



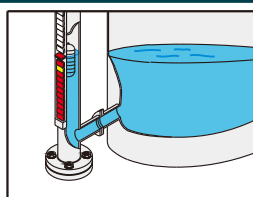
LEVEL GAUGES MAGNETIC FLOAT TYPE

562 ~ 564

FEATURES

- Anticorrosive materials
- Robust structure lasts longer
- Highly accurate ($\pm 2\text{mm}$ at sp. Gr. 1.0), reliable and safe
- Hi-heat and hi-pressure capability
- High safety: Indicator completely insulated from liquid while detecting
- Short float which allows long measuring range, and minimises the influence of specific gravity
- Visible range (VL) same as the L-length of C-C
- Tricolor flag indicator for high visibility readings
- Level switches or transmitter can be installed (optional)

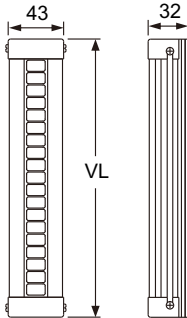
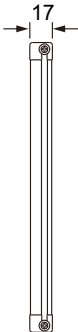
OPERATION PRINCIPLE



This is a type of Level Gauge which utilizes the induction between the magnet within the float and the indicator to measure the liquid level.
The indicator is completely insulated from the liquid while detecting.
This type of level gauge is normally used in various vessels and tanks for water treatment plants, chemical plants and dyeing factories for liquid level measurement.

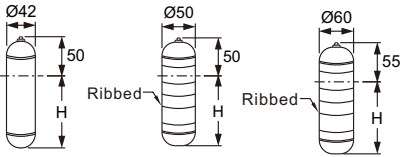
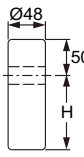
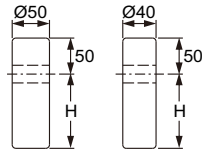


SPECIFICATIONS AND MODEL SELECTION OF INDICATOR

ITEMS		CODE	SPECIFICATIONS			
① MODEL & MATERIAL OF INDICATOR FLAGS : TPX resin /Crack-free at 140°C all the year around Aluminum alloy /-200~400°C available Titanium /-200~400°C available and Anticorrosive required FLAGS INTERVAL : 10mm FLAGS WIDTH : 15mm WINDOW : Transparent TPX resin is the standard part. If the temperature higher than the limit of TPX material, we will change with tempered glass. INSULATION : The indicator housing can be added the cooling jacket and/or blanket for high or low temperature process system WINDOW WIDTH : 18mm PROTECTION : IP 65 or special specified VISIBLE ORIENTATION : 270° adjustable at field site		562	563		564	
		Aluminum alloy	304SS		316LSS	
						
		STRUCTURE : Two nut furrows on each sides with cooling air vents and /or insulation blanket of high / low temperature resistance	STRUCTURE : Two ribs on each sides			
	565	To be specified				
② FLAGS OF GRAPHIC INDICATOR TRI-COLOR : White color indicates the level is empty ; Red color indicates it contains liquid. Distance of each yellow / green(option) flag is 10cm length. BI-COLOR : The primary colors indicates the level is empty ; Red color indicates it contains liquid.	A	TPX resin moulding / Tri-color (Red , White , Yellow)				
	B	TPX resin moulding / Tri-color (Red , White , Green)				
	C	Aluminum alloy / Bi-color (Red , Aluminized)				
	D	Titanium / Bi-color (Red , the primary color)				
	E	Tri-color with night luminescent (TPX resin material)				
	F	Bi-color with night luminescent (Aluminum alloy material)				
	G	Bi-color with night luminescent (Titanium material)				
	H	To be specified				
③ OPERATING TEMPERATURE (With insulation structure / blanket for high or low temperature process system to meet your requirements)	-0	-10°C~140°C	-1	≥141°C ≤200°C	-2	≥201°C ≤300°C
	-3	≥301°C ≤400°C	-4	-11°C~-70°C	-5	-71°C~-120°C
	-6	-121°C~-195°C	-7	To be specified		
④ MEASURING RANGE／ VL-LENGTH	-300 } -5800	300 mm } 5800 mm				
	A	Not required				
⑤ EXTRA TREATMENT	B	Finishing Coating / Painting				
	C	Sealing by heat shrinking sleeve				
	D	To be specified				

5 LEVEL

FLOAT STYLE

STYLE		F560A	F560B	F560C	F560D	F560E	F560F	F560G
MATERIAL		316SS	316LSS	Titanium	PP	PVC	FRP	PVDF
DIMENSIONS								
AVAILABLE SP. GR.	CODE:B(1-1/2"Chamber)	≥ 0.8						≥ 0.7
	CODE:C(2"Chamber)	≥ 0.6		≥ 0.5	≥ 0.50		≥ 0.55	
	CODE:D(2½"Chamber)	≥ 0.5		≥ 0.4	≥ 0.4		≥ 0.4	
OPERATING TEMP.		Max.400 °C			Max.80 °C	Max.50 °C	Max.110 °C	Max.120 °C
OPERATING PRESSURE		≤0.4MPa	≤1MPa (std.) , 10MPa max.		≤0.6 MPa Max.			
MAGNETIC FORCE		900 ± 10% Gauss for standard version ,or to be determined as required.						
MAGNETIC SYSTEM		S-pole , 360° annular magnetic band conductivity for standard version						
H-IMMERSION LENGTH		The length depending on Sp. Gr. Of liquid and pressure rating						
OPTIONAL		Diameter ; H-length ; Total length ; magnetic system / force ; Extra surface treatment						

SP. GR. OF THE LIQUID & "H" LENGTH (IMMERSED DEPTH) || TABLE 1

CODE	SP. GR.	F560A B-CHAMBER	F560A / B -FLOAT (C/D Chamber)					F560C FLOAT	F560D/E FLOAT	F560F/G FLOAT	F560G B-CHAMBER
			1.0 Mpa	2.0 MPa	3.0 MPa	4.0 MPa	6.0 MPa				
0	1.0±0.05	165 mm	130 mm	130 mm	180 mm	230 mm	330 mm	110 mm	115 mm	120 mm	150 mm
1	0.9±0.05	180 mm	180 mm	230 mm	230 mm	330 mm	430 mm	130 mm	140 mm	150 mm	170 mm
2	0.8±0.05	200 mm	180 mm	230 mm	330 mm	430 mm	530 mm	130 mm	170 mm	180 mm	200 mm
3	0.7±0.05	—	230 mm	330 mm	430 mm	—	—	180 mm	200 mm	210 mm	220 mm
4	0.6±0.05	—	330 mm	—	—	—	—	230 mm	230 mm	240 mm	—
5	0.5 0.54	—	480 mm	—	—	—	—	280 mm	270 mm	270 mm	—
6	1.06	165 mm	130 mm	130 mm	180 mm	230 mm	330 mm	110 mm	110 mm	130 mm	150 mm

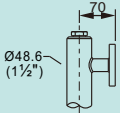
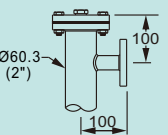
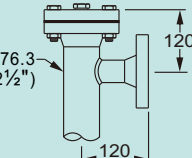
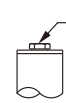
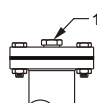
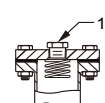
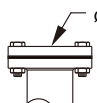
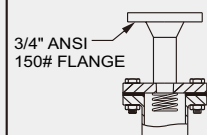
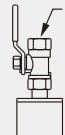
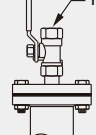
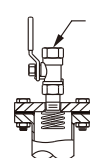
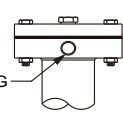
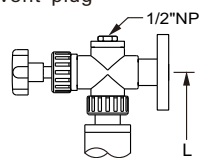
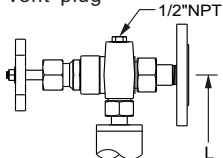
Note: ① If the chamber end bottom has a cushion spring, the length "H" should plus 20mm.

② The length "H" of jacket chamber should plus 50mm.

MODEL SELECTION OF FLOAT

ITEMS	CODE	SPECIFICATIONS	
① MATERIAL	F560A	316SS with ribs structure	F560B 316LSS with ribs structure
	F560C	Titanium with ribs structure	F560D PP
	F560E	PVC	F560F FRP
	F560G	PVDF	F560H To be specified
② SP.GR. OF THE LIQUID	—0	1.0±0.05	—1 0.9±0.05
	—4	0.6±0.05	—5 0.5~0.54
	—8	≤0.5 (Only 2½" chamber available)	—9 Wide applicable SP. GR. range or special specified
③ OPERATING TEMPERATURE	0	-10°C~140°C	1 ≥141°C ≤200°C
	4	-11°C~-70°C	5 -71°C~-120°C
④ PRESSURE RATING (LEAKY TEST OF FLOAT OR DESIGN BASIS OF MAX. PRESSURE)	0	FV~0.6MPa (Full vacuum~6barG / 6kg/cm2G / 85PSIG)	
	1	≤ 1.0MPa (10barG / 10kg/cm2G / 140PSIG)	
	9	≤ 9.0MPa (90barG / 90kg/cm2G / 1200PSIG)	
	X	To be specified	
⑤ MAGNETIC FORCE	—A	For general purpose (S'td) / 900 ± 100G	—B High tesla type / 1500 ± 100G
	—C	To be specified	
⑥ MAGNETIC SYSTEM	AS	S-pole, 360° annular magnetic band conductivity (standard)	
	AN	N-pole, 360° annular magnetic band conductivity	
	BS	S-pole, 360° annular magnetic dots conductivity	
	BN	N-pole, 360° annular magnetic dots conductivity	
	SN	S/N-pole, disposed at the upper / lower	
	NS	N/S-pole, disposed at the upper / lower	
⑦ DIAMETER OF FLOAT	—B	Ø42mm, For 1½" (≡Ø48mm) float chamber	—C Ø50mm, For 2" (≡Ø60mm) float chamber
	—D	Ø60mm, For 2½" (≡Ø76mm) float chamber	—X To be specified

MODEL SELECTIONS

ITEMS	CODE	SPECIFICATIONS													
① MODEL AND MATERIAL OF INDICATOR HOUSING	562	With two nut furrows on both sides of aluminum alloy housing													
	563	With two ribs on both sides of 304 stainless steel housing													
	564	With two ribs on both sides of 316L stainless steel housing													
	565	Float chamber only (without indicator version)													
	566	To be specified													
② FLAG MATERIAL AND COLOR	A	TPX resin moulding / Tri-color (Red , White , Yellow)													
	B	TPX resin moulding / Tri-color (Red , White , Green)													
	C	Aluminum alloy / Bi-color (Red , Aluminized)													
	D	Titanium / Bi-color (Red , the primary color)													
	E	Tri-color with night luminescent (TPX resin material)													
	F	Bi-color with night luminescent (Aluminum alloy material)													
	G	Bi-color with night luminescent (Titanium material)													
	H	To be specified													
	N	No indicator version													
③ OPERATING TEMP. (With insulation structure / blanket for high or low temperature process system to meet your requirements)	-0	-10℃~140℃		-1	≥141℃ ~ ≤200℃		-2	≥201℃~≤300℃							
	-3	≥301℃ ~ ≤400℃		-4	-11℃~-70℃		-5	-71℃~-120℃							
	-6	-121℃~-195℃		-7	To be specified										
④ SP.GR. OF THE LIQUID (SEE TABLE 1)	0	1.0±0.05	1	0.9±0.05	2	0.8±0.05	3	0.7±0.05							
	4	0.6±0.05	5	0.5~0.54	6	≥1.06		7	Interface						
	8	≤0.5 (Only 2½" chamber available)			9	Wide applicable SP. GR.range or special specified									
	X	Without float assembly													
⑤ CHAMBER MATERIAL / FLOAT STYLE	0	304SS (1.4301) / F560A-Float (316SS)			1	316SS (1.4571) / F560A-Float (316SS)									
	2	316LSS (1.4404) / F560B-Float (316LSS)			3	Polypropylene (PP) / F560D-Float (PP)									
	4	PVC / F560E-Float (PVC)			5	FRP with vinyl ester / F560F-Float (FRP)									
	6	PVDF / F560G-Float (PVDF)			7	Metallic chamber / F560C-Float (Titanium)									
	8	316SS with PTFE (PFA) Lined			9	To be specified									
	⑥ PRESSURE RATING (LEAKY TEST OF FLOAT / CHAMBER OR DESIGN BASIS OF MAX. PRESSURE)	0	FV~0.6 MPa (Full vacuum ~ 6barG / 6kg/cm2G / 85PSIG)												
1		≤ 1.0MPa (10barG / 10kg/cm2G / 140PSIG)													
9		≤ 9.0MPa (90barG / 90kg/cm2G / 1200PSIG)													
X		To be specified													
⑦ CHAMBER END TOP ■ FLAT TOP END  ■ FLANGE TOP END (St'd)  ■ FLANGE TOP END (Option) 	-A	Welding cap 		-B	Flat top with vent plug 1/2"NPT 		-C	Flange with vent plug 1/2"NPT 		-D	Flange with vent plug and cushion spring 1/2"NPT 		-E	Welding nozzle Ø27 	
	-F	Union top with vent plug 1/2"NPT 		-G	Vent flange with short pipe and flange 3/4" ANSI 150# FLANGE 		-H	Vent flange with short pipe flange and cushion spring 3/4" ANSI 150# FLANGE 		-J	Flat top with vent valve 1/2"NPT 		-K	Flange with vent valve 1/2"NPT 	
	-L	Flange with vent valve and cushion spring 1/2"NPT 		-M	Flange with tracing connection (For Full-jacket chamber) TRACING CONN. 		-N	Cross valve with vent plug 1/2"NPT 		-P	Offset valve with vent plug 1/2"NPT 		-Q	To be specified	

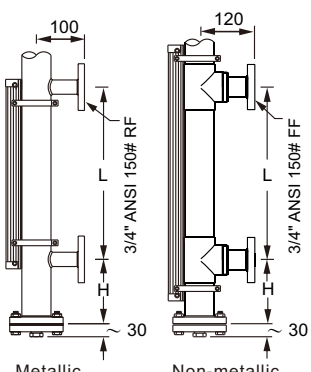
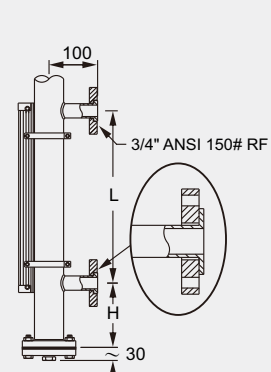
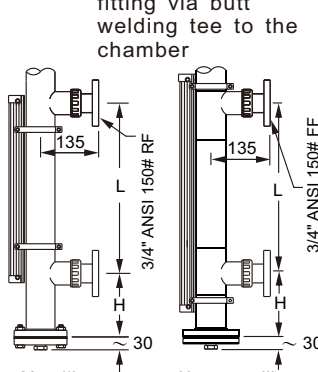
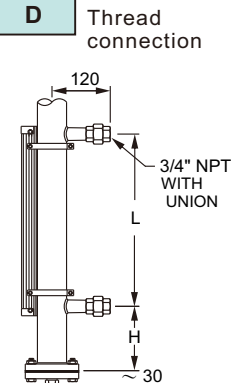
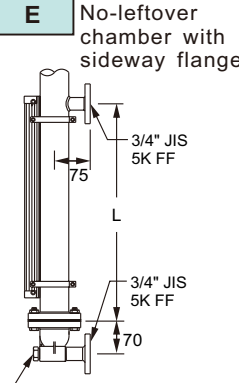
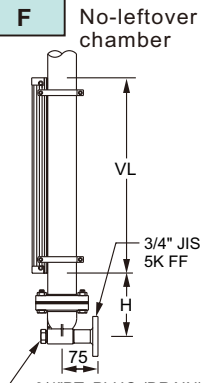
LEVEL 5

MODEL SELECTIONS

⑧ CHAMBER STYLE AND STRUCTURE

Notes :

- When the pressure rating of process connection is equal to or higher than 4MPa or 600lb, the slip-on type forged flange should be used.
- The standard length of neck with process fitting as below figure, but can be specified to meet your requirements.

CODE		STANDARD SPECIFICATIONS FOR C-CHAMBER			
A		B		C	
Flange connection		Lapped joint flange		Flange with union fitting via butt welding tee to the chamber	
					
Metallic				Metallic	
Non-metallic				Non-metallic	
D		E		F	
Thread connection		No-leaveover chamber with sideways flange		No-leaveover chamber	
					

⑨ CHAMBER END BOTTOM

A	Standard	B	Drain valve	C	Cushion spring
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⑩ PROCESS CONNECTION

D	Drain valve and cushion spring	E	To be specified
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⑪ MEASURING RANGE / L-LENGTH

-030	300 mm
 }	}
-580	5800 mm

⑫ CHAMBER DIAMETER

CODE	METALLIC CHAMBER		NONMETALLIC CHAMBER	
	ODØ mm / Inch	Sp. Gr.	ODØ mm / PVDF / Inch	Sp. Gr.
B	48.6mm / 1 1/2"	≥ 0.8	48.3mm / 50mm / 1 1/2"	≥ 0.7
C	60.3mm / 2"	≥ 0.5	60.3mm / 63mm / 2"	≥ 0.5
D	76.3mm / 2 1/2"	≥ 0.4	73.0mm / 75mm / 2 1/2"	≥ 0.4
E	To be specified			

⑬

EXTRA TREATMENT

/A	Not required (For general purpose)
/B	High Purity Cleaning (HPC)
/C	Electro-Polishing (EP)
/D	Mechanical Polishing (MP)
/E	Mechanical Polishing & Electro-Polishing (MPEP)
/F	Finishing Coating / Painting
/G	To be specified

MODEL SELECTIONS (OPTIONAL)

■ VALVE

		
ITEMS	CODE	SPECIFICATIONS
① MODEL	940A	GATE VALVE
	940B	BALL VALVE
	940C	CROSS VALVE
	940G	GLOBE VALVE
	940N	NEEDLE VALVE W/ HANDWHEEL
	940T	GLOBE VALVE W/ BELLOWS
	940F	OFFSET GAUGE VALVE
② CONNECTION	940X	To be specified
	—0	PT / NPT Thread
	—1	ANSI 150# Flange
	—2	JIS 10K Flange
③ BODY MATERIAL	—3	To be specified
	0	304SS / CF8 / 1.4301
	1	316SS / CF8M / 1.4571
	2	PVC
	3	PP
	4	PVDF
	5	Carbon steel
④ MATERIAL OF WET PARTS / SEAT	6	To be specified
	0	Marker standard
	1	To be specified
⑤ VALVE SIZE	—015	15A (1/2")
	—080	80A (3")
	—XXX	To be specified
⑥ JACKET STRUCTURE	/ A	Not required
	/ B	Semi-jacket
	/ C	Full-jacket
	/ D	To be specified

■ SCALE OF INDICATOR

ITEMS	CODE	SPECIFICATIONS
① MATERIAL	A560-0	Maker's st'd
	A560-1	Acrylic resin
	A560-2	304SS
	A560-3	316SS
	A560-4	ABS resin
	A560-5	To be specified
② SCALE WIDTH	0	22mm
	1	40mm
	2	To be specified
③ MEASURE UNIT	0	mm
	1	cm
	2	Inch
	3	To be specified
④ MARKING COLOR	—A	Maker's st'd
	—B	Red
	—C	Black
	—D	To be specified
⑤ PLATE COLOR	A	Maker's std
	B	White / S.S. coloration
	C	Yellow
	D	To be specified
⑥ MARKING METHOD	A	Printed
	B	Engraved
	C	Format printing
	D	To be specified
⑦ TOTAL LENGTH	A	To fit flag indicator
	B	To be specified
⑧ MEASURING LENGTH	—030	300 mm
	—580	5800 mm

The specifications are subject to change without prior notice.

■ JUNCTION BOX



ITEMS	CODE	SPECIFICATIONS
① MODEL	B560A	PC housing ,IP67
	B560B	Aluminum housing ,IP67
	B560C	316SS housing ,IP67
	B560D	To be specified
② CONNECTION OF CABLE ENTRY	—0	M12x1.25 (Standard) (suitable for 5~Φ6 diameter cable)
	—1	To be specified
③ QUANTITY OF INLET CONDUIT	1	1 -cable entry
	6	6 -cable entries
④ CABLE GLAND FOR INLET	0	Not required
	1	With AG-12 (IP68)
	2	To be specified
⑤ CONNECTION OF OUTLET CONDUIT	—A	M16x1.5 (Standard)
	—B	To be specified
⑥ QUANTITY OF OUTLET CONDUIT	A	1-Cable entry (Standard)
	B	To be specified
⑦ CABLE GLAND FOR OUTLET	A	Not required
	B	With AG-16 (IP68)
	C	To be specified
⑧ MOUNTING CLAMP	A	Φ60 (2") / 304SS (St'd)
	B	To be specified

■ UNFREEZER

ITEMS	CODE	SPECIFICATIONS
① MATERIAL	U560A	WARMING TYPE
	U560B	TO BE SPECIFIED
② TEMP. CONTROL	—0	Fixed
	—1	Adjustable
	—2	To be specified
③ HEATER Q'TY	1	One heater device
	2	Two heater device
	3	To be specified
④ POWER SUPPLY	0	DC24V
	1	AC110V
⑤ ENCLOSURE (TERMINAL BOX)	2	AC220V
	3	To be specified
⑥ HOUSING MATERIAL	—A	IP66 (Standard)
	—B	Exd IIB T4
	—C	To be specified
⑦ CABLE ENTRIES	A	Aluminum alloy w/epoxy coating
	B	To be specified
	C	To be specified

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