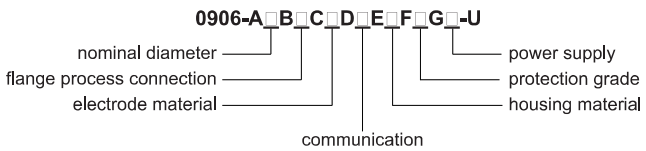
PARTIALLY FILLED PIPE ELECTROMAGNETIC FLOWMETERS
PART NO. 0906-□□□□□□□-U

CUSTOMIZABLE

- Capable of measuring liquid volume flow from 10% to 100% pipe liquid level, suitable for metering occasions such as municipal rainwater, wastewater, sewage discharge and irrigation water pipelines
- No moving parts or flow resistance inside the measuring tube, no pressure loss
- The measurement accuracy is unaffected by changes in physical parameters of the measured medium, such as temperature, pressure, density, viscosity and conductivity
- Unaffected by fluid flow direction, it can measure accurately 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

0906-A1B3C2D1E1F1G1-U

Part No. explanation:



Part No. example:

0906-A1B3C2D1E1F1G1-U	**A1-**nominal diameter: 8"
	B3-flange process connection: ANSI 150#
	C2-electrode material: hastelloy B
	D1-communication: RS485
	E1-housing material: carbon steel
	F1-protection grade: IP65 transmitter+IP65 sensor
	G1-power supply: AC110V/60Hz

STANDARD DELIVERY

Main unit	1 pc
Grounding electrode	1 pc

OPTIONAL ACCESSORY

Matching flanges and fasteners	0906-MF01

SPECIFICATION

Structure	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	±2.5%
Nominal diameter	8"~40"
Nominal pressure	ANSI 150# DIN PN6/PN10/PN16 JSI 10K (optional, other pressures are customizable)
Liner material	neoprene
Electrode material	SUS316L, hastelloy B, hastelloy C, titanium, tantalum, platinum-iridium, stainless steel coated with tungsten carbide (optional)
Medium temperature	14°F~176°F
Velocity	1.64ft/s~49.2ft/s
Signal output (volumetric flow)	current: 4mA~20mA (active output), frequency: 1Hz~5000Hz, pulse (passive output)
Communication	RS485, HART (optional)
Display	5.04"×5.04" LCD display, 3-Line menu with 4 operation keys
Connection type	flange
Housing material	carbon steel, SUS304, SUS316 (optional)
Protection grade	IP65 transmitter+IP65 sensor IP65 transmitter+IP68 sensor(optional)
Power supply	AC110V/60Hz, DC20V~36V (optional)
Power	<20W
Operation condition	temperature: -4°F~140°F, humidity: 5%RH~95%RH

NOMINAL DIAMETER

A1	8"
A2	10"
A3	12"
A4	14"
A5	16"
A6	18"
A7	20"
A8	24"
A9	28"
A10	32"
A11	36"
A12	40"

ELECTRODE MATERIAL

C1	SUS316L
C2	hastelloy B
C3	hastelloy C
C4	titanium
C5	platinum-iridium
C6	tantalum
C7	stainless steel coated tungsten carbide

PROTECTION GRADE

F1	IP65 transmitter+IP65 sensor
F2	IP65 transmitter+IP68 sensor

POWER SUPPLY

G1	AC110V/60Hz
G2	DC20V~36V

COMMUNICATION

D1	RS485
D2	HART

NOMINAL PRESSURE

B1	ANSI 150#
B2	DIN PN6
B3	DIN PN10
B4	DIN PN16
B5	JSI 10K

HOUSING MATERIAL

E1	carbon steel
E2	SUS304
E3	SUS316

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
Stainless steel coated tungsten carbide	applicable for non-corrosive and highly abrasive media

FLOW RANGE

Velocity (ft/s) / Flow(GPM) / Size(in/mm)	1.6	3.3	13.1	32.8	39.4	49.2
8" (200 mm)	249	498	1993	4979	5972	7467
10" (250 mm)	389	777	3110	7772	9334	11685
12" (300 mm)	560	1119	4501	11197	13438	16788
14" (350 mm)	762	1526	6096	15249	18276	22866
16" (400 mm)	996	1990	7961	19901	23900	30038
18" (450 mm)	1259	2519	10073	25180	30238	37789
20" (500 mm)	1556	3113	12500	31127	37368	46661
24" (600 mm)	2240	4478	17909	44776	53954	67343
28" (700 mm)	3048	6096	24492	60952	73194	91222
32" (800 mm)	3982	7963	31905	79632	95572	119484
36" (900 mm)	5041	10080	40310	100799	121171	151369
40" (1000 mm)	6228	12500	49977	124995	149244	186603