PARTIALLY FILLED PIPE ELECTROMAGNETIC FLOWMETERS
CODE 0906-□□□□□□□□

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-A1B3C2D1E1F1G1H1

Code explanation:

0906-A□B□C□D□E□F□G□H□

- A: nominal diameter
- B: flange process connection
- C: electrode material
- D: communication
- E: housing material
- F: protection grade
- G: power supply
- H: matching flanges and fasteners

Code example:

0906-A1B3C2D1E1F1G1H1	**A1-**nominal diameter: DN200
	B3-flange process connection: DIN PN16
	C2-electrode material: hastelloy B
	D1-communication: RS485
	E1-housing material: carbon steel
	F1-protection grade: IP65 transmitter+IP65 sensor
	G1-power supply: AC220V/50Hz
	H1-matching flanges and fasteners: not required

STANDARD DELIVERY

Main unit	1 pc
Grounding electrode	1 pc

SPECIFICATION

Structure	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	±2.5%
Nominal diameter	DN200~DN1000
Nominal pressure	DIN PN6/PN10/PN16 ANSI 150# 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	-10°C~80°C
Velocity	0.5m/s~15m/s
Signal output (volumetric flow)	current: 4~20mA (4-wire), frequency: 1~5000Hz, pulse
Communication	RS485, HART (optional)
Display	128mm×128mm 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	AC220V/50Hz, DC20V~36V (optional)
Power	<20W
Operation condition	temperature: -20°C~60°C, humidity: 5%RH~95%RH

NOMINAL DIAMETER

A1	DN200
A2	DN250
A3	DN300
A4	DN350
A5	DN400
A6	DN450
A7	DN500
A8	DN600
A9	DN700
A10	DN800
A11	DN900
A12	DN1000

NOMINAL PRESSURE

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

ELECTRODE MATERIAL

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

COMMUNICATION

D1	RS485
D2	HART

HOUSING MATERIAL

E1	carbon steel
E2	SUS304
E3	SUS316

PROTECTION GRADE

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

POWER SUPPLY

G1	AC220V/50Hz
G2	DC20V~36V

MATCHING FLANGES AND FASTENERS

H1	not required
H2	required

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 (m/s) / Flow(m^3/h) / Size(mm)	0.5	1	4	10	12	15
200	56.52	113.04	452.16	1130.4	1356	1696
250	88.31	176.53	706.5	1766.25	2120	2649
300	127.2	254.34	1017	2543.4	3052	3815
350	173.1	346.19	1385	3461.85	4154	5193
400	226.1	452	1809	4522	5426	6782
450	286.1	572	2289	5723	6867	8584
500	353.3	707	2826	7065	8478	10598
600	508.7	1017	4069	10174	12208	15260
700	692.4	1385	5539	13847	16617	20771
800	904.3	1809	7235	18086	21704	27130
900	1145	2289	9156	22891	27469	34336
1000	1413	2826	11304	28260	33912	42390