IFLO Electromagnetic Flowmeter
IFLO-LD

GENERAL

Compact Type

IFLO-LD Intelligent electromagnetic flow meter is a high-performance, high-reliability flow meter. Used to measure the volume flow of conductive liquid and slurry in closed pipes. Widely used in steel, electricity, petroleum, chemical industry, coal, metallurgy, papermaking, water supply and drainage, food, pharmaceutical industry, etc.

Features

Remoted Type

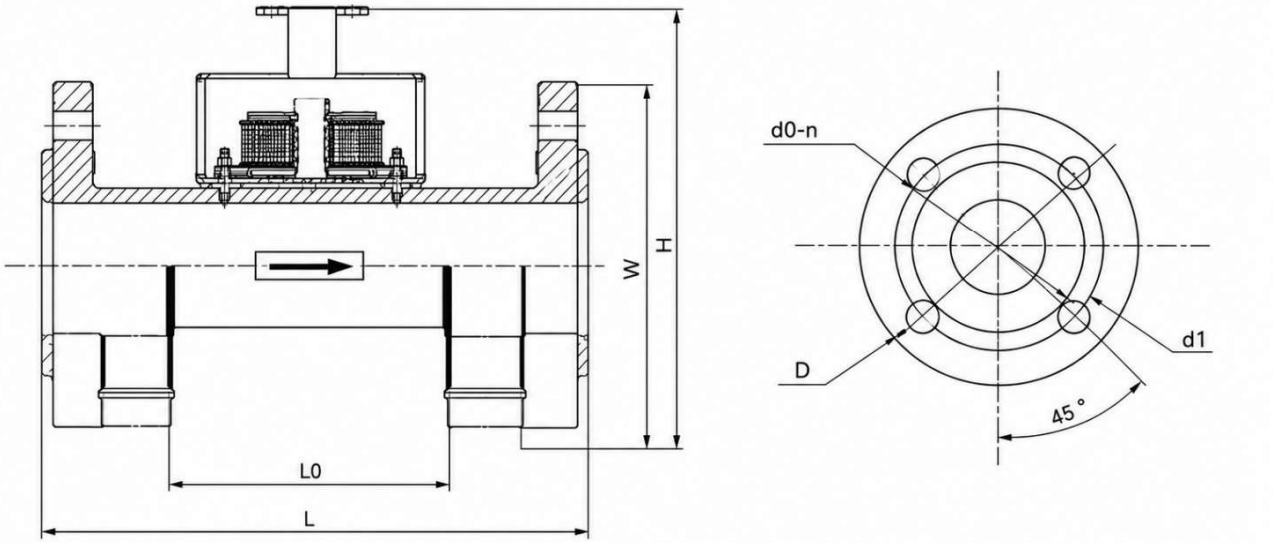
- Various liners and electrodes satisfy most industrial applications
- Flow Velocity range: 0-12 m/s, precise in low flow applications
- It comes in any flanges such as, ANSI, DIN, JIS etc.
- Excellent for high pressure application
- Protection class: IP68 available; sensor submersible
- FEP Liner is suitable for vacuum tube
- High accuracy of +/-0.5% value of reading (or +/-0.2% value of reading)
- With Forward / Reverse flowrate measurement function
- It has an electrode cleaning function

- Measurements are not affected by fluid density, viscosity, temperature, pressure and conductivity.
- No obstacles in the measuring tube, no pressure loss, low requirements for straight pipe section.
- The LCD backlight type converter can be easily displayed and read in the sun or in a dark room.
- In harsh environments, parameters can be set via infrared touch buttons without opening the cover of the converter (need to be customized).
- Flow meter with bidirectional measurement system, built-in three totalizers: positive total, reverse total and total difference.
- It has various forms of output: current 4-20mA, pulse, frequency, rs-485, HART.
- 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.
- Not only for general processes, but also for the measurement of ore pulp, mud, coal slurry, paper pulp and paste liquid.
- High-pressure electromagnetic flow sensor with PFA lining technology, resistant to high pressure and negative pressure, especially suitable for petroleum, chemical and other industries.
- Explosion-proof instruments can be used in corresponding explosion-proof places.

STANDARD SPECIFICATION

Size	:3,6,10,15,20,25,32,40, 50,65,80,100,125,150, 200,250,300,350,400, 450,500,600,700,800, 900,1000,1200,1400, 1600,1800,2000 mm	Grounding Electrode	: Thread, Flanged
Measuring Range	: 0-15 m/s Max.	Process Connection	: Flanged, Thread
Material Body	: Carbon Steel (Standard); : Stainless Steel 304 (Option); : Stainless Steel 316L (Option)	Flange Type	: JIS10K/JIS20K/JIS40K; : ANSI150#/300#/600#; : DIN PN10/PN16/PN25/PN40
Liner	: Neoprene; : PTFE; : F46; : PFA; : Polyurethane rubber; : Silicone Rubber; : Ceramics	Thread Type	: BSP, NPT, etc.
Protection Class	Standard : IP65 (Sensor IP65, Converter IP65); Option : IP67 (Sensor IP67, Converter IP65); : IP68 (Sensor IP68, Converter IP65):	Accuracy	: 0.5% Standard; 0.3%,0.2% Option
Conductivity	: More than 5 uS/cm	Temperature	: -20~80C; -20~120C; -20~150C
Explosion Proof	: Ex d ia Iia q IIC T6	Ambient Temperature	: -25~60C
Grounding ring (Flanged)	: SS316L; : Hastelloy B; : Hastelloy C; : Titanium; Tantalum; : Platinum-iridium alloy; : SS coated with Tungsten carbide; : Monel	Max Pressure	: 350 kgf/cm2

Electromagnetic flow meter sensor dimension drawing



Connection specifications		JIS10K										
Nominal diameter (DN)		20	25	40	50	65	80	100	125	150	200	250
Long	L	192	192	192	192	250	250	250	250	300	350	450
Width	W	105	115	145	160	180	195	215	245	280	335	405
High	H	155	165	195	210	230	245	265	295	330	385	455
Outer diameter	D	100	125	140	155	175	200	225	270	305	350	430
Bolt center distance	K	75	60	105	120	140	160	185	225	260	305	380
Flange thickness	C	14/18	14/18	16/20	16/20	18/22	20/24	22/26	22/26	24/28	26/30	28/34
Number of holes	d0-n	4-15	4-19	4-19	4-19	4-19	8-19	8-19	8-23	8-23	12-23	12-25

Connection specifications		DIN PN16(1.6MPa)										
Nominal diameter (DN)		15	20	25	32	40	50	65	80	100	125	150
Long	L	192	192	192	192	192	192	250	250	250	250	300
Width	W	95	105	115	135	145	160	180	195	215	245	280
High	H	145	155	165	185	195	210	230	245	265	295	330
Outer diameter	D	95	105	115	140	150	165	185	200	220	250	285
Bolt center distance	K	65	75	85	100	110	125	145	160	180	210	240
Flange thickness	C	14	16	16	18	18	20	20	22	24	26	26
Number of holes	d0-n	4-14	4-14	4-14	4-18	4-18	4-18	4-18	8-18	8-18	8-18	8-22

Connection specifications		DIN PN40(4.0MPa)									
Nominal diameter (DN)		15	20	25	32	40	50	65	80	100	125	150
Long	L	192	192	192	192	192	192	250	250	250	250	300
Width	W	95	105	115	135	145	160	180	195	215	245	280
High	H	145	155	165	185	195	210	230	245	265	295	330
Outer diameter	D	95	105	115	140	150	165	185	200	220	250	285
Bolt center distance	K	65	75	85	100	110	125	145	160	180	210	240
Flange thickness	C	14	16	16	18	18	20	20	22	24	26	26
Number of holes	d0-n	4-14	4-14	4-14	4-18	4-18	4-18	8-18	8-18	8-22	8-26	8-26

IFLO – LD Pipeline Electromagnetic Flow Meter Selection Table

Normal Diameter									
Size	**Code**	**Size**	**Code**	**Size**	**Code**	**Size**	**Code**	**Size**	**Code**
3	030	50	500	300	301	900	901	2200	222
6	060	65	650	350	351	1000	102	2400	242
10	100	80	800	400	401	1200	122	2600	262
15	150	100	101	450	451	1400	142	2800	282
20	200	125	125	500	501	1600	162	3000	302
25	250	150	151	600	601	1800	182	3200	322
32	320	200	201	700	701	2000	202		
40	400	250	251	800	801	2000	202		

Model	Code	Description
IFLO-LD		Electromagetic Flow Meter
IFLO-LD/R		Electromagetic Cold Heat Meter (BTU)
IFLO-LD/S		Sanitary Electromagetic Flow Meter
Diameter	xxx	Diameter: DN3-600 Code:030-601 (Size chart above)
NormalPressure	6	0.6 MPa
	10	1.0 MPa
	16	1.6 MPa
	XX	Other Pressure are compiled as above
Liner Material	1	Neoprene
	2	PTFE
	3	F46
	4	PFA
	5	Polyurethane rubber
	6	Silicone Rubber
	7	Ceramics
Electrode Material	1	Stainless Steel 316L
	2	Hastelloy B
	3	Hastelloy C
	4	Titanium
	5	Tantalum
	6	Platinum-iridium alloy
	7	Stainless Steel Coated with Tungsten carbide
	8	Monel
Connection Method	A	Flange Connection
	B	Clamping Type
	C	Clamp Connection
	D	Thread Connection
Body Material	1	Standard (Carbone Steel)
	2	SS304
	3	SS316L
Housing Protection	1	IP65
	2	IP67 (Sensor IP67, Converter IP65)
	3	IP68 (Sensor IP68, Converter IP65)
Explosion-Proof Mark	1	None
	2	Exd ia[ia Ga] q IIC T6 Gb
Annex	1	None
	2	Matching flanges and fasteners
	3	Ground Ring
	4	Ground electrode
Electrode Form	A	Fixed
	B	Scraper
Structure	EH	Integrated
	ER	Split Type

Power	1	85-265V AC 45-400Hz
	2	11-40V DC
	3	3.6V Battery
	4	Solar Power Supply
Output	MA	Frequency, pulse/4-20mA/RS485, Mobus Protocol
	MB	Frequency, pulse/4-20mA/HART, Mobus Protocol
	MC	Frequency, pulse/4-20mA/RS485,HART Mobus Protocol
	MD	Frequency, pulse/4-20mA/RS485, Profibus DP
	ME	Frequency, pulse/4-20mA/RS232
	MF	GPRS Wireless Communication
	MG	Frequency, pulse/4-20mA, process control type

Flow Range Table

DN (mm)	Flow Velocity						
	0.5 m/s	1 m/s	2 m/s	3 m/s	4 m/s	5 m/s	15 m/s (Max)
10	0,14	0,28	0,57	0,85	1,13	1,41	4,24
15	0,32	0,64	1,27	1,91	2,54	3,18	9,54
20	0,57	1,13	2,26	3,39	4,52	5,65	16,96
25	0,88	1,77	3,53	5,30	7,07	8,84	26,51
32	1,45	2,90	5,79	8,69	11,58	14,48	43,43
40	2,26	4,52	9,05	13,57	18,10	22,62	67,86
50	3,53	7,07	14,14	21,21	28,27	35,34	106,03
65	5,97	11,95	23,89	35,84	47,78	59,73	179,19
80	9,05	18,10	36,19	54,29	72,38	90,48	271,43
100	14,14	28,27	56,55	84,82	113,10	141,37	424,12
125	22,09	44,18	88,36	132,54	176,71	220,89	662,68
150	31,09	63,62	127,23	190,85	254,47	318,09	954,26
200	56,55	113,10	226,19	339,29	452,39	565,49	1.696,46
250	88,36	176,71	363,43	530,14	706,86	883,57	2.650,72
300	127,23	254,47	508,94	763,41	1.017,88	1.272,35	3.817,04
350	173,18	346,36	692,72	1.039,08	1.385,44	1.731,80	5.195,41
400	226,19	452,39	904,78	1.357,17	1.809,56	2.261,96	6.785,84
450	286,28	572,56	1.145,11	1.717,67	2.290,22	2.862,78	8.588,33
500	353,43	706,86	1.413,72	2.120,58	2.827,43	3.534,29	10.602,88
600	508,94	1.017,88	2.035,75	3.053,63	4.071,50	5.089,38	15.268,14
700	692,72	1.385,44	2.770,88	4.156,33	5.541,77	6.927,21	20.781,64
800	904,78	1.809,56	3.619,11	5.428,67	7.238,23	9.047,79	27.143,36
900	1.145,11	2.290,22	4.580,44	6.870,66	9.160,88	11.451,11	34.353,32
1000	1.413,72	2.827,43	5.654,87	8.482,30	11.309,73	14.137,13	42.411,50
1200	2.035,75	4.071,50	8.143,01	12.214,51	16.286,02	20.357,52	61.072,56
1400	2.770,88	5.541,77	11.083,54	16.625,31	22.167,08	27.708,85	83.126,54
1600	3.617,11	7.238,23	14.476,46	21.714,69	28.952,92	36.191,15	108.573,44

1800	4.580,44	9.160,88	18.321,77	27.482,65	36.643,54	45.804,42	137.413,26
2000	5.654,87	11.309,73	22.619,47	33.929,20	45.238,93	56.548,67	169646,00
2200	6.842,39	13.684,78	27.369,56	41.054,33	54.739,11	68.423,89	205.217,66
2400	8.143,01	16.286,02	32.572,03	48.858,05	65.144,07	81.430,08	244.290,24
2600	9.556,72	19.113,43	38.226,85	57.340,71	76.453,71	95.567,13	286.701,40
2800	11.083,54	22.167,90	44.334,15	66.501,23	88.668,31	110.835,39	332.506,16
3000	12.723,45	25.446,90	50.893,80	76.340,70	101.787,60	127.234,50	381.703,50

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