Product overview

LM400 series magnetic flip plate liquid level meter is composed of body, flip plate box (composed of red and white two-color magnetic flip plate), float, flange cover, etc., which is used for liquid level measurement of all kinds of liquid containers. Can be used for high temperature, explosion-proof, anticorrosion, food and beverage and other occasions, as liquid level in situ display or remote display and control. LM400 series magnetic level gauge turning products can achieve high sealing and leakage protection and in high temperature and high pressure, high viscosity, strong corrosion resistance under the condition of safe and reliable to measure the liquid level, the whole process of measurement without blind area, display, intuitive readings, and large measuring range, with liquid level alarm, control switches, which can realize liquid level alarm and control or the position of the upper and lower limits, deserve to go up level transmitter the liquid level, the position signal can be converted into two wire 4-20 madc standard signal, realizing remote detection, indicating, recording, and control.

working principle

When measuring liquid with magnetic flip plate level gauge, top loading or side loading with bypass tube shall be adopted. The magnetic flip plate body is equipped with a flip liquid level indicator, a liquid level switch and a liquid level transmitter. The magnetic element is placed inside the float ball or connected with the float ball through a jacking rod. When the float ball and the magnetic element change with the liquid level, the magnetic color block (magnetic flip plate) is flipped. The magnetic liquid level switch operates at the corresponding liquid level point; At the same time, under the action of magnetic force of the float ball, the liquid level sensor outputs the resistance signal of the standard, and converts the resistance signal into 4~20mA current signal output through the transmitter.

Product features

- suitable for liquid level measurement in various media, with various installation forms
- the tested medium is completely isolated from the indicator structure, with good sealing performance, leakage prevention, and high reliability for liquid level measurement under high pressure and high temperature conditions
- set of on-site instruction, remote transmission, alarm control about one and can be adjusted freely
- double color indicator with noctilucent, continuous intuitive, eye-catching, large measurement range, observation direction can be arbitrarily changed
- good vibration resistance, suitable for use in environments with large liquid level fluctuations
- simple structure, easy installation, low maintenance cost

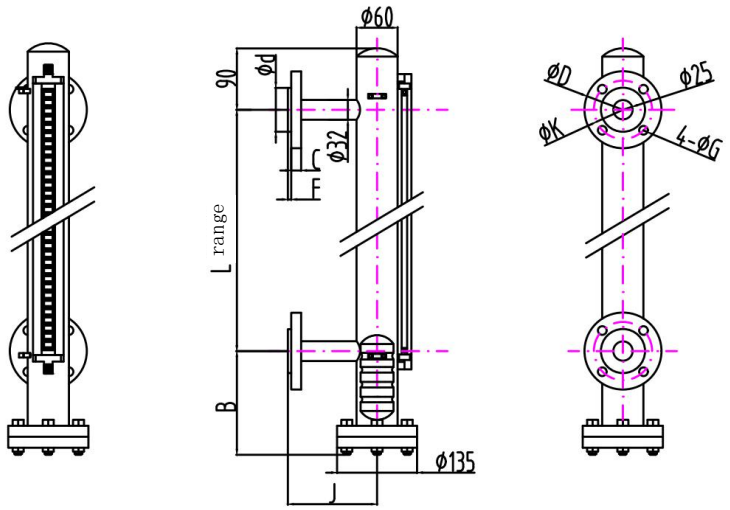
product application

LM400 series magnetic flip plate liquid level meter is widely used in power, petroleum, chemical, metallurgy, environmental protection, shipping, construction, food and other industries in the production process of liquid level measurement and control.

Technical parameters

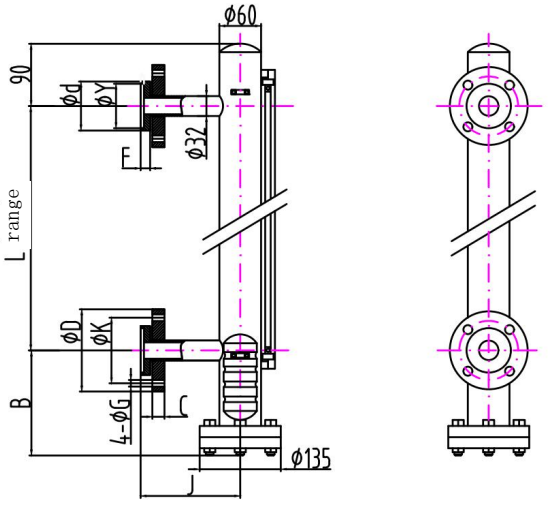
◇ measurement range: 150~8000mm
◇ work pressure: atmospheric pressure; 1.6 Mpa. 4.0 Mpa. 6.4 Mpa. 10 mpa
◇ Interface: flange or thread
◇ body material: 304 stainless steel
◇ sheet material: aluminum alloy
◇ medium density: 0.8~1.0g/cm3
◇ medium viscosity: ≤ 0.4pa. S
◇ operating temperature: -20~80℃;
◇ medium temperature: -20~100℃;

Installation method/size drawing (mm)



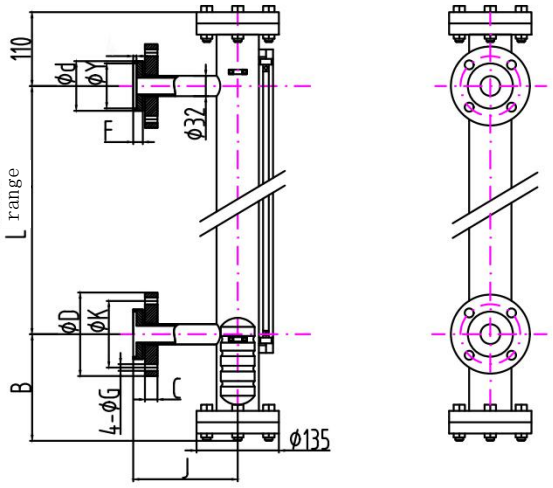
Dome + double flange (in special cases, users can indicate the dimensions of L, B, J, D, K, G, C, D, f)

Code / working pressure	L	B	J	D	K	G	C	d	f
PN1.6MPa	range	150	130	115	85	14	12	65	2
PN4.0MPa	range	150	130	115	85	14	16	57	4
PN6.3MPa	range	200	130	135	100	18	22	57	4



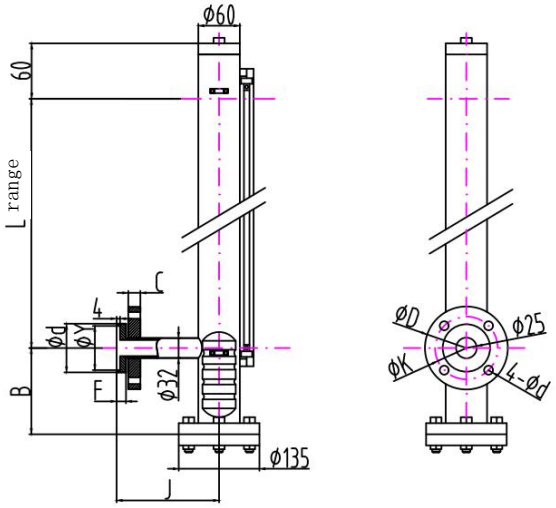
Dome + double loose sleeve flange (in special cases, users can indicate the dimensions of L, B, J, D, K, G, Y, D, F, C)

Code / working pressure	L	B	J	D	K	G	Y	d	F	C
PN1.6MPa	range	150	130	115	85	14	58	65	12	12
PN4.0MPa	range	150	130	115	85	14	58	65	16	16
PN6.3MPa	range	200	130	135	100	18	58	78	22	22



Top flange + double loose sleeve flange (in special case, the user can indicate the size of L, B, J, D, K, G, Y, D, F, C)

Code / working pressure	L	B	J	D	K	G	Y	d	F	C
PN1.6MPa	range	150	130	115	85	14	58	65	12	12
PN4.0MPa	range	150	130	115	85	14	58	65	16	16
PN6.3MPa	range	200	130	135	100	18	58	78	22	22

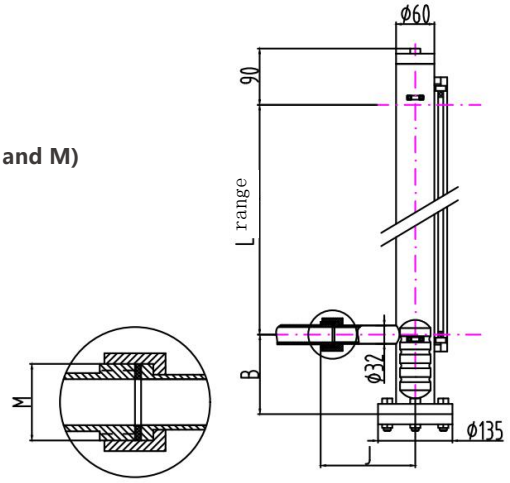


Single flange + loose flange (in special cases, the user can indicate the dimensions of L, B, J, C, K, d, d, E, F, G)

Code / working pressure	L	B	J	D	K	G	Y	d	F	C
Atmospheric pressure	range	150	130	115	85	14	58	65	12	12

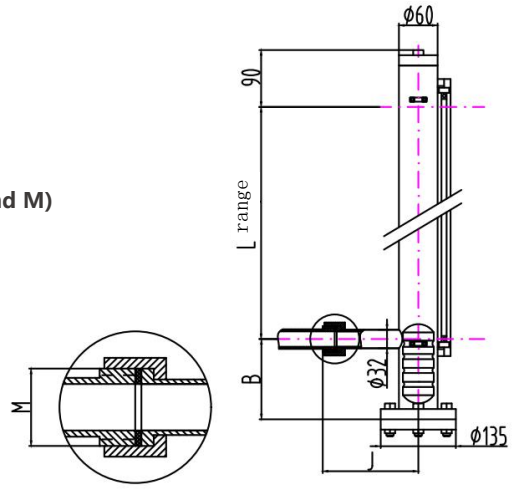
Dome + double thread (in special case, the user can indicate the size of L, B, J and M)

Code / working pressure	L	B	J	M
PN1.0Mpa	range	150	130	G1″
PN4.0Mpa	range	150	130	G1″
PN6.3Mpa	range	200	130	G1″



Single thread (in special cases, the user can specify the dimensions of L, B, J and M)

Code / working pressure	L	B	J	M
Atmospheric pressure	range	150	130	G1″



Selection table

LM400-	1	-	M1	S	-	-	L1000	detailed
LM400								Magnetic flip plate level meter
	1							Dome + double loose sleeve flange
	2							Top flange + double loose sleeve flange
	3							Single flange + loose flange
	4							Dome + double thread
	5							A single thread
		F25						flange diameter: DN25
		F50						flange diameter: DN50
			M1					medium: water
			M2					medium: oil
				S				Material: stainless steel
				A				material: ABS
				P				material: PP-R
					-			Atmospheric pressure
					016			Nominal pressure: 1.6MPA
					040			Nominal pressure: 4.0MPA
					063			Nominal pressure: 6.3MPA
					100			Nominal pressure: 10.0MPA
						-		Signal output: basic type
						S1		Signal output: with a limit switch output
						S2		Signal output: 2 limit switch outputs
						A		Signal output: 4~20mA
						AE		Signal output: It is safe and explosion-proof (4~20mA)
						E1		Signal output: With 1 original safety explosion-proof limit switch output
							L1000	Measuring range: L installation spacing (measuring range: 150mm-8000mm)

Note: if the user has special requirements such as non-standard flange size, split requirements, or other options, please attach the relevant and required size and other options when ordering.