

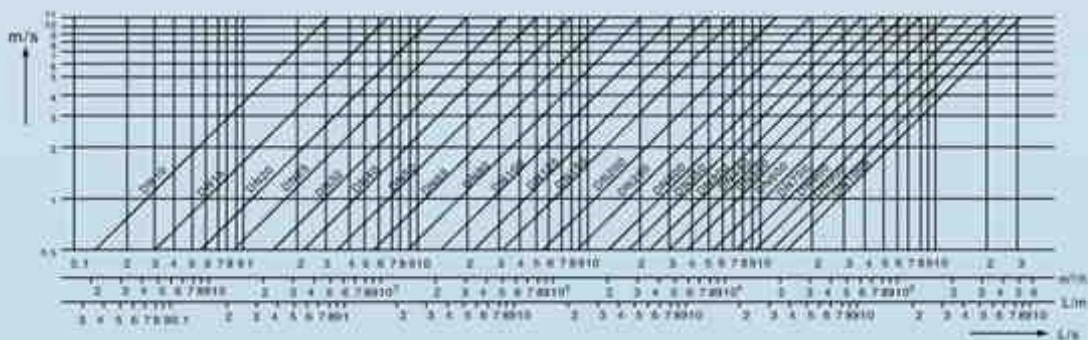
## 4. APPARATUS SELECTION

DN	Minimum flow volume selection	Usual full range flow volume selection ( m <sup>3</sup> /h )
10	0.1	0.4,0.5,0.6,0.8,1.0,1.2,1.6,2.0,2.5
15	0.20	1.0,1.2,1.6,2.0,2.5,3.0,4.0,5.0,6.0
20	0.35	2.0,2.5,3.0,4.0,5.0,6.0,8.0,10.0,12.0
25	0.55	3.0,4.0,5.0,6.0,8.0,10.0,12.0,14.0,16.0
32	1.0	5.0,6.0,8.0,10.0,12.0,16.0,20.0,25
40	1.5	8.0,10.0,12.0,16.0,20.0,25.0,30.0,40
50	2.5	12.0,16.0,20.0,25.0,30.0,40.0,50.0,60.0,70
65	4.0	20.0,25.0,30.0,40.0,50.0,60.0,80.0,100.0,120
80	5.5	25.0,30.0,40.0,50.0,60.0,80.0,100.0,120.0,160
100	8.5	40.0,50.0,60.0,80.0,100.0,120.0,160.0,200.0,250
125	14	60.0,80.0,100.0,120.0,160.0,200.0,250.0,300.0,400
150	20	100.0,120.0,160.0,200.0,250.0,300.0,400.0,500.0,600
200	35	160.0,200.0,250.0,300.0,400.0,500.0,600.0,800.0,1000
250	55	200.0,250.0,300.0,400.0,500.0,600.0,800.0,1000.0,1200.0,1600
300	80	300.0,400.0,500.0,600.0,800.0,1000.0,1200.0,1600.0,2000.0,2500
350	105	400.0,500.0,600.0,800.0,1000.0,1200.0,1600.0,2000.0,2500.0,3000
400	135	500.0,600.0,800.0,1000.0,1200.0,1600.0,2000.0,2500.0,3000.0,4000
450	175	600.0,800.0,1000.0,1200.0,1600.0,2000.0,2500.0,3000.0,4000.0,5000
500	215	800.0,1000.0,1200.0,1600.0,2000.0,2500.0,3000.0,4000.0,5000.0,6000
600	305	1000.0,1200.0,1600.0,2000.0,2500.0,3000.0,4000.0,5000.0,6000.0,10000
700	415	1200.0,1600.0,2000.0,2500.0,3000.0,4000.0,5000.0,6000.0,10000.0,12000
800	545	1600.0,2000.0,2500.0,3000.0,4000.0,5000.0,6000.0,10000.0,12000.0,16000
900	690	2000.0,2500.0,3000.0,4000.0,5000.0,6000.0,10000.0,12000.0,16000.0,20000
1000	850	2500.0,3000.0,4000.0,5000.0,6000.0,10000.0,12000.0,16000.0,20000.0,25000
1200	1250	6000.0,10000.0,15000.0,20000.0,25000.0,30000.0,35000
1400	1700	8000.0,10000.0,20000.0,30000.0,40000.0,50000
1600	2500	10000.0,20000.0,30000.0,40000.0,50000.0,65000
1800	3000	15000.0,20000.0,30000.0,40000.0,50000.0,60000.0,70000.0,80000
2000	3500	20000.0,40000.0,60000.0,80000.0,100000

In the normal industry application, it is better to set the measured medium speed as 2–4m/s, under the special situation, the minimum speed should be more than 0.2m/s and maximum speed less than 8m/s, if there are solid granules in liquid, the usual speed should be less than 3m/s for purpose to avoid the over-attrition between lining and electrical poles. for viscid liquid, the speed can choose as 2m/s, the fast flow speed makes for the automatic elimination of obstructive substances glued on poles, therefore improve the inspection's preciseness.



Graph illustration of nominal diameter, flow speed and flow volume of flowmeter.



# ELECTROMAGNETIC FLOWMETER



## 1. SUMMARY

LD electromagnetic flowmeter is an inductive apparatus to measure the flow volume of electric medium in the tube. The flowmeter composes of sensor and converter, the flowmeter design is adopted of SCM built-in technology to realize digital inciting magnetism the SCM connects CAN bus-mastering in the electromagnetic flowmeter at the same to time. The electromagnetic flowmeter can not only be read straightly but also output 4~20MA current signal for purpose of memory, adjustment and control. The flowmeter is extensively used in industry technology and administration department such as chemical industry, environmental protection, metallurgy, medicine, paper making and water supply etc.

## 2. FUNCTIONAL CHARACTERISTICS

- The structure of flowmeter is simple, function is reliable because there are no transmission parts, the working lifetime is long.
- There are no block-and cut-off parts, so the phenomenon of pressure loss and liquid block is not existed.
- There is no mechanical inertia, fast response, excellent stability. It can be applied on automatic inspection adjustment and program process system.
- The preciseness of measure is free of physical data influence of medium varieties, temperature, viscosity, density and pressure etc.
- The different configurations of both PTFE or rubber lining and electrical poles HC,HB, 316L, Ti etc can satisfy different medium requirements.
- There are two models: integration and separation.
- High definition LCD displayer.

## 3. TECHNICAL DATA

gauge preciseness: pipe style 0.5 grade, 1.0 grade; insert style 2.5 grade

Measure medium: two kinds of flowing substances: all of liquids and liquid-solids whose electric conductance ratio is less than 5US/CM.

Flow speed range: 0.3~12m/s

Working pressure: 0.6~4.0 MPa(按口径分)

Environmental temperature: -10°C ~ +50°C

Medium temperature: PTFE linings≤150°C rubber linings≤65°C

Anit-explosion signal: Exd I IBT4

Electromagnetic interference: ≤400A/m

Shell protection: integration style: IP65; separation style: sensor IP68, Converter IP65

Output signal: 4~20m, loading resistance0~750Ω

Transmission output: RS485 or CAN bus-line

Electrical connection: M20X1.5 female thread, ø10 cord hole

Electrical power voltage: 220±10%VAC, 24VDC

Maximum power consumption: ≤10VA