

ELECTROMAGNETIC FLOWMETER

MWDC-LDG SERIES



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1. PRODUCT DESCRIPTION

The intelligent electromagnetic flowmeter is a precision instrument that comprises two essential components, namely the sensor and the converter. It operates on the principles of Faraday's law of electromagnetic induction and is designed to measure the volume flow of conductive liquids. This instrument is capable of measuring the volume flow rate of strong corrosive liquids such as acids and alkalis, as well as uniform liquid-solid two-phase suspended liquids like slurry and pulp. It is a versatile device that finds wide-ranging applications in several industrial sectors, including petroleum, chemical, metallurgy, textile, paper, environmental protection, and food. Its utility extends to municipal management, water conservancy construction, river dredging, and other areas of flow measurement. In view of its precision and versatility, the intelligent electromagnetic flowmeter is a valuable tool for businesses and organizations seeking to optimize their processes and ensure the accuracy of their flow measurements.

2. WORKING PRINCIPAL

The electromagnetic flowmeter uses Faraday's Law of electromagnetic induction to measure the process flow. When an electrically conductive fluid flows in the pipe, an electrode voltage E is induced between a pair of electrodes placed at right angles to the direction of magnetic field.

The electrode voltage E is directly proportional to the average fluid velocity V.

The sensor is designed to perceive induced electrode voltage E as an indication of flow and relay this signal to the converter. Upon receipt, the converter amplifies the signal, converts it into a digital format, and filters it to eliminate noise. The resulting data is processed digitally and displayed on a backlit dot-matrix LCD screen as instantaneous flow and cumulative flow. Furthermore, the converter boasts a 4-20mA output, an alarm output, and a frequency output. In addition, it is equipped with communication interfaces such as RS-485 and supports the HART and MODBUS protocols.

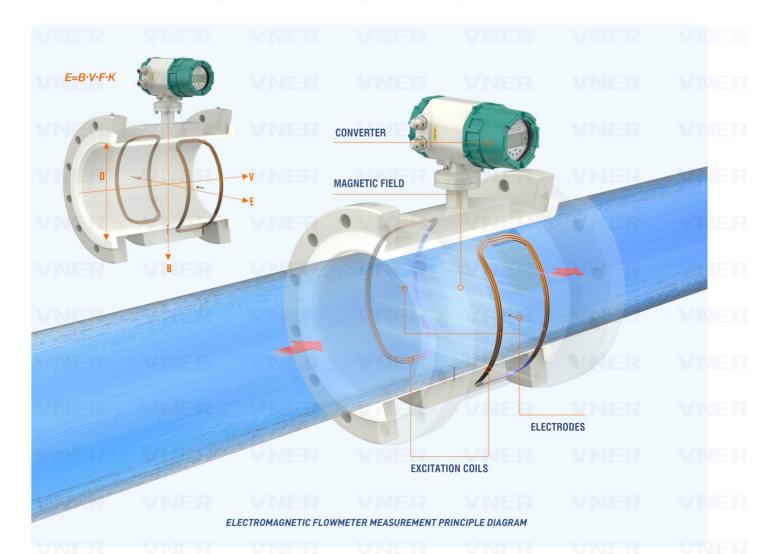
E=B•V•F•K

E - Induced Electrode Voltage

e B - Magnetic Flux Density

K - Coefficients related to magnetic field distribution and axial length) V - Velocity

D - Inner Width Between Electrodes





3. PRODUCT FEATURES

- · Accurate and reliable measurement unaffected by changes in fluid density, viscosity, temperature, pressure, and conductivity.
- · Highly adaptable to slurry measurement with no flow blocking parts, no pressure loss, and reduced straight pipe section requirements.
- Excellent corrosion and wear resistance with reasonably selected electrodes and lining materials.
- Full digital volume processing, strong anti-interference ability, and high precision.
- Efficient and reliable Ultra-low EMI switching power supply.
- Fast operation speed with a 16-bit embedded microprocessor, low power consumption, and high circuit reliability with SMD devices and SMT technology.
- Accurate readings with no moving parts in the pipeline and no additional pressure loss in the measurement.
- · Adaptable to different scenarios with online range modification.
- . Convenient and user-friendly with a high-definition backlit LCD display, full Chinese menu operation, and various digital communication signal output options.
- It comes with RS485, RS232, Hart, and Modbus Profibus-DP digital communication signal output (optional).
- Troubleshooting and diagnosis made easy with a self-test and self-diagnosis function (optional).
- Efficient with hourly total recording function and internal power-down clock that can record 16 times the power-down time (optional).
- Highly convenient and user-friendly with an infrared handheld operator, 115KHZ communication rate and remote non-contact operation of all functions of the converter (optional).

4. TECHNICAL PARAMETERS

	TECHNICAL PARAMETERS			WATER THE				
Standard of Implementation	Electromagnetic Flowmeter (JB / T9248-1999)							
Nominal Diameter (Special specifications can be customized)	PTFE lining DN10 ~ DN600							
	Rubber Lining DN65 ~ DN2000							
Flow Direction	Bidirectional							
Rangeability	20:1							
Repeatability	± 0.1%							
Measurement Accuracy	± 0.5% , ± 1%							
	Standard Rubber lining: -20 ~ 60°C							
Process Temperature	High-temperature rubber lining: -20 ~ 90°C							
Process reiniperature	Standard PTFE Lining: -30 ~ 120 °C							
	High-temperature PTFE lining: -20 ~ 160°C							
lominal Pressure	DN 10 ~ DN 50 ≤ 4.0 MPa							
	DN 65 ~ DN300 ≤ 1.6 MPa							
(Special specifications can be customized)	DN350 ~ DN600 ≤ 1.0 MPa							
	DN700 ~ DN 2000 ≤ 0.6 MPa							
Flow Rate Range	0.5 ~ 10 m/s							
Conductivity Range	Measured Liquid Conductivity ≥ 5µs/cm							
Signal Output	4 - 20mA, Pulse/Frequency, Control Level							
Communication Protocols	RS485, Modbus, HART, Profibus - DP							
Power Supply	220VAC, Tolerance 15% or 24 VDC, Ripple ≤ 5%							
Straight Pipeline Requirement	Upstream ≥5DN , Downstream ≥ 2DN							
Connection Spec	Flange (GB / T9113.1 2000)							
Explosion-Proof Rating	Exdb ib q II C T6 Gb							
Ingress Protection Rating	IP65 , IP68 available upon request							
Ambient Temperature	-20 ~ 60°C							
Ambient Humidity	5% ~ 95%							
Total Power Consumption	less than 20W							



5. ELECTROMAGNETIC FLOW METER ORDERING INFORMATION

5.1 INSTRUMENT SELECTION

BASE MODEL: MWDC-LDG					
Nominal Diameter:					
10-2000mm					
Transmitter Type:	w Rue is	VIVELS	FINE X	VIVLEX	VIVIE
Integral Model	S				
Split Model	WNIEL	WILE	ANIER	VALE	VNE
Electrode Material:					
Stainless Steel 316L	M	1			
Titanium	VNEK 1		7 NIE K	VINER	Winds I
Tantalum	0	ı			
Hastelloy B	VNER H	b //////=/R	//NIER	VANIER	WANTE
Hastelloy C	Н	С			
Platinum	P				
Tungsten carbide	V	,			Walter Li
Signal Output:					
Without		0 =	MNIER	V/N/E R	WNEF
Pulse		1			
Analog		2			
Lining Material:			/ NIE X	V INC.	VIVE
Neoprene Rubber		С			
Polyurethane Rubber		VNER U	VINIER	WATER.	VNE
Polytetrafluoroethylene (PTFE)		F			
Teflon		E			
Tetrafluoroethylene-Perfluoro Alkoxy Vinyl Ether		P		VANIER	VINE
Power Supplly:					
220VAC			V/IoIE R	VNIER	VNE
24VDC			1		
Communication Protocol:					. /
Without			0	VIVIER	V NE
RS485			1		
RS232			WNEK 2	VINIER	WNEF
Modbus			3		
Hart			4		
Grounding Device:				WAVE R	VINE
Without				0	
Grounding Ring				V/IVIE K	VANE
Grounding Electrode				2	
Pressure Rating:	37311-11	N. / D. I		i	
1.6MPa				P1	VNE
1.0MPa				P2	
0.6MPa				P3	VNE
Customization Available				P-(n)	
Explosion-Proof:	* **	3.75.7	* **	2 62 15 15	N W D
Without					N
Exd[ib]qII CT6 Gb					E



5.2 REFERENCE TABLE

Please refer to the table to determine the flow meter diameter.

	VELOCITY (M/S)										
	0.5	1	2	3	4	5	6	7	8	9	10
DIAMETER (MM)	TANKE		WINE		FLO	OW RATE (M³,	/H)		1760		Turbe.
10	0.14	0.28	0.57	0.85	1.1	1.4	1.7	2.0	2.3	2.5	2.8
15	0.32	0.64	1.3	1.9	2.5	3.2	3.8	4.5	5.1	5.7	6.3
20	0.57	1.1	2.3	3.4	4.5	5.7	6.8	7.9	9.0	10	11
25	0.88	1.8	3.5	5.3	7.1	8.8	11	12	14	16	17.6
32	1.4	2.9	5.8	8.7	12	14	17	20	23	26	28.9
40	2.3	4.5	9.0	14	18	23	27	32	36	41	45.2
50	3.5	7.1	14	21	28	35	42	49	57	64	70
65	6.0	12	24	36	48	60	72	84	96	107	119
80	9.0	18	36	54	72	90	109	127	145	163	180
100	14	28	57	85	113	141	170	198	226	254	282
125	22	44	88	132	177	221	265	309	353	397	441
150	32	64	127	191	254	318	382	445	509	572	636
200	57	113	226	339	452	565	678	791	904	1017	1131
250	88	177	353	530	707	883	1060	1236	1413	1590	1767
300	127	254	509	763	1017	1272	1526	1780	2035	2289	2545
350	173	346	692	1039	1385	1731	2077	2423	2769	3116	3464
400	226	452	904	1356	1809	2261	2713	3165	3617	4069	4523
450	286	572	1145	1717	2289	2861	3434	4006	4578	5150	5725
500	353	707	1413	2120	2826	3533	4239	4946	5652	6359	7069
600	509	1017	2035	3052	4069	5087	6104	7122	8139	9156	10180
700	692	1385	2769	4154	5539	6924	8308	9693	11078	12463	13847
800	904	1809	3617	5426	7235	9043	10852	12660	14469	16278	18086
900	1145	2289	4578	6867	9156	11445	13734	16023	18312	20602	22891
1000	1413	2826	5652	8478	11304	14130	16956	19782	22608	25434	28260
1200	2035	4069	8139	12208	16278	20347	24417	28486	32556	36625	40694
1400	2769	5539	11078	16617	22156	27695	33234	38773	44312	49851	55390
1600	3617	7235	14469	21704	28938	36173	43407	50642	57876	65111	72346
1800	4578	9156	18312	27469	36625	45781	54937	64094	73250	82406	91562
2000	5652	11304	22608	33912	45216	56520	67824	79128	90432	101736	113040



5.3 SELECTION OF LINING MATERIALS

LINING MATERIAL	LINING MATERIAL	SYMBOL	CHARACTERISTICS	MAX.PROCESS TEMPERATURE	APPLICABLE LIQUIDS	APPLICABLE SIZES
Rubber	Chloroprene Rubber	CR	Medium abrasion resistance, resistant to low concentrations of acids and alkaline salts in general	< 60 °C	Tap water, Industrial water, Seawater	DN50 ~ DN2000
W/MIEE	Polyurethane Rubber	PU	Excellent abrasion resistance, poor resistance to acids and alkalis	< 60 °C	Pulp, mineral slurry and other slurries	DN25 ~ DN500
	Polytetrafluoroethylene	F4 (PTFE)	Chemically very stable, resistant to boiling hydrochloric acid, sulphuric acid, aqua regia, concentrated alkalis	< 160 °C	Extremely Corrosive acid, alkali and salt liquids	DN25 ~ DN1600
Fluoroplastic	Polytetrafluoroethylene Propylene (Teflon FEP)	F46 (FEP)	Chemical properties equal to F4 compressive, tensile strength superior to F4	< 120 °C	Corrosive acid, alkali and salt liquids	DN10 ~ DN200
	Copolymer of Tetrafluoroethylene and Perfluoroalkyl Vinyl Ether	PFA	Chemical properties equal to F46, compressive and tensile strength superior to F46	< 180 °C	Corrosive acid, alkali and salt liquids	DN10 ~ DN300

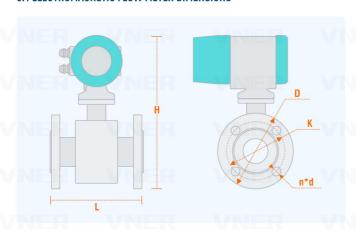
5.4 SELECTION OF ELETRODE AND GROUNDING RING MATERIALS

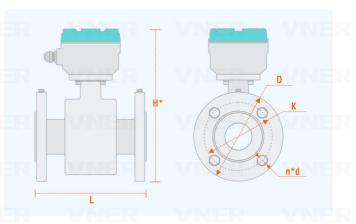
MATERIAL	CORROSION RESISTANCE	
Stainless Steel 316L	Applicable: 1. Domestic water, industrial water, raw water, well water, urban wastewater 2. Weak corrosive acid, alkali, salt solution	
Hastelloy B	Applicable: 1. Hydrochloric acid (concentration less than 10%) and other non-oxidising acids 2. Sodium hydroxide (concentration less than 50%), all concentrations of sodium hydroxide alkaline solution 3. Phosphoric acid, organic acids Not applicable: Nitric acid	
lastelloy C	Applicable: 1. Mixed acid and mixed solution of chromic acid and sulphuric acid 2. Oxidising salts such as Fe+++, Cu++, seawater 3. Phosphoric acid, organic acids Not applicable: Hydrochloric acid	
itanium (Ti)	Applicable: 1. Salts, e.g.: (1) Chloride (chloride/magnesium/aluminium/calcium/ammonium/iron, etc.) (2) sodium salt, potassium salt, ammonium salt, hypoaluminate, seawater 2. Concentration less than 50% potassium hydroxide, ammonium hydroxide, barium hydroxide alkaline solution Not applicable: hydrochloric acid, sulfuric acid, phosphoric acid, hydrofluoric acid and other reducing acids	
Fantalum (Ta)	Applicable: 1. Hydrochloric acid (concentration less than 40%), dilute sulfuric acid and concentrated sulfuric acid (excluding fuming sulfuric acid) 2. Chlorine dioxide, iron oxide, hypochlorite, sodium cyanide, acetic acid, etc. 3. Nitric acid (including fuming nitric acid) and other oxidising acids, aqua regia at a temperature of less than 80 °C	
Platinum (Pt)	Applicable: Almost all acids, bases, salt solutions (including fuming sulfuric acid, fuming nitric acid) Not applicable: Aqua regia, ammonium salt	
Tungsten Carbide	Applicable: Pulp, sewage, resistant to solid particle interference Not applicable: Inorganic acids, organic acids, chlorides	



6. INSTALLATION DIMENSIONS

6.1 ELECTROMAGNETIC FLOW METER DIMENSIONS





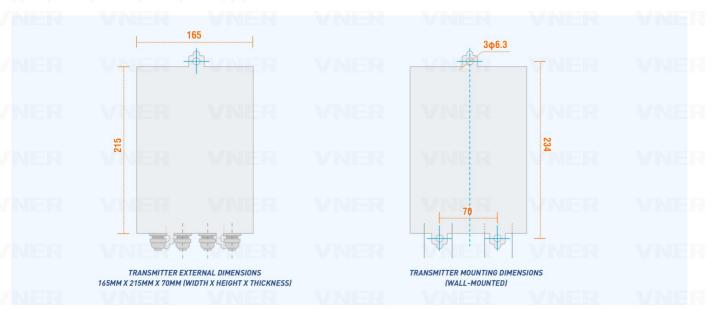
6.2 INTEGRAL TRANSMITTER INSTALLATION DIMENSIONS

NOMINAL DIAMETER	L (MM)	D (MM)	К (мм)	H (MM)	H* (MM)	n*d (MM)	PRESSURE Rating	SPECIAL PRESSURE Rating
10	120	60	60	260	190	4*14		
15	200	95	65	310	240	4*14		
20	200	105	75	315	245	4*14		
25	200	115	85	325	255	4*14	4MPa	Below 16MPa
32	200	140	100	325	255	4*18		
40	200	150	110	340	270	4*18		
50	200	165	125	355	285	4*18		
65	200	185	145	375	305	4*18		
80	200	200	160	385	315	8*18		
100	250	220	180	415	325	8*18		
125	250	250	210	445	355	8*18	1.6MPa	4.0MPa
150	300	285	240	475	385	8*22	1.0MFd	4.UMFd
200	350	340	295	505	415	12*22		
250	450	405	355	590	500	12*22		
300	500	460	410	645	555	12*22		
350	500	505	460	695	605	16*22		
400	600	565	515	745	655	16*26		
450	600	615	565	825	735	20*26	1.0MPa	2.5MPa
500	600	670	620	878	788	20*26		
600	600	780	725	988	898	20*30		
700	700	860	810	1095	1005	24*30		
800	800	975	920	1208	1138	24*34		
900	900	1075	1020	1310	1220	28*34		
1000	1000	1175	1120	1413	1323	28*36		
1200	1200	1405	1340	1525	1435	32*33	0.6MPa	1.0MPa
1400	1400	1630	1560	1735	1645	36*36		
1600	1600	1830	1760	1965	1875	40*36		
1800	1800	2045	1970	2155	2065	44*39		
2000	2000	2265	2180	2365	2275	48*42		

Note: H represents the height of the Integrated Transmitter. For remote model please consult manufacturer.

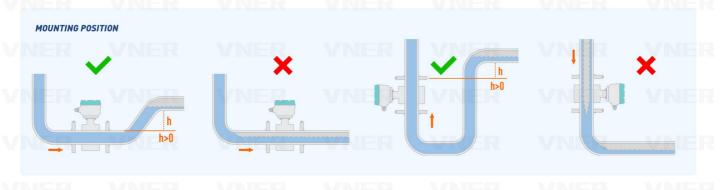


6.3 REMOTE TRANSMITTER INSTALLATION DIMENSIONS

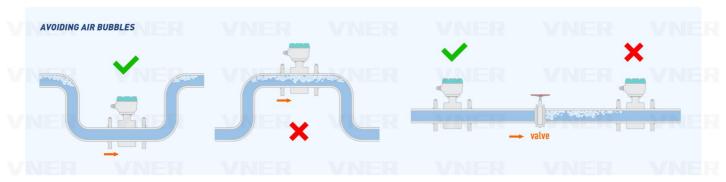


6.4 MOUNTING POSITION

To ensure precise flow measurement, it is imperative to maintain a continuous flow of liquid in the measurement pipe. Any interruption in the flow can adversely impact the measuring result and cause measurement errors. To avoid such inaccuracies, the pipework must be designed such that the flow measurement pipe is consistently filled with fluid. Vertical mounting of the pipe is recommended for fluids that contain abrasives or are diverted. When employing vertical mounting, it is essential to ensure that the fluid flows from bottom to top to ensure that the pipeline is always filled with fluid.



In addition to this, the presence of air bubbles in the fluid can also impact the flow measurement and lead to measurement errors. To prevent such errors, the piping must be designed to prevent the accumulation of air bubbles in the flow measurement tube. If there is a valve near the flow tube, it is advisable to position the tube upstream of the valve to avoid air bubbles caused by pressure reduction.





6.5 MOUNTING DIRECTION

When electrodes are placed perpendicular to the ground, the measurement results may be erroneous due to the presence of air bubbles at the top or sediment at the bottom. To avoid such inaccuracies, it is recommended to install the transmitter at the top of the piping system. This will prevent water from entering the system and ensure accurate measurements.

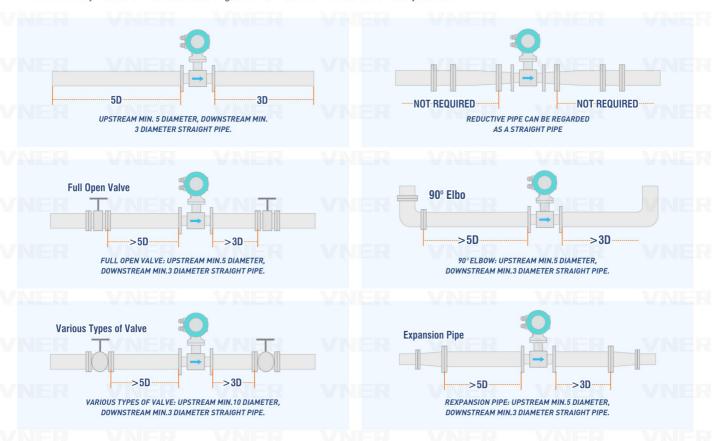


6.6 STRAIGHT PIPELINE REQUIREMENTS

Avoid installing any objects near the flow tube that may interfere with its magnetic field, induce signal voltage, or disrupt its flow field distribution.

Require a straight pipe section of 5D upstream and 3D downstream, and increase the length of straight pipe section if elbows, valves, or other flow-disturbing components are present.

Install a valve at the downstream end of the flow measurement tube to prevent flow fluctuations and inaccurate measurements caused by an empty tube. Ensure the valve is correctly installed and calibrated according to the manufacturer's instructions and industry standards.



· Maintain stable fluid conductivity

Avoid installing the flowmeter in a location where the fluid conductivity is not uniform. If chemicals are injected near the upstream end of the electromagnetic flowmeter, the flow rate display may be affected. To avoid this, it is recommended that the injection of chemicals be rerouted to the downstream end of the flowmeter. If injection must be made from the upstream end, use a straight section of pipe long enough (approx 50D) to ensure that the fluid is well mixed with the chemical.



6.7 ADDITIONAL INFORMATION

To ensure reliable and stable operation of the flowmeter, it is essential to pay attention to the following installation requirements:

- Avoid installing the flowmeter near magnetic objects or equipment with strong electromagnetic fields, such as large motors or transformers, as these could affect the sensor's magnetic field and flow signal.
- Install the flowmeter in a dry and well-ventilated location to avoid accumulation of moisture.
- Avoid exposing the flowmeter to direct sunlight or rain, and make sure that the ambient temperature does not exceed 60°C and the relative humidity does not exceed
- Choose a location that is easy to maintain and allows easy movement of the flowmeter.
- · Always install the flowmeter at the back end of the pump, and never on the suction side. Install the valve on the downstream side of the flow.

7. LIST OF CORROSION-RESISTANT MATERIALS FOR ELECTRODES AND LININGS (REFERENCE ONLY)

MATERIAL Description	CONCENTRATION %	TEMPERATURE °C	STAINLESS STEEL	HASTELLOY C	TITANIUM (TI)	TANTALUM (TA)	PLATINUM (PT)	POLYTETRAFLUOROETHYLENE (PTEF)	PFA	POLYURETHANE Rubber	CHLOROPRENE Rubber
MER	5~10	R~S	A	A	А	A	Α	A A	А	N	Α
Acetic acid	Over 50	R~S	N	А	Α	Α	Α	Α	Α	N	N
	S	R~S	N	A	Α	Χ	Α	A	Α		N
Aluminium chloride	10	Below 100	N	N	Α	В	Α	A			A(M)
Atummum chtorius	25~100	Below 100	N	N	N	В	Α	A			A(M)
Ammonia	10	R	A	A	Α	X	Α	A			
Allillollia	10 ~ 100	Below S	В	Α	Α	N	Α	A	Α		A(M)
Bauxite slurry			A	A		Α	Α	В	Α	A	В
Beer			Α	А		Α	Α	A			
Black liquor			В			А	Α	A		N	N
Brine		R~S	В	A	Α	Χ	Α	A		N	A(M)
	5~25	R~S	А	А	Α	Χ	Α	A			A(M)
Citric acid	50	R	A	A	Α	X	Α	A A			A
	50	S	Α	А	В	Χ	Α	A		В	A(M)
Slurry			N	В		Α	Α	A		Α	Α
Coal+water sluyr			Α	A		Α	Α	NIEM _B		A(M)	А
Copper sulfate	5~50	R~S	В	В	В	А	Α	A		A(M)	A(M)
Copper Suttate	50 ~ Sat	R~S	В	В	В	X	Α	N E R A		N	A(M)
Dairy products			Α	Α		Α	Α	В		N	N
Dynes			A	A		A	Α	Α Α			N
	100	R	Α	Α	Α	Χ	Α	A			В
Fatty said	100	S	В	Α	Α	Χ	Α	A			N
Fatty acid	100	135	Α	A	Α	χ	Α	A A			B(M)
	100	315	Α	В	Α	Χ	Α	A			
	0.5~5	R	N	Х	Α	A	Α	A A	Α		В
	10 ~ 20	R	N	В	Α	Α	Х	A	Α		В
	37	R	В	N	N	Α	Х	А	Α		В
Hydrochloric acid	10	50	N	В	N	A	Α	NERA	A		В
	5	60	N	N	А	А	А	А	Α		В
	0.5 ~ 5	S	N	N	A	X	Α	NIERA V	Α		N
	10 ~ 37	S	N	N	N	χ	χ	Α	Α		N
Glucose syrup			A	A		Α	Α	A	A	A	A
Green liquid			A	A		Α	Α	A	Α		N



MATERIAL Description	CONCENTRATION %	TEMPERATURE °C	STAINLESS STEEL	HASTELLOY C	TITANIUM (TI)	TANTALUM (TA)	PLATINUM (PT)	POLYTETRAFLUOROETHYLENE (PTEF)	PFA	POLYURETHANE Rubber	CHLOROPRENE RUBBER
Lime slurry	VIVIEN		N	В	VIV	А	А	A	AN		A
Lime stone slurry			N	В		А	А	A		А	Α
Magnesium hydroxide	100		N	N		N	Α	A A	Α		
Molasses			Α	Α		А	А		Α	N	Α
Mud drilling			A	A		А	Α		N	A	A
Nickel sulfate		80	N	N	χ	A	Α	A			A(M)
	7~65	R	Χ	Χ	χ	A	А	A	А		В
Nitric acid	7~65	S	χ	N	χ	A	Α	A	Α		N
NICITE ACIU	100	R	N		χ	А	A	A	А		N
	100	50 ~ S			A	A	Α	A	Α		N
Paper stock		R~S	В	Α	χ	A	Α	A			N
	1~ 30	R	χ	χ	В	A	A	A	А		A
Phosphoric acid	45~ Sat	R	В	Х	N	A	A	A	A		A
,	80~ Sat	140~150	N	N		A	A	A	А		A(M)
	10~ 20	R	A	Х	N	N	A	A A	A		A
Potassium hydroxide	20~ 50	R	В	χ		N	Α	A	А		Α
,	10~ 50	S	В	Х	Α	N	A	Α	A		Α
Sewage(Raw)				A	A	A	A	A		A	A
Sea water		R	В	A	A	A	A	A			N
Sludge			A	A	A	A	A	A I E R A		N	В
	10~ 20	R~S	A	A	В	A	A	A			A(M)
Sodium bicarbonate	To 100	R~S	N	N	A	A	A	A A	A		A(M)
	10~ 20	R	A	N	A	N	A	A	Α		A
	34~ 50	R	В	N	А	N	A	A	А		A
	10~ 20	~ 150	N	N	В	N	A	NIER A	A		A(M)
Sodium hydroxide	30~50	70 ~ 150	N	N	В	N	A	A	A		A(M)
	50	180	N =	N	В	N	A	A A	A		A(M)
	60~ 100	~ 150	N	N	χ	N	A	A	A		A(M)
	2~5	R	N	Х	Χ	A	A	A	A		Α
	10	R	N	X	В	A	A	A	A		N
	25~ 60	R	N	Х	N	A	A	A	А		N
	70~ 85	R	N =	X	N	A	A	NIERA	AA		N
Sulfuric acid	90~ 96	R	Х	Х	Х	A	A	A	A		N
	2~5	150	N	N	N	N	A	A A	A		A(M)
	5~ 60	180	N N	N	N	N	A	A	A		N
	77~ 96	150	N	N	11	N	A	A	A		N
Urea	50		A	A			A			E N	N
Uric acid	00	R	A	A		Χ	A	A		TI TI	A
White liquid		11	N	N		A	A	A A			В
winte aquiu			N	IN		A	A	A			D

Symbol Interpretation:

A - Applicable

B - Proceed with caution, consult manufacturer

N - Not applicable

X - Corrosion-resistant, but not recommended

Blank - No data available

R - Ambient Temperature

S - Boiling point

Sat - Saturated

(M) - Maximum temperature resistance of the lining

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