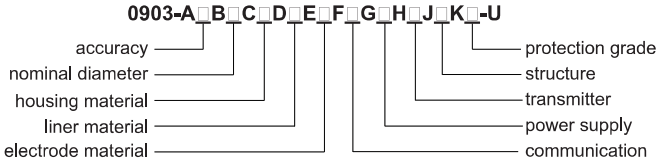
TRI-CLAMP ELECTROMAGNETIC FLOWMETERS
PART NO. 0903-□□□□□□□□□□-U

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-A1B6C1D1E1F1G2H2J1K1-U

Part No. explanation:



Part No. example:

0903-A1B6C1D1E1F1G2H2J1K1-U	**A1-**accuracy: ±0.5%
	B6-nominal diameter: 2"
	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 32.8ft, customizable up to 328ft)
Applicable medium	various electrically conductive fluids (conductivity of conventional liquids>5μS/cm, deionized water>20μS/cm)	
Accuracy	±0.5%, ±0.2% (optional)	
Nominal diameter	½" ~ 8"	
Nominal pressure	232psig	
Liner material	PFA, FEP (optional)	
Electrode material	SUS316L, hastelloy B, hastelloy C, titanium, tantalum, platinum-iridium (optional)	
Probe material	ABS, polyurethane (optional)	
Medium temperature	-4°F~140°F	-4°F~248°F
Housing material	SUS304, SUS316 (optional)	
Process connection	tri-clamp	
Velocity	1.64ft/s~49.2ft/s	
Signal output (volumetric flow)	current: 4mA~20mA (active output), pulse (passive output)	
Communication	RS485, HART (optional)	
Display	5.04"×5.04" 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	AC110V/60Hz, DC20V~36V, 3.6V battery (optional)	
Power	<20W	
Operation condition	temperature: -4°F~140°F, humidity: 5%RH~95%RH	

ACCURACY

A1	±0.5%
A2	±0.2%

NOMINAL DIAMETER

B1	½"
B2	¾"
B3	1"
B4	1¼"
B5	1½"
B6	2"
B7	2½"
B8	3"
B9	4"
B10	5"
B11	6"
B12	8"

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	AC110V/60Hz
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 (ft/s) / Flow(GPM) / Size(in/mm)	1.6	3.3	13.1	32.8	39.4	49.2
½" (15 mm)	1.4	2.8	11.2	28.0	33.6	42.1
¾" (20 mm)	2.5	5.0	19.9	49.8	59.7	74.7
1" (25 mm)	3.9	7.8	31.1	77.8	93.3	117
1¼" (32 mm)	6.4	12.7	51.0	127	153	191
1½" (40 mm)	9.9	19.9	80	199	239	301
2" (50 mm)	15.6	31.1	126	311	373	467
2½" (65 mm)	26.3	52.6	209	522	631	789
3" (80 mm)	39.8	80	319	796	955	1195
4" (100 mm)	62.3	125	500	1250	1492	1867
5" (125 mm)	97.2	196	777	1945	2332	2917
6" (150 mm)	140	280	1121	2801	3360	4198
8" (200 mm)	249	498	1993	4979	5972	7467