



Measuring Medium

Water, acid, alkali, seawater and other strong corrosive or conductive liquids containing impurities.

Widely used in petrochemical, iron and steel metallurgy, water supply and drainage, irrigation, water treatment, environmental protection sewage measurement and control, paper making, medicine, food and other industrial and agricultural production process flow measurement and control.

Main Features

- ◆ Small pressure loss, high precision, good stability, two-way measurement, (electromagnetic calorimeter) cold and heat measurement function.
- ◆ Measurements are not affected by fluid density, viscosity, temperature, pressure and conductivity.
- ◆ Output communication: 4-20mA, pulse, RS485-MODBUS, RS232, Hart, GPRS, Profibus optional.
- ◆ The LCD backlight converter can be easily displayed and read in the sun or in a dark room.
- ◆ Bidirectional measurement system, built-in three totalizers: positive total flow, reverse total flow and total difference flow.
- ◆ The converter has self-diagnosis alarm output, no-load detection alarm output, flow upper and lower limit alarm, batch control (need to be customized) and other alarm output functions.
- ◆ Nominal pressure: 0.6MPa-42MPa.
- ◆ Protection class: IP65/IP68 submersible.

FLOW RANGE SHEET

Magnetic m3/h

DN6	0.05-0.5	DN450	286-2860
DN10	0.14-1.4	DN500	350-3500
DN15	0.3-3	DN600	510-5100
DN20	0.57-5.7	DN700	700-7000
DN25	0.88-8.8	DN800	900-9000
DN32	1.4-14	DN900	1140-11400
DN40	2.2-22	DN1000	1400-14000
DN50	3.5-35	DN1200	2030-20300
DN65	6-60	DN1400	2770-27700
DN80	9-90	DN1600	3600-36000
DN100	14-140	DN1800	4580-45800
DN125	22-220	DN2000	5650-56500
DN150	32-320	DN2200	6840-68400
DN200	57-570	DN2400	8140-81400
DN250	88-880	DN2600	9550-95500
DN300	130-1300	DN2800	11078-110780
DN350	170-1700	DN3000	12717-127170
DN400	226-2260		

Item	Parameters
Nominal diameter	DN6-3000mm
Power supply	24VDC, 220VAC, 3.6V battery powered (803E)
Electrode	SS316L, HB, HC, Ti, Ta, Pt, WC
Liner	CR (<60°C), PU (<80°C), PTFE (<120°C), F46 (<180°C), FPM (<180°C)
Rated pressure	0.6-4.0Mpa (high pressure customizable)
Connection type	thread connection (DN4-50mm) tri-clamp connection (DN4-100mm) Flange type (DN10-3000mm)
Structure	Integrated type, Remote type, Insertion type
Protection level	IP65/IP68
Remote type cable	10m (standard configuration)
Output communication	Pulse, 4-20mA, RS485 MODBUS (Standard configuration) Hart, GPRS, Profibus (Optional)
Explosion proof	Exd ia [ia Ga] qII CT6 Gb

► MAIN PERFORMANCES OF THE ELECTRODE MATERIALS

Electrode Material	Application
SUS316L	Industrial/municipal water, wastewater and low corrosive mediums.
Tungsten carbide	Non-corrosive, strong wear mediums. Such as: mud, pulp and so on.
Hastelloy B	Strong resistance to hydrochloric acids below the boiling point. Resist against oxidable acids, alkali and non-oxidable salts. For instance, vitriol, phosphate, hydrofluoric acids, and organic acids.
Hastelloy C	Exceptional resistance to strong solutions of oxidizing salts and acids. For example, Fe ⁺⁺⁺ , Cu ⁺⁺ , Nitric acids, mixed acids
Titanium	Titanium can withstand corrosive mediums such as seawater, chloride salt solutions, hypochlorite salts, oxidable acids (including fuming nitric acids), organic acids, and alkali.
Tantalum	Highly resistant to corrosive mediums. Applicable to all chemical mediums except Hydrofluoric Acids, Oleum and Alkali.
Platinum-iridium	Applicable to all chemical mediums except for Ammonium salts and Fortis.

► MAIN PERFORMANCES OF THE LINER MATERIALS

Lining Material	Main conditional	Scope of application
CR	1. Good abrasion resistance 2. Resistant to the corrosion of general low-concentration acid alkali, and salt media.	1. ≤60°C 2. Water, sewage
PU	1. Excellent wear resistance 2. Poor acid and alkali resistance	1. ≤80°C 2. Slurry
PTFE	1. Hydrochloric acid, sulfuric acid, nitric acid. 2. Alkali and organic solvents	1. ≤120°C 2. Corrosive medium, concentrated acid and base 3. Sanitary media
F46	1. Same abrasion resistance with PTFE 2. Having strong resistance to load pressure	1. ≤180°C 2. Corrosive acid, alkali and salt 3. Resistance to high pressure and negative pressure
FPM	1. Excellent elasticity, high breaking force, good abrasion-resistance 2. High-temperature non-corrosive medium	1. ≤180°C hot water
PFA	1. Chemical equal to PTFE 2. Compressive tensile strength is good than F46	1. ≤180°C 2. Corrosive acid-base salt

► SELECTION TABLE



www.arshiatamin.com

info@arshiatamin.com

+98-21-66572717

+98-998-1201514

BTLD		XXX	X	X	X	X	X	X	X	X	X	X
Nominal diameter (mm)	Nominal Diameter Coding											
Design pressure	1.6Mpa	1										
	2.5Mpa	2										
	4.0Mpa	3										
	others	4										
Connection	flange	1										
	tri-clamp	2										
	thread	3										
	wafer	4										
	plug-in	5										
Liner material	CR		A									
	PTFE		B									
	PU		C									
	F46		D									
	FPM		E									
	PFA		F									
Electrode material	316L		1									
	hastelloyB (HB)		2									
	hastelloyC (HC)		3									
	titanium (Ti)		4									
	tantalum (Ta)		5									
	tungsten carbide (WC)		6									
	platinum-iridium alloy (Pt)		7									
Signal Output	Pluse			N								
	4-20mA			A								
	RS485			B								
	HART			C								
Power supply	220VAC				1							
	24VDC				2							
	12VDC				3							
	3.6V				4							
Structure	Compact type					C						
	Remote type					R						
	Remote type (Soaking water)					X						
Material	carbon steel						1					
	SS304						2					
	SS316L						3					
Converter	Round							H				
	Square							R				

Nominal Diameter Coding Table	
Nominal diameter	Coding
15	015
20	020
25	025
32	032
40	040
50	050
65	065
80	080
100	110
125	112
150	115
200	120
250	125
300	130
400	140
450	145
500	150
600	160
700	170
800	180
900	190
1000	210
1200	212
1400	214
1500	215
1600	216
1800	218
2000	220
2200	222
2400	224
2600	226
2800	228
3000	330