m)
Applicable medium	various electrically conductive fluids (conductivity of conventional liquids>5μS/cm, deionized water>20μS/cm)	
Accuracy	±0.5%, ±0.2% (optional)	
Nominal diameter	DN15~DN200	
Nominal pressure	1.6MPa	
Liner material	PFA, FEP (optional)	
Electrode material	SUS316L, hastelloy B, hastelloy C, titanium, tantalum, platinum-iridium (optional)	
Probe material	ABS, polyurethane (optional)	
Medium temperature	-20°C~60°C	-20°C~120°C
Housing material	SUS304, SUS316 (optional)	
Process connection	tri-clamp	
Velocity	0.5m/s~15m/s	
Signal output (volumetric flow)	current: 4~20mA (4-wire), pulse	
Communication	RS485, HART (optional)	
Display	128mm×128mm LCD display, 3-Line menu with 4 operation keys	
Protection grade	IP65 transmitter+IP65 sensor	IP65 transmitter+IP65 sensor IP65 transmitter+IP68 sensor IP68 transmitter+IP68 sensor (IP68 transmitter only uses 3.6V lithium battery) (optional)
Power supply	AC220V/50Hz, DC20V~36V, 3.6V battery (optional)	
Power	<20W	
Operation condition	temperature: -20°C~60°C, humidity: 5%RH~95%RH	

ACCURACY

A1	±0.5%
A2	±0.2%

NOMINAL DIAMETER

B1	DN15
B2	DN20
B3	DN25
B4	DN32
B5	DN40
B6	DN50
B7	DN65
B8	DN80
B9	DN100
B10	DN125
B11	DN150
B12	DN200

HOUSING MATERIAL

C1	SUS304
C2	SUS316

LINER MATERIAL

D1	PFA
D2	FEP

ELECTRODE MATERIAL

E1	SUS316L
E2	hastelloy B
E3	hastelloy C
E4	titanium
E5	tantalum
E6	platinum-iridium

COMMUNICATION

F1	RS485
F2	HART

POWER SUPPLY

G1	AC220V/50Hz
G2	DC20V~36V
G3	3.6V battery

TRANSMITTER

H1	square
H2	round

STRUCTURE

J1	integrated
J2	separated

PROTECTION GRADE

K1	IP65 transmitter+IP65 sensor
K2	IP65 transmitter+IP68 sensor
K3	IP68 transmitter+IP68 sensor

LINER MATERIAL SELECTION

Material	Main performance	Scope of application
PFA	1. good hydrophobicity, non-stick and high temperature resistance 2. excellent corrosion resistance; capable of withstanding strong acids, strong alkalis, organic solvents and various salt solutions 3. good negative pressure resistance; internal metal mesh optional for higher negative pressure requirements 4. poor wear resistance	1. suitable for non-severe abrasion media
FEP	1. hydrophobic and non-stick performance 2. corrosion resistance ranks only below PFA 3. good negative pressure resistance. for high negative pressure working conditions, internal metal mesh reinforcement can be adopted to improve negative pressure endurance 4. poor wear resistance	1. suitable for non-severe abrasion media

ELECTRODE MATERIAL SELECTION

SUS316L	applicable to industrial/municipal water, wastewater and low-corrosive media
Hastelloy B	strong resistance to hydrochloric acid below the boiling point; it also resists oxidizing acids, alkalis, and non-oxidizing salts, for example, sulfuric acid, phosphoric acid, hydrofluoric acid, and organic acids
Hastelloy C	exceptional resistance to strong solutions of oxidizing salts and acids, for example, Fe^{3+}, Cu^{2+}, nitric acid, mixed acids
Titanium	titanium can withstand corrosive mediums such as seawater, chloride salt solutions, hypochlorite salts, oxidable acids (including fuming nitric acid), organic acids, and alkali. not resistant to high-purity reducing acids, such as sulfuric acid, hydrochloric acid
Platinum-iridium	resistant to nearly all chemical media; not applicable to aqua regia, ammonium salts, and certain halogen-containing solutions
Tantalum	highly resistant to corrosive mediums; applicable to most chemical media except hydrofluoric acid, oleum and alkalis

FLOW RANGE

Velocity (m/s) / Flow(m^3/h) / Size(mm)	0.5	1	4	10	12	15
15	0.318	0.636	2.543	6.359	7.63	9.538
20	0.565	1.13	4.522	11.304	13.56	16.956
25	0.883	1.766	7.065	17.663	21.2	26.494
32	1.447	2.894	11.575	28.938	34.73	43.407
40	2.261	4.522	18.086	45.216	54.26	67.824
50	3.533	7.065	28.26	70.65	84.78	105.98
65	5.97	11.94	47.76	119.4	143.3	179.1
80	9.04	18.09	72.35	180.86	217	271.3
100	14.13	28.26	113.04	282.6	339.1	423.9
125	22.08	44.16	176.63	441.56	529.9	662.34
150	31.79	63.59	254.34	635.85	763	953.78
200	56.52	113.04	452.16	1130.4	1356	1696