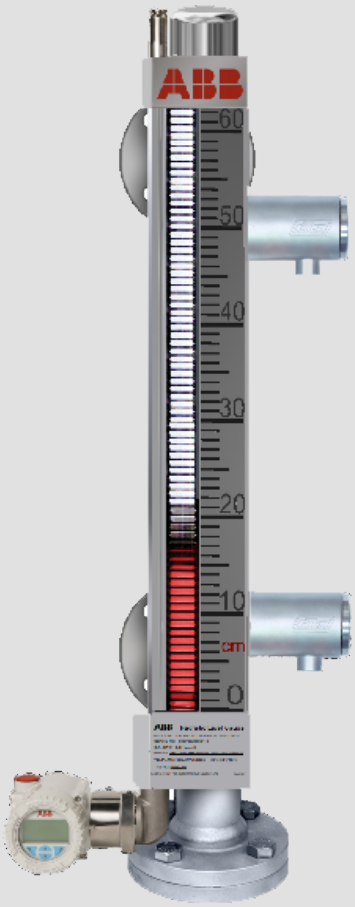
ABB MEASUREMENT & ANALYSIS | DATA SHEET

LMG200

Magnetic level gauge

ENGINEERED
TO OUTRUN



Measurement made easy

Characteristics

- Indicator is vacuum sealed to slow down the aging and fading of the display
- Floats with concentrated and powerful magnetic field ensure reliable flip ping and high resolution
- Stop springs to protect the internal float from damage caused by sudden working conditions. Transmitter and switch options which can be installed, adjusted and maintained with no process interruption
- The 316L scale frame and exposed components can easily cope with corro sive environments
- Customized solutions for media with high viscosity, crystallization and vaporization

Main technical parameters

- Measurement range: 200 to 8000 mm
- Pressure: Vacuum to 11 Mpa
- Temperature: -100℃ to 191 ℃
- Specific gravity (S.G.): 0.45 to 2
- The minimum S.G difference for interface measurement: 0.15
- Accuracy: ±10mm

Available materials

- Stainless steel—304, 316/316L
- 304 or 316L with PTFE lining（Vacuum to 2.5Mpa）
- PP, UPVC, PVDF

Indicator

- 316L metal frame
- Polycarbonate vacuum sealed tube
- Flap type with position limit mechanism, avoid random flip especially under vibration conditions
- Red / white or yellow / black magnetic flap indicator with customizable scale

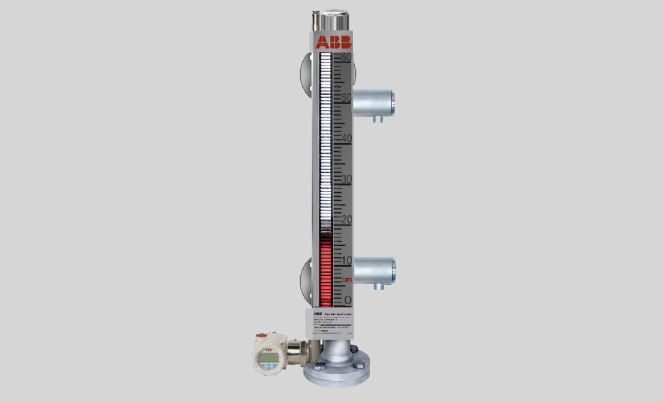
Float

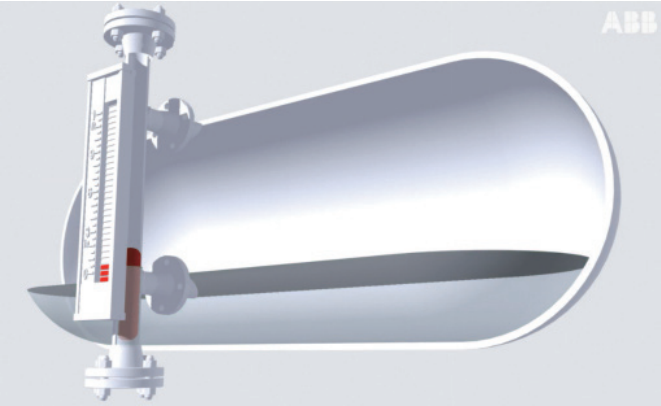
- Titanium or 316L based on specific gravity and pressure
- PTFE lining type: A PTFE protective layer is applied to the metal float shell

Introduction

The LMG200 system consists of a float, a float chamber and an indicator assembly. The float chamber is connected to the process container through a customizable process connection form. The indicator assembly includes a sealed polycarbonate tube with a magnetic flap and a scale corresponding to the required measurement range. The magnetic float inside the chamber couples with the magnetic flap outside the chamber, driving it to flip and indicate its liquid level position.

The LMG200 magnetic level gauge can also be equipped with magnetic coupling switches, magnetostrictive level gauges and other remote transmission devices that utilize magnetic field induction of liquid level signals.







LMG200 Selection Guide

——Selection made easy

—

This manual is tailor-made for you with 2 selection modes to help you complete product selection easily and accurately.



Quick mode

Summarize the common types in general industry for your direct selection



Expert mode

Summarize all the options to help you browse efficiently

Information you should have before starting

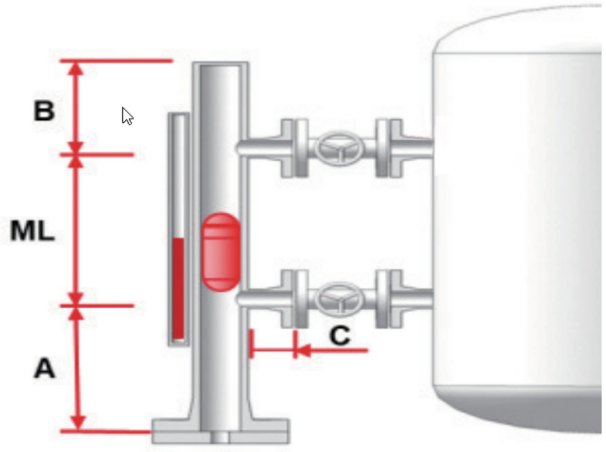
Application information

Tag Number	For project tracking and will be printed on the nameplate
Total/ Interface	S.G difference should be larger than 0.1 for interface measurement
C-C	Distance between 2 side connections, also called measured length (ML)
Min. FLUID S.G.	Fluctuation of specific gravity should not be larger than 5%.
PRESSURE Min./Normal/ MAX./DES.	The designed (or maximum) value is mandatory.
TEMPERATURE Min./Normal/ MAX./DES.	

Functional requirement (side mounted)

Chamber and flange Material (wetted parts)	Normally the same as user's tank
Side process Connection	The style and rating must be provided to match and connect to the user's tank, could be 2 flanges or pipe nipples
Vent Connection	Provide the type and size/rating if user also wants to connect the LMG200 from the top, could be a value, a flange or a thread
Drain Connection	Provide the type and size/rating if user also wants to connect the LMG200 from the bottom, could be a value, a flange or a thread
Style of the indicator	Color of the flippers,Inch or cm of the mark, customized double-scale ruler

Note: Bolts and Nuts material 304, 316L selected based on the chamber material/ Gasket (Graphite foil+ 316L)/ Float material (Titanium or 316L) will be designed by factory default based on application data. Check with ABB for special requirements.



Key dimensions

	Rating		
Length+ mm	**150#**	**300#**	**600#**
A	<320mm	<320mm	<410mm
B	<200mm	<200mm	<200mm
C	85mm	100mm	120mm
ML	Measuring range, equals to side connection distance by default		

Default floats material

	Material	S.G.
Rating（T<232°）	**≤ 0.75kg/m**	**>0.75kg/m**
<300# or PN40	Ti2	316L
>= 300# or PN40	Ti2	

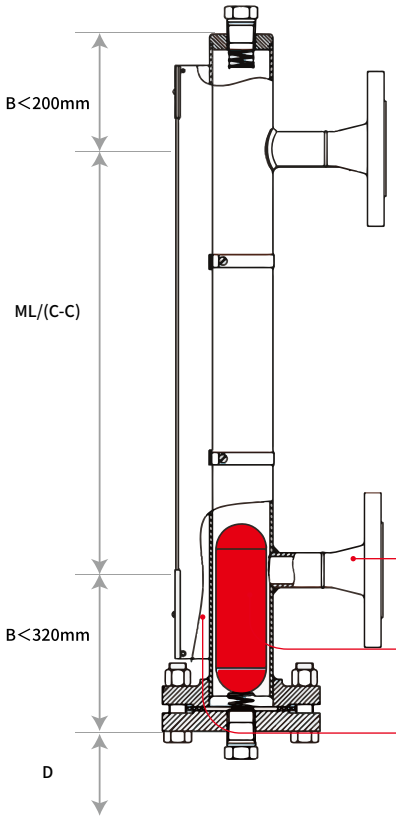
Note: Please consider the compatibility of the floats with liquids. For instance, methanol, gasoline, liquid oxygen, etc. are not suitable for titanium floats. Please consult ABB.

LMG200 Selection Guide--Quick mode

The Quick mode provides users with the most compatible selections with ASME B31.3 design and 316/316L material. Users only need to consider the basic information: side-connection, drain (bottom) and vent(top) style, then provide the density (S.G.) and measurement range (ML) to complete the selection.

Quick Mode 1 –No special vent and drain style required

Default: ½ in. NPT thread for top and bottom connection, sealed with ½ in. plugs



Ground
Check with user if value D is sufficient

Example code
LMG200.1. R13.X// S.G.=0.86. ML=1000mm

LMG200	Product name
1	Quick mode 1
R13	Side connection 1 in. 300#
S.G.	Specific Gravity, for unique float design
ML	Measuring range
X	Not with level transmitters or switches

Go to next page for more side connection code

- Standard : ASME B31.3
- Wetted Material: 316/316L
- Temperature : -20℃ ~130℃
- Pressure: Full vacuum~40 bar
- S.G>=0.45~1.2
- Indicator: 316L frame, Vacuumed PC tube
- Chamber: 2”SCH10
- 316L frame marked in meter/centimeter with 1 cm divisions, white and red MBG
- Vent: end cap with plug
- Drain: WN RF flange and blind flange with plug

Quick code 1 format: LMG200.1. side connection. X // S.G.= . ML=

Side connection: Raised face weld neck flange

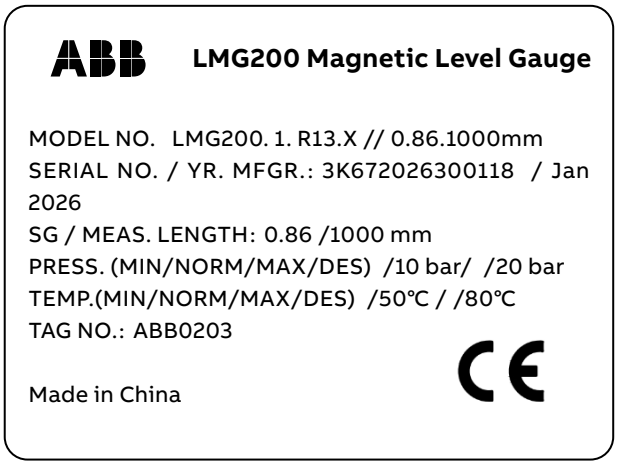
Standard	Size	Rating	Code
ASME B16.5	1 in.	150#	R11
		300#	R13
	2 in Reducing*	150#	R21
		300#	R23
EN1092	DN20	PN16	RBC
		PN25	RBD
		PN40	RBE
	DN25	PN16	RCC
		PN25	RCD
		PN40	RCE
	DN50 Reducing*	PN16	RFC
		PN25	RFD
		PN40	RFE

*When flange size is greater than or equal to 2 in. or DN 50, a reducer will be used connecting the main pipe and the flange.
More options, choose from side connection size and pressure rating table, page 15

Example: User has no special requirement for the vent and drain, and just want the simplest Level gauge for their 1 in. 300# process connection
LMG200.1. R13.X // 0.86.1000mm

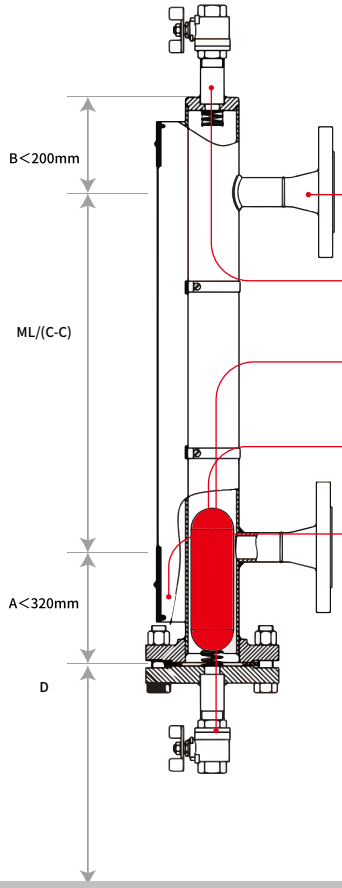
Optional documents (the same below)
If the customer also needs services or documents such as drawing for approval, NDE, water pressure testing, PMI, etc., please refer to item 12 on page 17, the documents.
Example: The customer also requires the drawing for approval and the EN 10204 (MTR) 3.1 certificate:
Result: LMG200.1. R13.X.D.R // 0.86.1000mm

Nameplate Example (the same below)



Quick Mode 2—Threaded valve for vent and/or drain

Vent and (or) drain with threaded Valves or sealed with plug



Example code

LMG200.2. R23.VS5.VS5.X // 0.86. 1000mm

LMG200	Product name
2	Quick mode 2
R23	Side connection 2in 300#
VS5	Vent valve
VS5	Drain valve
S.G.	Specific gravity, for unique float design
ML	Measuring range
X	Not with level transmitters or switches

Go to next page for side connection and valve code

Ground
Remind users to pay attention to distance D and whether there is a risk of interference with the ground

- Standard : ASME B31.3
- Wetted Material: 316/316L
- Temperature：-20°C ~130°C
- Pressure： Full vacuum~40 bar
- S.G>=0.45~1.2
- Indicator：316L frame，Vacuumed PC tube ，
- Chamber: 2” SCH10
- 316L frame marked in meter/centimeter with 1 cm divisions, white and red MBG
- Vent: End cap with valve or plug
- Drain: WN RF flange and blind flange with valve or plug

Example： User only wants a ½ in. drain valve, no special requirement of the vent, and 2 in. 300# reducing flange is good for the tank’s process connection. Max/design pressure 3Mpa

LMG200.2. R23.P053.VS5.X // 0.86. 1000mm

Note
Considering that the user's pressure exceeded 2.5Mpa, a gate valve with higher pressure resistance was selected here

Quick code 2 format： LMG200.2. Side connection. Vent. Drain. X //S.G.= . ML=

Side connection: Raised face weld neck flange

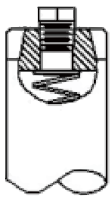
Standard	Size	Rating	Code
ASME B16.5	1 in.	150#	R11
		300#	R13
	2 in Reducing*	150#	R21
		300#	R23
EN1092	DN20	PN16	RBC
		PN25	RBD
		PN40	RBE
	DN25	PN16	RCC
		PN25	RCD
		PN40	RCE
	DN50 Reducing*	PN16	RFC
		PN25	RFD
		PN40	RFE

*When flange size is greater than or equal to 2 in. or DN 50, a reducer will be used connecting the main pipe and the flange.
More options, choose from side connection size and pressure rating table, page 15.

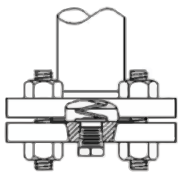
Vent and Drain

Style	Size	Code
Ball Valve (316L, Cast) ≤ 150# / PN25	½ in.	VR5
	¾ in.	VR7
Gate Valve (316L, Forged) ≥ 300# / PN40	½ in.	VS5
	¾ in.	VS7
No valve*, sealed with NPT plug	½ in.	P05
	¾ in”	P07

*If NO value is required, the default style is as below picture:
Note: At least one valve needs to be selected



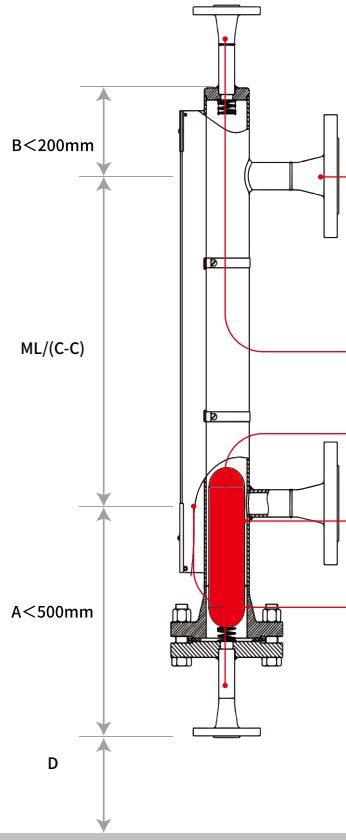
Vent



Drain

Quick Mode 3 –Flanged valve for vent and / or drain

Vent and (or) drain with flange connection, or flanged valves, or directly sealed with plugs



Example code

LMG 20 0. 3 . R 1 3 . R 53 . R 53 // S. G .=0. 8 6, ML=10 0 0mm

LMG200	Product name
3	Quick mode 3
R13	side connection (1 in. 300#)
R53	Vent (1/2 in. 300# flange)
R53	Drain (1/2 in. 300# flange)
S.G.	Specific gravity, for unique float design
ML	Measuring range
X	Not with level transmitters or switches

Go to next page for side connection and valve code

Ground
Remind users to pay attention to distance D and whether there is a risk of interference with the ground.

•Standard : ASME B31.3
•Wetted Material: 316/316L
•Temperature：-20°C to 130°C
•Pressure： Full vacuum~40 bar
•S.G>=0.45 to 1.2
•Indicator：316L frame，Vacuumed PC tube ，
•Chamber: 2” SCH10
•316L frame marked in meter/centimeter with 1 cm divisions, white and red MBG
• Vent: End cap with WN RF vent flange or flange valve or plug
•Drain: WN RF flange and blind flange with WN RF drain flange or flange valve or plug

Example:
The customer needs flanged valves for both vent and drain, and they already have valves with 1/2 in. 300 # flange and don’t need ABB to provide. The side connections are 1 in. 300 #, and the center to center distance is 1 meter, the specific gravity is 0.86.and the pressure is 3 Mpa.

Result: LMG200.3. R13. R53. R53.X //0.86. 1000mm

If the customer requires ABB to recommend and provide valves, forged gate valves is recommended (Cast ball valves are <=150# / PN25). The code changes are as follows
LMG200.3. R13.VS5.VS5.X //0.86. 1000mm

Note:
At least one valve needs to be selected

Quick code 3 format： LMG200. 3. side connection. Vent. Drain. X //S.G.= ML=

Side connection: Raised face weld neck flange

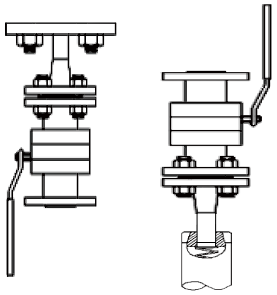
Standard	Size	Rating	Code
ASME B16.5	1 in.	150#	R11
		300#	R13
	2 in Reducing*	150#	R21
		300#	R23
EN1092	DN20	PN16	RBC
		PN25	RBD
		PN40	RBE
	DN25	PN16	RCC
		PN25	RCD
		PN40	RCE
	DN50 Reducing*	PN16	RFC
		PN25	RFD
		PN40	RFE

*When flange size is greater than or equal to 2 in. or DN 50, a reducer will be used connecting the main pipe and the flange.
More options, Choose from side connection size and pressure rating table, page 15

Vent and Drain

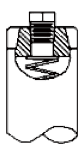
Style	Size	Code
No valve, flange only	½ in	R51
	¾ in	R71
	½ in	R53
	¾ in	R73
Ball Valve (316L, Cast)* ≤ 150# / PN25	½ in.	VR5
	¾ in.	VR7
Gate Valve (316L, Forged)* ≥ 300# / PN40	½ in.	VS5
	¾ in.	VS7
No valve**, sealed with NPT plug	½ in.	P05
	¾ in.	P07

*Flanged valve for vent and drain

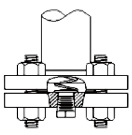


Vent Drain

**If NO flange valve is required, the default style is as below:



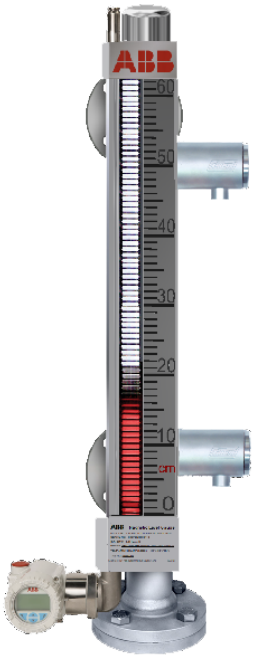
Vent



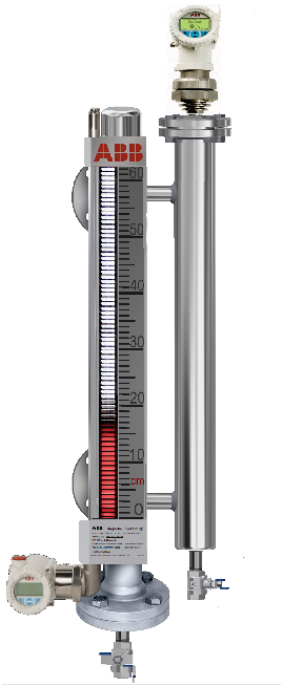
Drain

Configuration Table- Expert Mode

If the quick modes 1, 2, and 3 fail to meet the customer's requirements, the following expert modes offer you more possibilities for selection. To successfully complete the 14 items in the selection table, you need to have a sufficient understanding of the product structure and each of the customer's requirements.



Side mount with Magnetostrictive transmitter and switches



Dual chamber system with magnetostrictive transmitter and Guided wave radar



Cryogenic with vacuum jacket

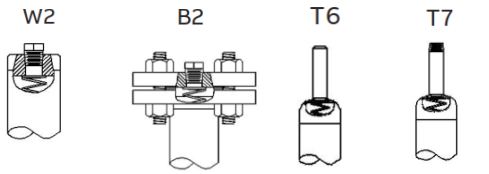


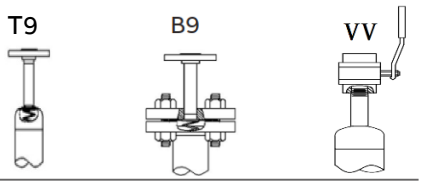
Top Mount

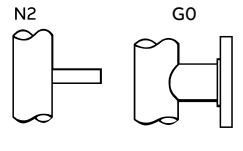
Side mounted LMG200 code example: LMG200.A.S1.S6.W2.G0. DV. P05. R21.VR5.CR.X. F // 0.86, 1000mm

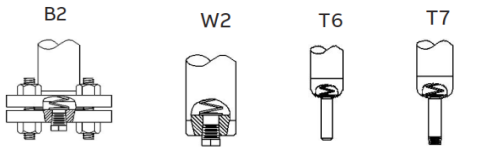
LMG200	Code	
1 Mode	1	Quick mode 1: ASME B31.3, 316/316L, no vent and drain valves, directly turn to page 6 for quick codes selection
	2	Quick mode 2: ASME B31.3, 316/316L, optional threaded valves for vent and drain, directly turn to page 8 for quick codes selection
	3	Quick mode 3: ASME B31.3, 316L, optional flange valves for vent and drain, directly turn to page 10 for quick codes selection
	A	Standard mode A: ASME B31.3
	P	Standard mode P: ASME 31.3 + PED, call
	G	Standard mode G*: ABB essential design ---mature design for general industry or OEM purpose
	Note*	**Mode G is compact design with customized flange covers and pipes (side connections to customers' equipment are standard as required), the strength calculation had been done by ABB, and the reliability has been confirmed through extensive installation**
2 Application type	S1	Standard side mount (-20℃ to 130℃)
	S2	Advanced side mount (-20℃ to 191℃)
	C1	Standard cryogenic side mount – vacuum jacket for -50℃ to 80℃ (picture)
	C2	Advanced cryogenic side mount – vacuum jacket for -100℃ to 80℃ (picture)*
	D1	Standard dual chamber system for redundancy control (picture) (-20℃ to 130℃), drawing
	D2	Advanced dual chamber system for redundancy control (picture) (-20℃ to 191℃), drawing
	T1	Standard top mount (-20℃ to 130℃)
	T2	Advanced top mount (-20℃ to 191℃)
	Tips	***For strong/safe coupling between indicator and the float, Vacuum jacket, as insulation, could not be too thick for lower temperature, for temperature down to -196 ℃, check KM26 series with thicker glass foam insulation and indicator with frost extension (prevents ice build–up from blocking a direct view to the indicator).**
3 Material	S4	304SS
	S6	316/316L
	F4	PTFE lining with 304 SS, PTFE jacket float (-20℃ to 130℃ , 0.1 to 20 bar; or -20℃ to 80℃ , vacuum to 20 bar)*
	F6	P PTFE lining with 316L , PTFE jacket float (-20℃ to 130℃ , 0.1 to 20 bar; or -20℃ to 80℃ , vacuum to 20 bar)*
	P1	PP chamber and float (-14 to 120 ℃), Max. pressure=6 bar, Max. ML=5m*
	P2	UPVC chamber and PPR float (-20 to 60℃) , Max. pressure=6 bar, Max. ML=5m*
	P3	PVDF chamber and float, -20 to 130℃, Max. pressure=6 bar, Max. ML= 3m*
	***Note**	***For F4, F6, P1, P2, P3 the side/top/bottom connections style are customized, consult ABB if you need detailed information.**

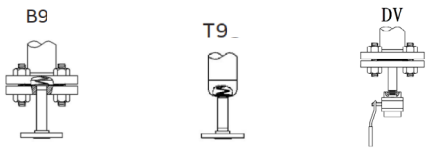
4 Top vent style	W2	Welded end cap + plug
	B2	Blind flange with athread + plug (No thread for F4 and F6 PTFE-lined types)
	B9	Blind flange with pipe nipple + flange (with blind cover)
	T6	Welded end cap + Pipe nipple for butt welding
	T7	Welded end cap + Pipe nipple with MNPT thread
	T9	Welded end cap + pipe nipple with flange
	VV	Vent valve, thread type
	VF	Vent valve, flange type
	X	Standard cap for top mount
	Z	customize
	Note	**For the types of vent flanges and flanges paired with blind flanges, refer to the type of side flanges in item 5: F0 corresponds to butt-weld flanges (WN); G0/H0 corresponds to slip-on flanges (SO)** **F4 and F6 PTFE-lined types can only be the type of flanges or flange valves at the top and bottom**
5 Side connection style	G0	Plate flange (from blind flange) with pipe nipple （ASMEB16.5 or EN1092 ）*
	F0	Weld neck flange with pipe nipple（ASMEB16.5 or EN1092 ）*
	H0	Plate flange with pipe nipple (HG/T 20615 or 20592) *
	N2	Branch nipple for butt welding
	P	For P1, P2, P3 plastic and F4, F6 PTFE lining option, the side connection type are customized mature design
	X	No side port for top mount
	Z	customize
	Note*	*** The exact standard will be confirmed after selecting flange size/rating in item 8. For example: 150#,300# flanges are for ASMEB16.5, DN/PN flanges are for EN1092** **If flange size is ≥ DN50/2 in., reducing flange will be needed.** **Most customers choose large size flange for stronger/safe installation, while if customers also consider larger flux for high viscosity application, check KM26 series, the extruded outlet design.**
6 Bottom drain style	W2	Welded end cap + plug
	B2	Blind flange with thread + plug (No thread for F4 and F6 PTFE-lined types)*
	B9	Blind flange with pipe nipple + flange*
	B6	Blind flange + Pipe Nipple, for Butt Welding
	B7	Blind flange + Pipe Nipple, MNPT thread
	T6	Welded end cap + Pipe nipple, for butt welding
	T7	Welded end cap + Pipe nipple, with MNPT thread
	T9	Welded end cap with pipe nipple+ flange
	DV	Drain valves, thread type
	DF	Drain valves, flange type
	BT	Flange for top mount
	Z	Customize
	***Note**	***The type of the drain flange, blind flange and mating flange, are the same as the type of the side flanges in item 5: F0 corresponds to the butt-weld flange (WN); G0/H0 corresponds to slip on flanges (SO)** **F4 and F6 PTFE-lined types can only choose flange type vent/drain**











7 Top vent size and pressure rating	P05	½ in. Plug
	P07	¾ in. Plug
	R51	½ in. // ANSI / ASME Class 150 // RF Flange
	R53	½ in. // ANSI / ASME Class 300 //RF Flange
	R56	½ in. // ANSI / ASME Class 600 //RF Flange
	R71	¾ in. // ANSI / ASME Class 150 //RF Flange
	R73	¾ in. in. // ANSI / ASME Class 300 //RF Flange
	R76	¾ in. in. // ANSI / ASME Class 600 //RF Flange
	N05	½ in. Nipple
	N07	¾ in. Nipple
	VR5	½ in. cast ball valve, -20℃ ~191℃ (≤ 150#/PN25)
	VS5	½ in. forged gate valve
	VR7	¾ in. cast ball valve, -20℃ ~191℃ (≤ 150#/PN25)
	VS7	¾ in. forged gate valve
	Z	Customize
8 Side connection size and pressure rating (Flange standard, refer to item 5, side connection style)	RBC	DN20 PN10 RF flange
	RBD	DN20 PN25 RF flange
	RBE	DN20 PN40 RF flange
	RCC	DN25 PN10 RF flange
	RCD	DN25 PN25 RF flange
	RCE	DN25 PN40 RF flange
	REC	DN40 PN10 RF flange
	RED	DN40 PN25 RF flange
	REE	DN40 PN40 RF flange
	RFC	DN50 PN10 RF flange
	RFD	DN50 PN25 RF flange
	RFE	DN50 PN25 RF flange
	R51	½ in. 150# RF flange
	R53	½ in. 300# RF flange

8 Side connection size and pressure rating (Flange standard, refer to item 5, side connection style)	R56	½ in. 600# RF flange
	R71	¾ in. 150# RF flange
	R73	¾in. 300# RF flange
	R76	¾ in. 600# RF flange
	R11	1in. 150# RF flange
	R13	1in. 300# RF flange
	R16	1 in. 600# RF flange
	R21	2 in. 150# RF flange
	R23	2 in. 300# RF flange
	R26	2 in. 600# RF flange
	N71	¾ in. SCH40 pipe nipple for 150#/PN25 flange
	N73	¾ in. SCH40 pipe nipple for 300#/PN40 flange
	N76	¾ in. SCH40 pipe nipple for 600#/PN100 flange
	N11	1 in SCH40 pipe nipple for 150#/PN25 flange
	N13	1 in SCH40 pipe nipple for 300#/PN25 flange
	N16	1 in SCH40 pipe nipple for 600#/PN25 flange
	X	No side connection / top mount
	Z	customize
	Note	**Currently, for ASME B31.3 or PED requirement with ASME standard material, the max. design rating is 300#/PN40 , consult ABB or check KM26 series for higher rating**
9 Bottom drain size and pressure rating	P05	½ in. plug
	P07	¾ in. plug
	R51	½ in. // ANSI / ASME Class 150 // RF Flange
	R53	½ in.// ANSI / ASME Class 300 // RF Flange
	R56	½ in. // ANSI / ASME Class 600 // RF Flange
	R71	¾ in. // ANSI / ASME Class 150 // RF Flange
	R73	¾ in. // ANSI / ASME Class 300 // RF Flange
	R76	¾ in. // ANSI / ASME Class 600 // RF Flange
	N05	½ in. socket
	N07	¾ in. socket
	VR5	½ in. cast ball valve, -20°C to 191°C (≤ 150#/PN25)
	VS5	½ in. forged gate valve
	VR7	¾ in. cast ball valve, -20°C to 191°C (≤ 150#/PN25)
	VS7	¾ in. forged gate valve
	Z	Customize
	Note	**Check if the room above floor is enough for installation**

10 Indicator scale / ruler*	BR	316L frame marked in ft / inch with ½ in. divisions, white and red MBG
	CR	316L frame marked in meter/centimeter with 1 cm divisions, white and red MBG
	DR	316L frame marked in running inches with ½ in. divisions, white and red MBG
	ER	316L frame marked in running inches with ⅛ in. divisions, white and red MBG
	FR	316L frame,316L dual scale, white and red MBG, customized
	BY	316L frame marked in ft / inches with ½ in. divisions, yellow and black MBG
	CY	316L frame marked in meter/centimeter with 1 cm divisions, yellow and black MBG
	DY	316L frame marked in running inches with ½ in. divisions, yellow and black MBG
	EY	316L frame marked in running inches with ⅛ in. divisions, yellow and black MBG
	FY	316L frame 316L dual scale, yellow and black MBG, customized
	Z	Customize
	Note*	**The unit system of the Measuring Range (mm or in.) should be the same as the selected scale**
	Tips	**For permanent anti-aging GLASS melt sealed indicator (10 years+), check ABB KM26 Series**
11 Special Applications	X	No special requirement
	S	Mount LMS Magnetic level switches from ABB (Need order LMS separately)
	T	Mount level transmitters from ABB (need order LMT or LWT level transmitters separately)
	Z	Special (interface measurement, heat tracing, steam tracing, aerification, high viscosity, etc.)
12 Documents	D	Drawing for approval
	R	EN 10204 (MTR) 3.1 certificate
	M	EN 10204 (MTR) 3.1 certificate and NACE MR 0175
	N	EN 10204 (MTR) 3.1 certificate and NACE MR 0103
	F	Function test report （Hydrostatic test*， float passing test, flipper rotation test, certificate of qualification, certificate of ANSI ASME compliance if applicable ）
	C	Radiographic examination on all pressure containing butt welds / and all other pressure containing welds are liquid dye penetrant tested (final pass only)
	P	PMI without carbon (all wet pressure containing parts,10% welds), not including the float and valve
	Q	PMI with carbon (all wet pressure containing parts,10% welds), not including the float and valve
	Note*	**A10 min. for ASMEB31.3 design, 5 min for ABB essential design （code G）**
13 Specific gravity *	**Note***	**For interface or dual level, Choose “Z” in item 11 for customization.**
	Tips	**For cases where the density varies greatly, recommend KM26 series for maximum accuracy with 75 grams minimum upward buoyant force (prevent sinking) If the S.G. difference between upper and lower layers is smaller than 0.15, check KM26 series for higher accuracy and stability**
14 Measuring length (center to center distance between side connections) *	**Note***	**Check with ABB if the center to center (C-C) distance between side flanges is different than the ML. Choose “Z” in item 11 for customization. The unit system of the Measuring Range (mm or in.) should be the same as the selected scale**
	Tips	**Lengths over 4m: Suggest support brackets to minimize pipe flex Lengths over 8m: Suggest sectionalizing (flanged) or check KM26S series for larger ML**

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