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Technical Information
Float level gauge LT5

Tank gauging



Application

The Float Tank Gauge LT5 plays an important role in all areas of industry. Operation of LT11/12/14/16 in a wide variety of applications over many years has proven their reliability.

Common applications

- Petroleum products, such as crude oil, kerosene, diesel fuel, and heavy oil
- Cooking oils, such as vegetable oil, palm oil, seed oil, and animal oil
- Highly viscous liquids, such as asphalt
- Chemical products (for corrosive products and toxic vapors, a liquid seal pot can be used to achieve airtightness)
- Measurement of liquefied gas in spherical tank

Your benefits

- It is a mechanical level gauge that requires no electrical power.
- Reproducibility can be checked with a check handle.
- Direct tank-side reading allows tank contents to be checked quickly and easily.
- It can be installed on a wide variety of tanks, including cone roof tanks, floating roof tanks, covered floating roof tanks, and spherical tanks.
- It can also be used in conjunction with analog/digital transmitters to perform tank inventory management.

Endress+Hauser
People for Process Automation

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Document information

Symbols used

Safety symbols

DANGER
This symbol alerts you to a dangerous situation. Failure to avoid this situation will result in serious or fatal injury.

WARNING
This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in serious or fatal injury.

CAUTION
This symbol alerts you to a dangerous situation. Failure to avoid this situation can result in minor or medium injury.

NOTICE
This symbol contains information on procedures and other facts which do not result in personal injury.

Electrical symbols

Alternating current

Direct current and alternating current

Direct current

Ground connection

A grounded terminal which, as far as the operator is concerned, is grounded via a grounding system.

Protective earth (PE)

Ground terminals that must be connected to ground prior to establishing any other connections.

The ground terminals are located on the interior and exterior of the device:
- Interior ground terminal: protective earth is connected to the mains supply.
- Exterior ground terminal: device is connected to the plant grounding system.

Tool symbols

Phillips head screwdriver

Flat blade screwdriver

Torx screwdriver

Allen key

Open-ended wrench

Symbols for certain types of information and graphics

Permitted
Procedures, processes or actions that are permitted

Preferred
Procedures, processes or actions that are preferred

Forbidden
Procedures, processes or actions that are forbidden

Tip
Indicates additional information

Reference to documentation

Reference to graphic

▶
Notice or individual step to be observed

1., 2., 3.
Series of steps

Result of a step

Visual inspection

Operation via operating tool

Write-protected parameter

1, 2, 3, ...
Item numbers

A, B, C, ...
Views

Safety instructions
Observe the safety instructions contained in the associated Operating Instructions

Temperature resistance of the connection cables
Specifies the minimum value of the temperature resistance of the connection cables

Documentation

The following documents can be found in the Download area of our website (www.endress.com/downloads).

For an overview of the scope of the associated Technical Documentation, refer to the following: *W@M Device Viewer* (www.endress.com/deviceviewer): Enter the serial number from nameplate

Technical Information (TI)

Planning aid
The document contains all the technical data on the device and provides an overview of the accessories and other products that can be ordered for the device.

Brief Operating Instructions (KA)

Guide that takes you quickly to the 1st measured value
The Brief Operating Instructions contain all the essential information from incoming acceptance to initial commissioning.

Operating Instructions (BA)

The Operating Instructions contain all the information that is required in various phases of the life cycle of the device: from product identification, incoming acceptance and storage, to mounting, connection, operation and commissioning through to troubleshooting, maintenance and disposal.

Safety Instructions (XA)

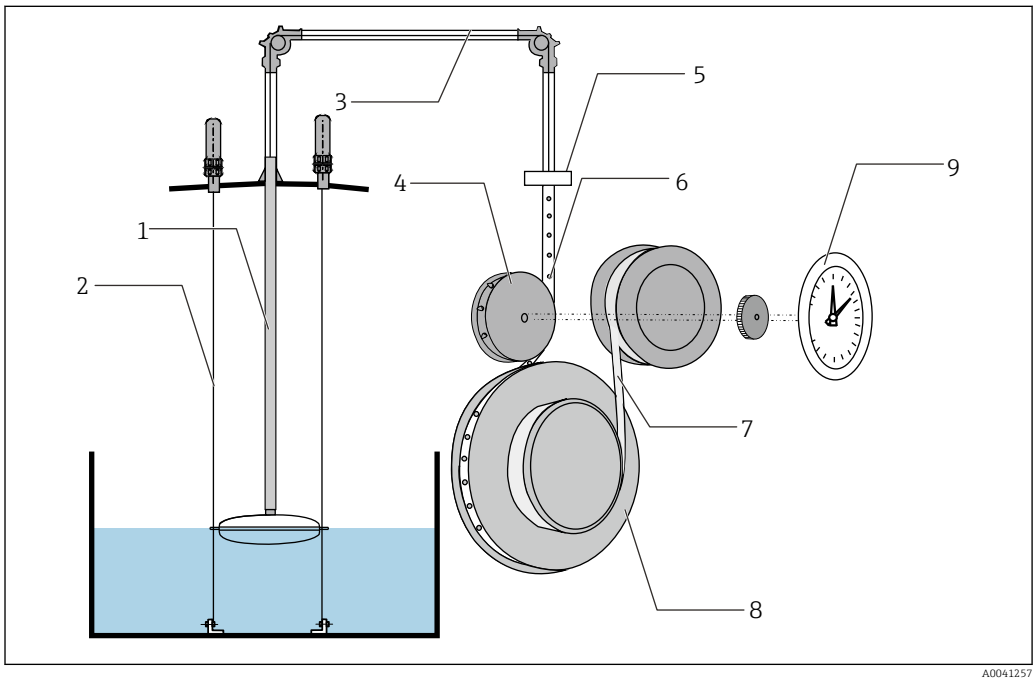
Depending on the approval, the following Safety Instructions (XA) are supplied with the device. They are an integral part of the Operating Instructions.

The nameplate indicates the Safety Instructions (XA) that are relevant to the device.

Function and system design

Operating principles

The liquid level detected by the float is transmitted to the gauge head through a measuring tape. This change in liquid level is converted to the sprocket's angle of rotation. The measuring tape has uniformly spaced small holes, and it indicates the liquid level by driving the gear mechanism in an extremely precise manner. The measuring tape is subsequently wound up by the tape drum. A conster is directly attached to the tape drum, constantly giving a certain amount of tension to the measuring tape. This ensures that the float and the measuring tape are always in equilibrium, and the amount of float travel associated with changes in the liquid level is continuously indicated.



1 *Operating principles*

1 *Measuring tape*
2 *Guide wire*
3 *Guide pipe*
4 *Sprocket*
5 *Gauge head connection*
6 *Measuring tape (with sprocket driving holes)*
7 *Conster*
8 *Tape drum*
9 *Scale*

Combination with an analog transmitter

AT1

- 4 to 20 mA output
- Max. 6 points alarm signal output

For details, refer to the technical information of AT1.

Combination with a digital transmitter

TMD1

- Two-wire transmission (V1 protocol) output
- 4 to 20 mA output
- Max. 8 points alarm signal output

For details, refer to the technical information of TMD1.

Input/Output

Measuring range

Spec.	Range
LT5	0 to 2.5, 5, 10, 16, 20, 30 m 0 to 60 ft, 100 ft

Accuracy

Spec.	Range
φ400 mm float	± 2 mm (0.08 in) (density limit 1 g/cm^3 measuring range10 m (32.80 ft))
φ140 mm float	± 30 mm (1.18 in) (density limit 1 g/cm^3 measuring range10 m (32.80 ft))

Installation

Measuring tape and wire lengths

The lengths of the measuring tape and wire are longer than the actual measurable lengths for piping purposes. The length of the measuring tape and wire will vary depending on the specifications. The table below shows the actual length for each selection option of specification code 070 (measuring tape), depending on the selection options for specification code 060 (measuring range). Note that the maximum measured value that can be displayed on a gauge head corresponds to the measuring ranges. Refer to the table to select the appropriate length accordingly.

1. Code 070 (Option 1): Measuring tape SUS316/CRT

060 measurement range		Length (total length)	Perforated tape (measurement length)	Non-perforated tape	Spare parts
1	2.5 m	13 m	7 m	6 m	56004412
2	5 m	13 m	7 m	6 m	56004412
3	10 m	24 m	12 m	12 m	017860-5302
4	16 m	45 m	22 m	23 m	017860-5304
5	20 m	45 m	22 m	23 m	017860-5304
6	30 m	65 m	32 m	33 m	017860-5305
F	60 ft	134.50 ft	69.89 ft	65.61 ft	Contact Endress+Hauser
H	100 ft	216.52 ft	108.26 ft	108.26 ft	Contact Endress+Hauser

(Example) If Option 1 of specification code 070 and Option 5 of specification code 060 (CRT: 20 m (65.62 ft)) are selected, the measuring tape will have a 22 m (72.18 ft) perforated portion, a 23 m (75.46 ft) non-perforated portion, and a total length of 45 m (147.63 ft).

2. Code 070 (Option 2): Measuring tape SUS316/tank-top mounting

060 measurement range		Length (total length)	Perforated tape (measurement length)	Non-perforated tape	Spare parts
1	2.5 m	7.15 m	7 m	0.15 m	017860-5306
2	5 m	7.15 m	7 m	0.15 m	017860-5306
3	10 m	12.15 m	12 m	0.15 m	017860-5307
4	16 m	22.15 m	22 m	0.15 m	017860-5309
5	20 m	22.15 m	22 m	0.15 m	017860-5309
6	30 m	32.15 m	32 m	0.15 m	017860-5310
F	60 ft	72.17 ft	69.89 ft	3.28 ft	Contact Endress+Hauser
H	100 ft	111.54 ft	108.26 ft	3.28 ft	Contact Endress+Hauser

3. Code 070 (Option 3): Measuring tape SUS316, seal pot/BT

060 measurement range		Length (total length)	Perforated tape (measurement length)	Non-perforated tape	Spare parts
1	2.5 m	24 m	7 m	17 m	Contact Endress+Hauser
2	5 m	24 m	7 m	17 m	Contact Endress+Hauser
3	10 m	35 m	12 m	23 m	Contact Endress+Hauser
4	16 m	55 m	22 m	33 m	Contact Endress+Hauser
5	20 m	55 m	22 m	33 m	Contact Endress+Hauser

060 measurement range		Length (total length)	Perforated tape (measurement length)	Non-perforated tape	Spare parts
6	30 m	75 m	32 m	43 m	017860-5210
F	60 ft	167.31 ft	69.89 ft	98.42 ft	Contact Endress+Hauser
H	100 ft	249.33 ft	108.26 ft	141.07 ft	Contact Endress+Hauser

4. Code 070 (Option 4): Measuring tape SUS316 + wire SUS316/FRT

060 measurement range		Length (total length)	Perforated tape (measurement length)	Non-perforated tape	Wire	Spare parts
1	2.5 m	16 m	6.7 m	0.3 m	9 m	017860-0005
2	5 m	16 m	6.7 m	0.3 m	9 m	017860-0005
3	10 m	26 m	11.7 m	0.3 m	14 m	017860-0007
4	16 m	46 m	21.7 m	0.3 m	24 m	017860-0011
5	20 m	46 m	21.7 m	0.3 m	24 m	017860-0011
6	30 m	66 m	31.7 m	0.3 m	34 m	017860-0013
F	60 ft	147.63 ft	67.91 ft	67.91 ft	78.74 ft	Contact Endress +Hauser
H	100 ft	219.80 ft	107.28 ft	67.91 ft	111.54 ft	Contact Endress +Hauser

5. Code 070 (Option 5) Measuring tape SUS316 + PFA-coated SUS316 wire, seal pot/CRT

060 measurement range		Length (total length)	Perforated tape (measurement length)	Non-perforated tape	Wire	Spare parts
1	2.5 m	18 m	6.7 m	0.3 m	11 m	017860-0006
2	5 m	18 m	6.7 m	0.3 m	11 m	017860-0006
3	10 m	28 m	11.7 m	0.3 m	16 m	017860-0008
4	16 m	48 m	21.7 m	0.3 m	26 m	017860-0012
5	20 m	48 m	21.7 m	0.3 m	26 m	017860-0012
6	30 m	68 m	31.7 m	0.3 m	36 m	017860-0014
F	60 ft	154.19 ft	67.91 ft	67.91 ft	86.30 ft	Contact Endress +Hauser
H	100 ft	226.37 ft	107.28 ft	67.91 ft	118.11 ft	Contact Endress +Hauser

Sealing materials for wetted liquid and wetted gas parts **List of materials**

Product name	Component name	Name of sealing material	Type of sealing material	Packing and O-ring materials
LT5-1	Gauge head	Rear cover	Cover packing	V#6502
		Check shaft	O-ring	FKM
		Sprocket shaft	Oil seal	FKM
		Blind board	Packing	NBR
	90 ° sheave elbow	Aluminum sheave elbow	Cover packing	V#6502
		Stainless steel sheave elbow		
		Bearing	O-ring	Silicone rubber
	U-seal pot	Aluminum sheave elbow	Cover packing	V#6502
			Bearing O-ring	Silicone rubber
		Stainless steel sheave elbow	Cover packing	V#6502
			Bearing O-ring	Silicone rubber
		PVC sheave elbow	Cover packing	V#6502
			Bearing O-ring	PTFE
	Top anchor	Aluminum, screw-in type	Cover packing	V#6502
		Stainless steel, tank welding type		
	Top anchor	Aluminum, flange, screw-in type		
		Stainless steel, flange welding type	Spring retainer packing	
LT5-4/LT5-6	Gauge head	Rear cover	Cover packing	PTFE
		Check handle unit	Gland packing	PTFE/CR
		Internal magnet cover	O-ring	PTFE
		External magnet cover	O-ring	NBR *Ammonia specifications CR
		Coupling unit	O-ring	PTFE
	Gate valve	Shaft	Shaft packing	PTFE
		Cap nut unit	Packing	PTFE
LT5-4	90 ° sheave elbow	Cover	Cover packing	PTFE
		Bearing	O-ring	PTFE
	135 ° sheave elbow	Cover	Cover packing	PTFE
		Bearing	O-ring	PTFE
	Top anchor	Aluminum-flange integrated type	Spring retainer packing	PTFE
		Stainless steel, flange welding type		
LT5-6	90 ° sheave elbow	Cover	Cover packing	PTFE
		Bearing	O-ring	PTFE
	135 ° sheave elbow	Cover	Cover packing	PTFE
		Bearing	O-ring	PTFE
	Top anchor	Iron, flange welding type	Spring retainer packing	PTFE
		Stainless steel, flange welding type		

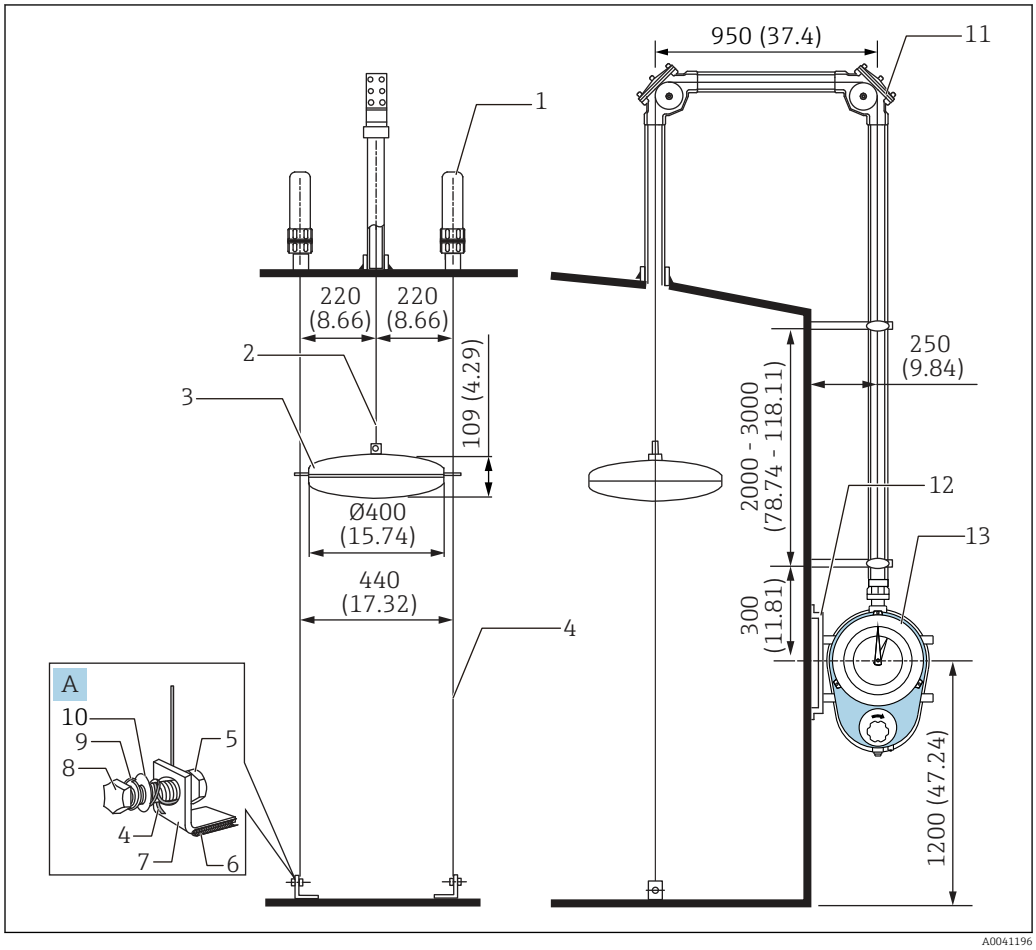
Material certificates

When material certificates are required, order them when ordering the products. Certificates can be provided for the following parts.

- High-pressure specification iron gauge head (the certificate for the flange is the same, as it undergoes integrated-type casting with the gauge head), cover, magnet cover, check shaft (only those without hoisting), plug
- Stainless steel measuring tape and wire (excluding PFA-coated wire)
- Stainless steel float
- Stainless steel or top anchor body, cover, flange for high pressure
- Stainless steel guide wire (excluding PFA-coated wire)
- Stainless steel anchor hook
- Main unit of the high-pressure specification iron sheave elbow (the certificate for the flange is the same, as it undergoes integrated-type casting with the main unit of the sheave elbow), cover
- Stainless steel gate valve

Reference installation diagrams and order codes

Cone roof tank (CRT)



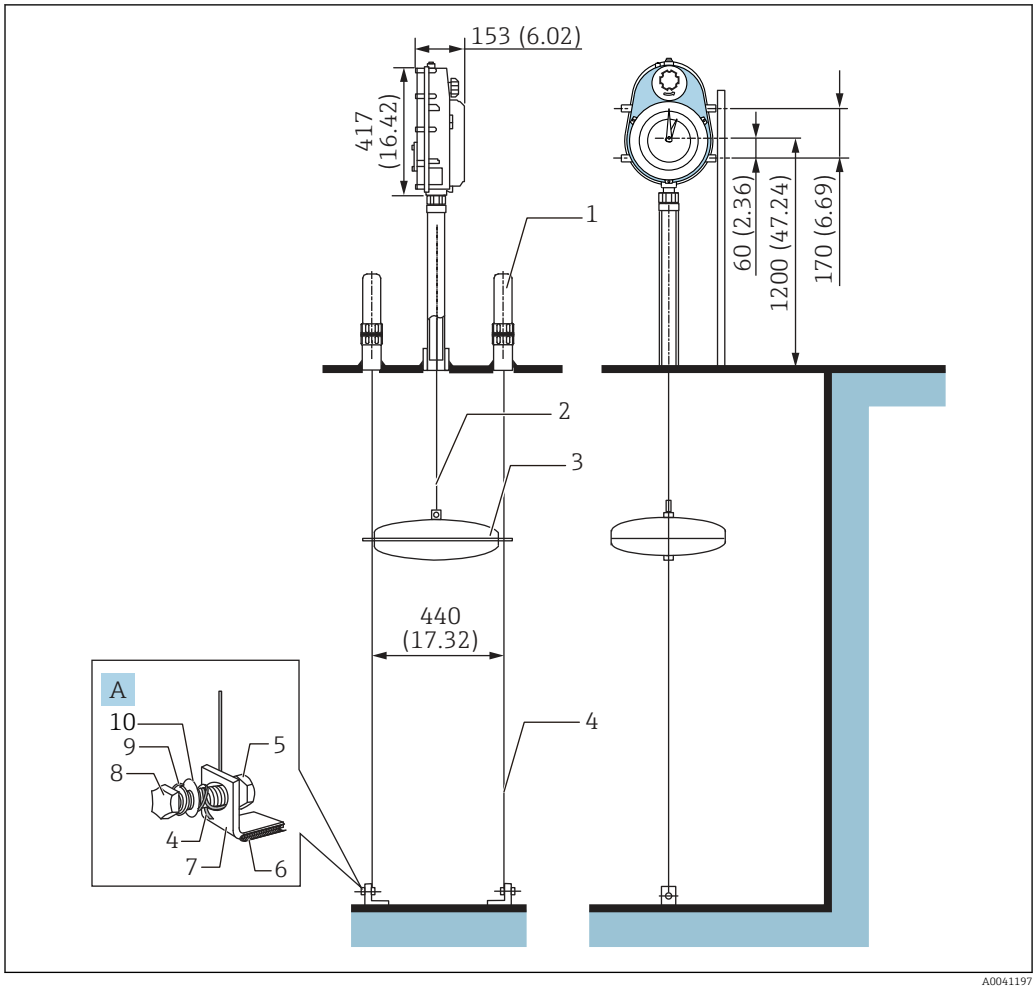
2 *Mounting on a cone roof tank. Unit of measurement mm (in)*

A Anchor hook
1 Top anchor
2 Measuring tape
3 Float
4 Guide wire
5 Nut
6 Tank bottom (where anchor hook is welded to tank bottom)
7 Anchor hook
8 Bolt
9 Spring washer
10 Flat washer
11 90 ° sheave elbow
12 Gauge supporter
13 Gauge head

Order code example (LT5-111A031B11A111200000+PA)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	11	Rc 1-1/2, union nut, SUS316, screw JIS B0203	
040	Display; cover	A	Dial display: acrylic	
050	Crank unit	0	None	
060	Measurement range	3	10 m	
070	Measuring tape	1	Measuring tape SUS316, CRT	
080	Float	B	D400 mm SUS316 tape connection 5.0 kg, 0.65 ≤ density 1.05, with ring	
090	Top anchor	11	2x R1, aluminum (ADC6), screw JIS B0203	2
100	Guide wire	A	3 mm-diameter single wire, SUS316	
110	Anchor hooks; mounting bolts	1	Iron; SUS316 (mounting bolt) SUS316L	
120	90 ° sheave elbow	112	2x Rp 1-1/2, aluminum (ADC6), screw JIS B0203	
130	135 ° sheave elbow	000	None	-
140	Seal pot	0	None	
150	Gate valve	0	None	
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	1

Tank top mounting (for an underground tank)



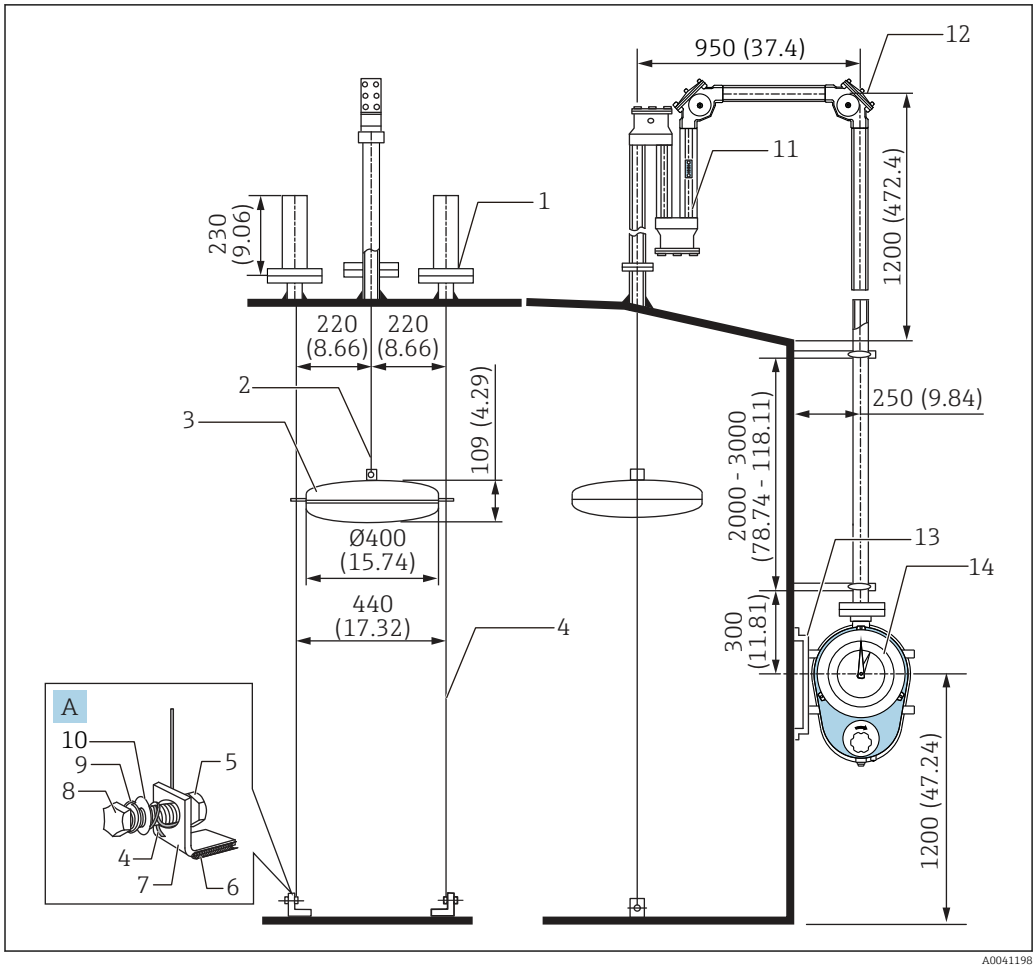
3 *Mounting on an underground tank. Unit of measurement mm (in)*

A Anchor hook
1 Top anchor
2 Measuring tape
3 Float
4 Guide wire
5 Nut
6 Tank bottom (where anchor hook is welded to tank bottom)
7 Anchor hook
8 Bolt
9 Spring washer
10 Flat washer

Order code example (LT5-111C022B11A100000000)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	11	Rc 1-1/2, union nut, SUS316, screw JIS B0203	
040	Display; cover	C	Reverse mounting, dial display, acrylic	
050	Crank unit	0	None	
060	Measurement range	2	5 m	
070	Measuring tape	2	Measuring tape SUS316, tank top mounting	
080	Float	B	D400 mm SUS316 tape connection 5.0 kg, 0.65 ≤ density 1.05, with ring	
090	Top anchor	11	2x R1, aluminum (ADC6), screw JIS B0203	2
100	Guide wire	A	3 mm-diameter single wire, SUS316	
110	Anchor hooks; mounting bolts	1	Iron; SUS316 (mounting bolt) SUS316L	
120	90 ° sheave elbow	000	None	-
130	135 ° sheave elbow	000	None	
140	Seal pot	0	None	
150	Gate valve	0	None	

Cone roof tank (with seal pot for CRT)



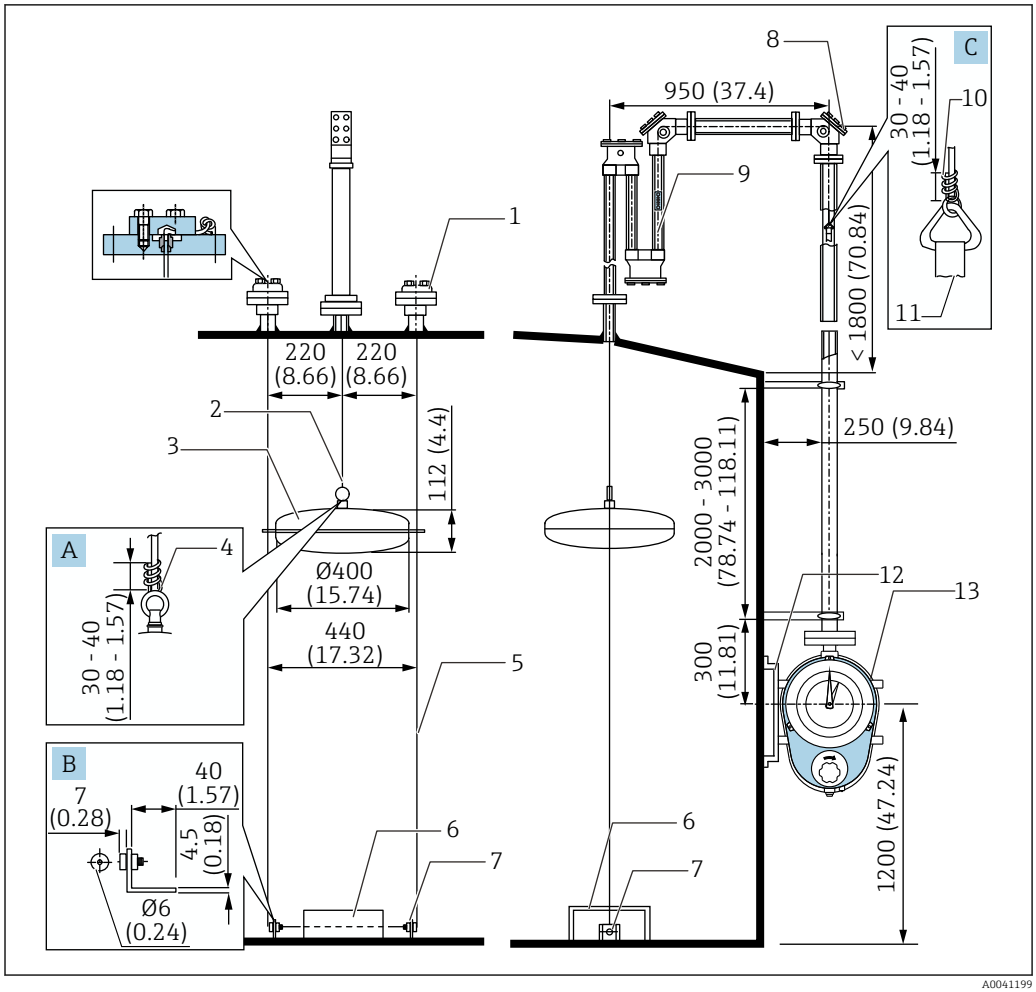
4 *Mounting with seal pot for CRT. Unit of measurement mm (in)*

A Anchor hook
1 Top anchor
2 Measuring tape
3 Float
4 Guide wire
5 Nut
6 Tank bottom (where anchor hook is welded to tank bottom)
7 Anchor hook
8 Bolt
9 Spring washer
10 Flat washer
11 Seal pot
12 90 ° sheave elbow
13 Gauge supporter
14 Gauge head

Order code example (LT5-11AA023B1BA21A1000F0+PA)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	1A	10K 40A RF, aluminum (AC4A), flange JIS B2220	
040	Display; cover	A	Dial display: acrylic	
050	Crank unit	0	None	
060	Measurement range	2	5 m	
070	Measuring tape	3	Measuring tape SUS316, seal pot / BT	
080	Float	B	D400 mm SUS316 tape connection 5.0 kg, 0.65 ≤ density 1.05, with ring	
090	Top anchor	1B	2x 10K 40A RF, SUS316, flange JIS B2220	2
100	Guide wire	A	3 mm-diameter single wire, SUS316	
110	Anchor hooks; mounting bolts	2	SUS316; SUS316 (mounting bolt) SUS316L	
120	90 ° sheave elbow	1A1	1x 10K 40A RF, aluminum (ADC6+AC4A), flange JIS B2220	1
130	135 ° sheave elbow	000	None	-
140	Seal pot	F	10K 40A RF, SUS316, flange JIS B2220	1
150	Gate valve	0	None	-
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	1

Cone roof tank (with seal pot PVC for CRT)



5 *Mounting with seal pot PVC for CRT. Unit of measurement mm (in)*

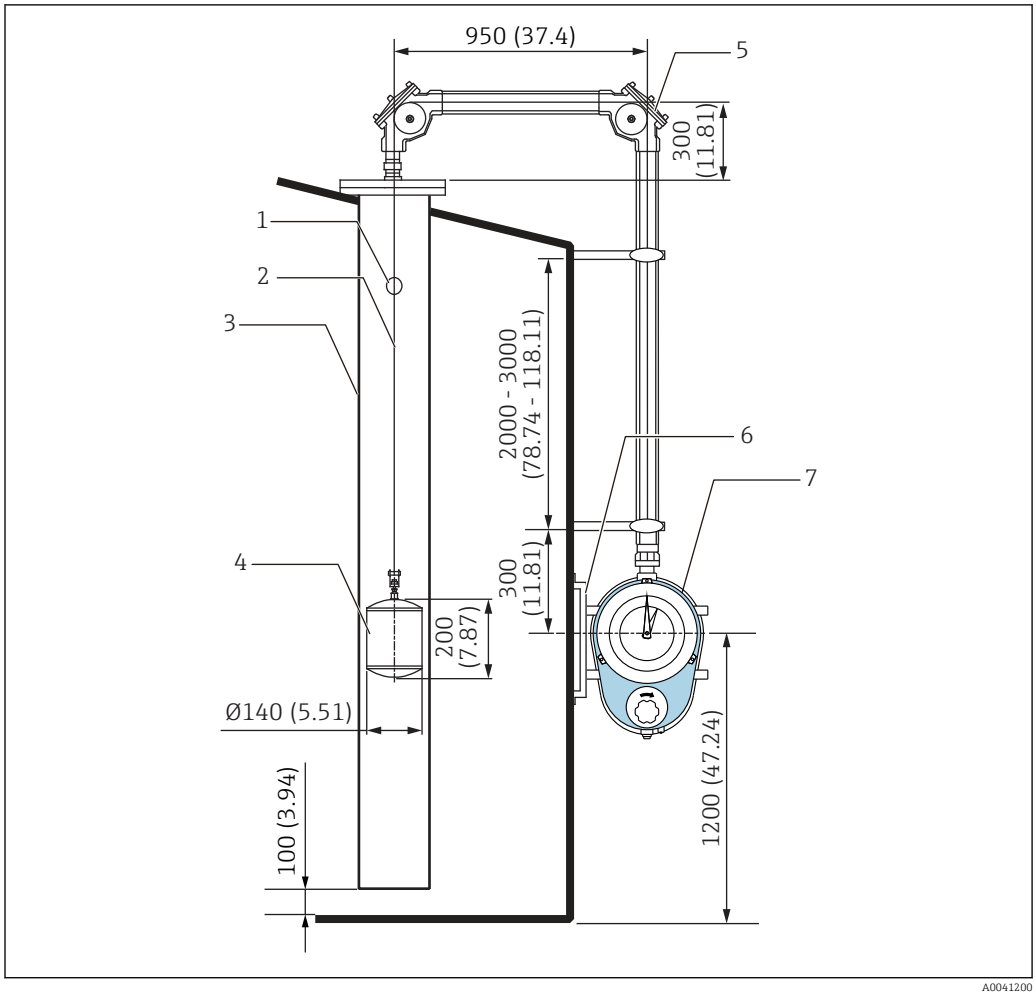
A Float tip
B Anchor hook details
C Measuring tape, measuring wire connection
1 Top anchor
2 Measuring wire
3 Float
4 Teflon tube
5 Guide wire (PFA-coated wire)
6 Wire protection stand (not supplied)
7 Anchor hook
8 90 ° sheave elbow
9 Seal pot
10 Support wire (stainless steel, supplied)
11 Measuring tape
12 Gauge supporter
13 Gauge head

- Wrap the provided Teflon-coated tube 10 to 15 times around the measuring wire.
- Coat the anchor hook if necessary.
- Position connection C in the diagram so that it is approximately 10 mm (0.39 in) below the sheave elbow when the liquid level is 0 and approximately 100 mm (3.94 in) above the gauge head when the liquid level is at its maximum.

Order code example (LT5-11AA025H1NC41A1000N0+PA)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	1A	10K 40A RF, aluminum (AC4A), flange JIS B2220	
040	Display; cover	A	Dial display: acrylic	
050	Crank unit	0	None	
060	Measurement range	2	5 m	
070	Measuring tape	5	Measuring tape SUS316+PFA coated SUS316 wire, seal pot / CRT	
080	Float	H	D400 mm SUS316 wire connection 5.0 kg, 0.65 ≤ density 1.05, with ring	
090	Top anchor	1N	2x 10K 40A RF, PVC, flange JIS B2220	2
100	Guide wire	C	4.6 mm-diameter stranded wire, PFA-coated SUS316	1
110	Anchor hooks; mounting bolts	4	SUS316; PVC	2
120	90 ° sheave elbow	1A1	1x 10K 40A RF, aluminum (ADC6+AC4A), flange JIS B2220	1
130	135 ° sheave elbow	000	None	-
140	Seal pot	N	10K 40A FF, PVC, flange JIS B2220	1
150	Gate valve	0	None	-
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	1

Compact cone roof tank (guide pipe method)



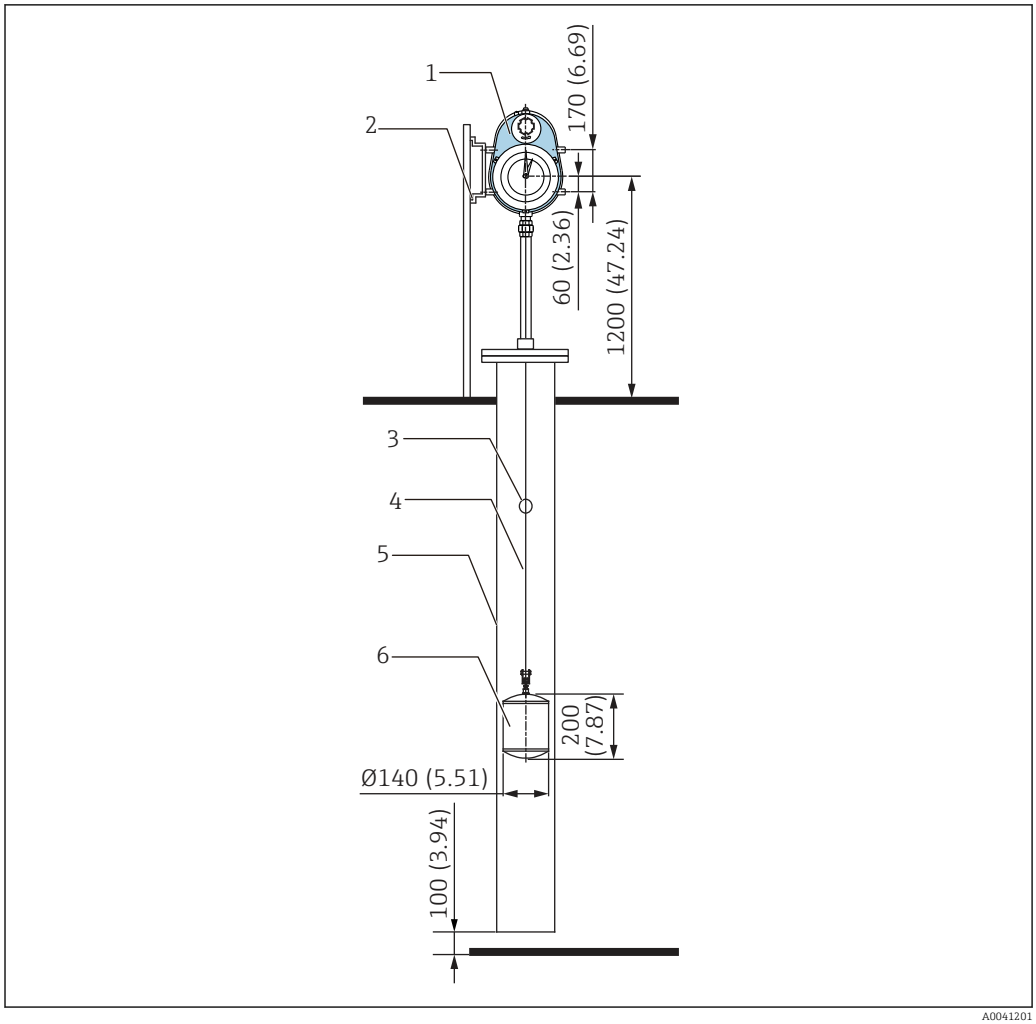
6 Mounting on a compact cone roof tank. Unit of measurement mm (in)

1 Ventilation hole
2 Measuring tape
3 Guide pipe (stilling well, not supplied)
4 Float
5 90 ° sheave elbow
6 Gauge supporter
7 Gauge head

Order code example (LT5-111A021L000011200000+PA)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	11	Rc 1-1/2, union nut, SUS316, screw JIS B0203	
040	Display; cover	A	Dial display: acrylic	
050	Crank unit	0	None	
060	Measurement range	2	5 m	
070	Measuring tape	1	Measuring tape SUS316, CRT	
080	Float	L	D140 mm SUS316 tape connection 2.4 kg, 0.94 ≤ density 2.0, without ring	
090	Top anchor	00	None	-
100	Guide wire	0	None	
110	Anchor hooks; mounting bolts	0	None	
120	90 ° sheave elbow	112	2x Rp 1-1/2, aluminum (ADC6), screw JIS B0203	2
130	135 ° sheave elbow	000	None	-
140	Seal pot	0	None	
150	Gate valve	0	None	
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	1

Tank top mounting (guide pipe method)



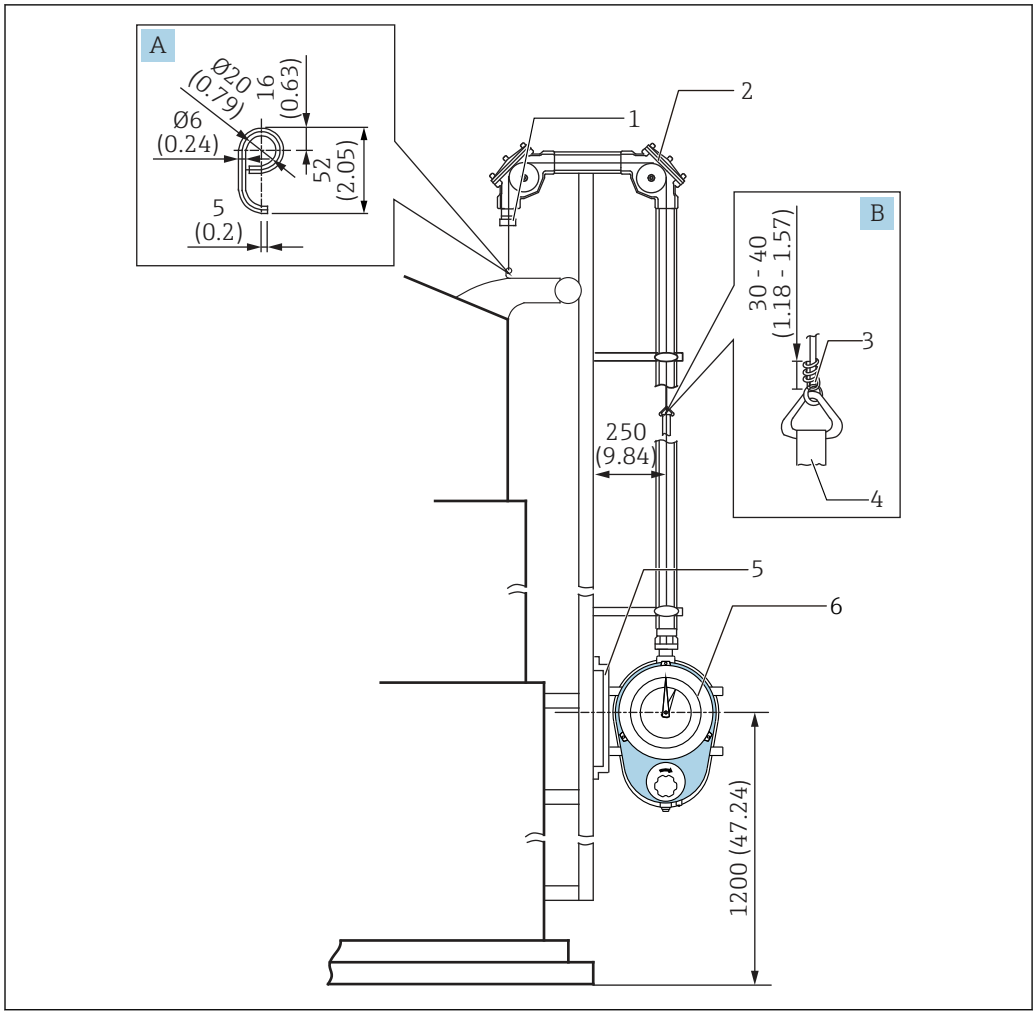
7 *Tank top mounting, unit. Unit of measurement mm (in)*

1 *Gauge head*
2 *Gauge supporter*
3 *Ventilation hole*
4 *Measuring tape*
5 *Guide pipe (stilling well, not supplied)*
6 *Float*

Order code example (LT5-111C022L000000000000+PA)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	11	Rc 1-1/2, union nut, SUS316, screw JIS B0203	
040	Display; cover	C	Reverse mounting, dial display, acrylic	
050	Crank unit	0	None	
060	Measurement range	2	5 m	
070	Measuring tape	2	Measuring tape SUS316, tank top mounting	
080	Float	L	D140 mm SUS316 tape connection 2.4 kg, 0.94 ≤ density 2.0, without ring	
090	Top anchor	00	None	-
100	Guide wire	0	None	
110	Anchor hooks; mounting bolts	0	None	
120	90 ° sheave elbow	000	None	
130	135 ° sheave elbow	000	None	
140	Seal pot	0	None	
150	Gate valve	0	None	
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	1

Gas holder



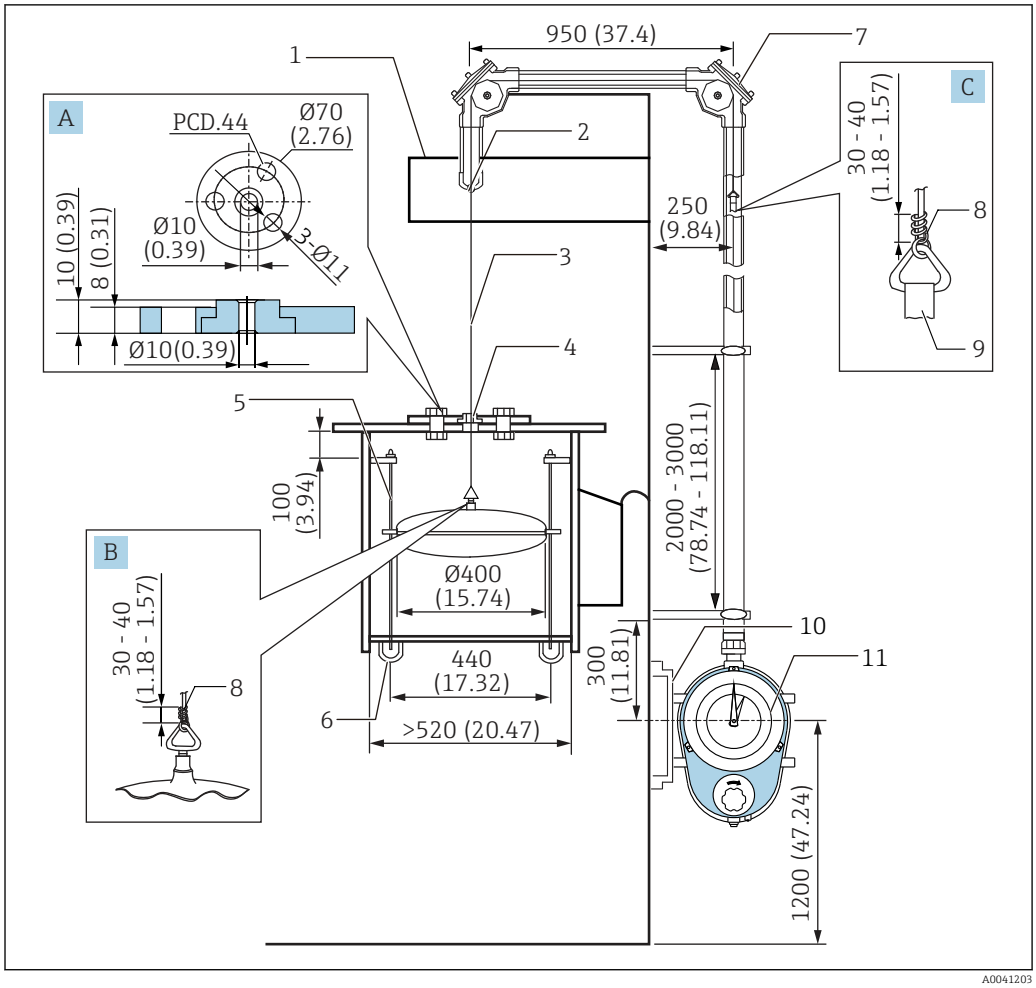
8 Mounting a gas holder. Unit of measurement mm (in)

A Gas holder wire hook
B Measuring tape, measuring wire connection
1 Wire guide socket
2 90 ° sheave elbow
3 Support wire (stainless steel, supplied)
4 Measuring tape
5 Gauge supporter
6 Gauge head

Order code example (LT5-111A0340000011200000+PAPFPH)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	11	Rc 1-1/2, union nut, SUS316, screw JIS B0203	
040	Display; cover	A	Dial display: acrylic	
050	Crank unit	0	None	
060	Measurement range	3	10 m	
070	Measuring tape	4	Measuring tape SUS316+wire SUS316, FRT	
080	Float	0	None	-
090	Top anchor	00	None	
100	Guide wire	0	None	
110	Anchor hooks; mounting bolts	0	None	
120	90 ° sheave elbow	112	2x Rp 1-1/2, aluminum (ADC6), screw JIS B0203	2
130	135 ° sheave elbow	000	None	-
140	Seal pot	0	None	
150	Gate valve	0	None	
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	1
620	>>Enclosed accessories	PF	Wire guide socket, Rc 1-1/2, iron main unit, metal PVC	
620	>>Enclosed accessories	PH	Gas holder wire hook, iron	

Floating roof tank (FRT)



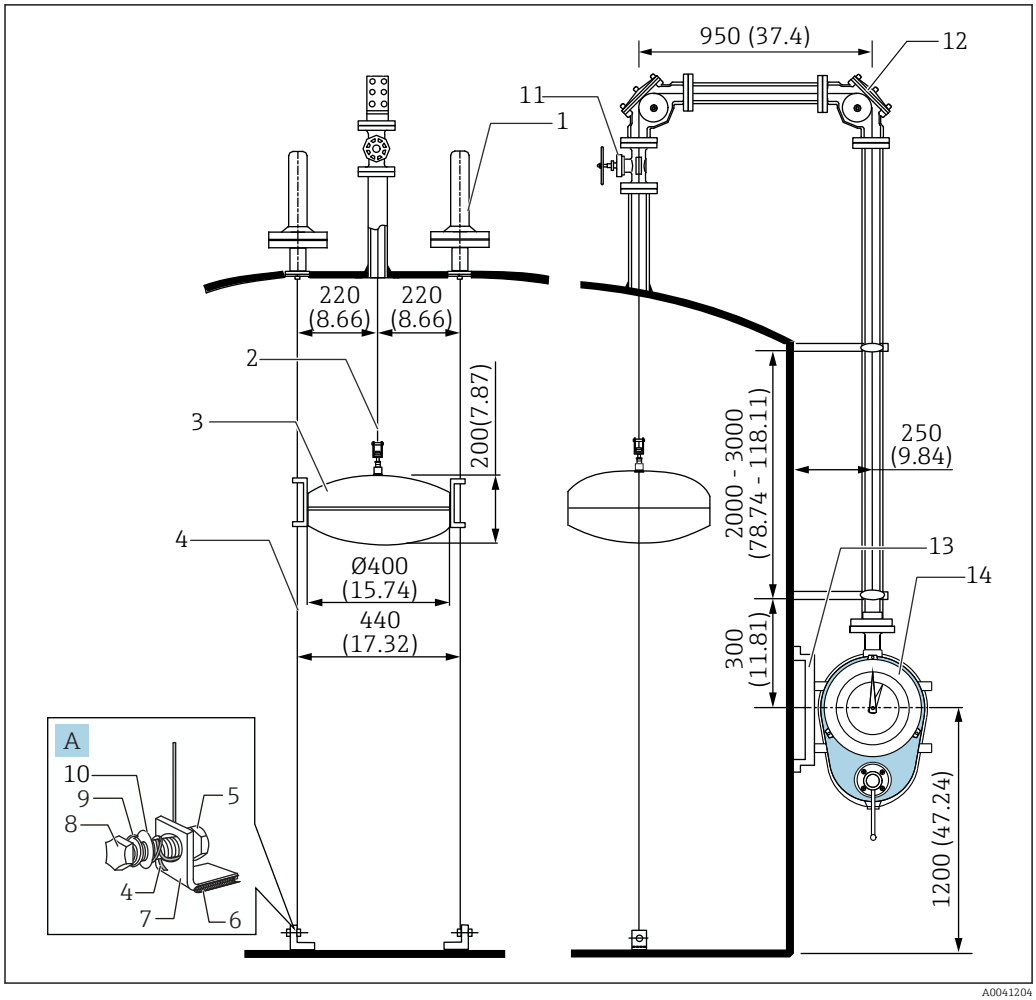
9 *Mounting on a floating roof tank. Unit of measurement mm (in)*

A Wire guide metal
B Top of the float
C Measuring tape, measuring wire connection
1 Roof stand (not supplied)
2 Wire guide socket
3 Measuring wire
4 FRT wire guide metal
5 Guide bar: φ16 mm (0.63 in) (not supplied)
6 Pipe end: 1 B Sch 40 to 80 (not supplied)
7 90 ° sheave elbow
8 Support wire (stainless steel, supplied)
9 Measuring tape
10 Gauge supporter
11 Gauge head

Order code example (LT5-111A054E000011200000+PAPEPF)

Item	Target	Code	Specification	Quantity
020	Gauge head	1	0 to 0.1961 bar / 0.01961 MPa / 2.84 psi, aluminum (ADC12), low pressure	1
030	Gauge head process connection	11	Rc 1-1/2, union nut, SUS316, screw JIS B0203	
040	Display; cover	A	Dial display: acrylic	
050	Crank unit	0	None	
060	Measurement range	5	20 m	
070	Measuring tape	4	Measuring tape SUS316+wire SUS316, FRT	
080	Float	E	D400 mm SUS316 wire connection 5.0 kg, 0.65 ≤ density 1.05, with ring	
090	Top anchor	00	None	-
100	Guide wire	0	None	
110	Anchor hooks; mounting bolts	0	None	
120	90 ° sheave elbow	112	2x Rp 1-1/2, aluminum (ADC6), screw JIS B0203	2
130	135 ° sheave elbow	000	None	-
140	Seal pot	0	None	
150	Gate valve	0	None	
620	>>Enclosed accessories	PA	Gauge supporter SS400, low-pressure/medium-pressure gauge head	1
620	>>Enclosed accessories	PE	FRT wire guide metal, main unit SS400, metal, PTFE, bolt SUS316L	
620	>>Enclosed accessories	PF	Wire guide socket, Rc 1-1/2, iron main unit, metal PVC	

Medium-pressure dome roof tank



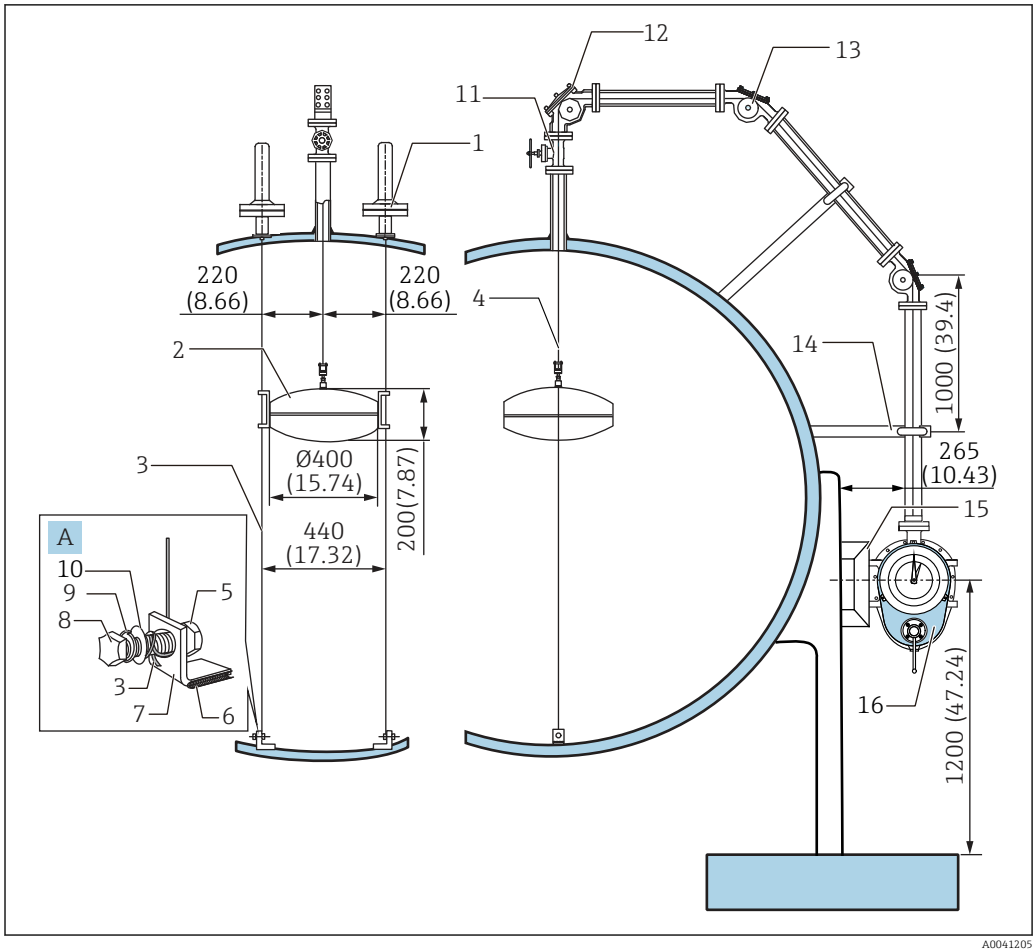
10 Mounting on a medium-pressure dome roof tank. Unit of measurement mm (in)

A Anchor hook
1 Top anchor
2 Measuring tape
3 Float
4 Guide wire
5 Nut
6 Tank bottom (where anchor hook is welded to tank bottom)
7 Anchor hook
8 Bolt
9 Spring washer
10 Flat washer
11 Gate valve
12 90 ° sheave elbow
13 Gauge supporter
14 Gauge head

Order code example (LT5-44AB151R4AA24A200001+PA)

Item	Target	Code	Specification	Quantity
020	Gauge head	4	0 to 0.9807 bar / 0.09807 MPa / 14.22 psi, aluminum (AC4C-T6), medium pressure	1
030	Gauge head process connection	4A	10K 40A RF, aluminum (AC4C-T6), flange JIS B2220	
040	Display; cover	B	Dial display; glass + iron	
050	Crank unit	1	Available	
060	Measurement range	5	20 m	
070	Measuring tape	1	Measuring tape SUS316, CRT	
080	Float	R	D400 mm SUS316 tape connection 8.3 kg, 0.5 ≤ density 0.7, with ring	
090	Top anchor	4A	2x 10K 40A RF, aluminum (AC4C-T6), flange JIS B2220	2
100	Guide wire	A	3 mm-diameter single wire, SUS316	
110	Anchor hooks; mounting bolts	2	SUS316; SUS316 (mounting bolt) SUS316L	
120	90 ° sheave elbow	4A2	2x 10K 40A RF, aluminum (AC4C-T6), flange JIS B2220	
130	135 ° sheave elbow	000	None	-
140	Seal pot	0	None	
150	Gate valve	1	10K 40A RF, SCS13, flange JIS B2220	1
620	>>Enclosed accessories	PA	Gauge supporter, iron, low-pressure/medium-pressure gauge head	

High-pressure spherical tank



11 Mounting on a high-pressure spherical tank. Unit of measurement mm (in)

A Anchor hook
1 Top anchor
2 Float
3 Guide wire
4 Measuring tape
5 Nut
6 Tank bottom (where anchor hook is welded to tank bottom)
7 Anchor hook
8 Bolt
9 Spring washer
10 Flat washer
11 Gate valve
12 90 ° sheave elbow
13 135 ° sheave elbow
14 Pipe supporter (not supplied, see notes)
15 Gauge supporter
16 Gauge head

Mount pipe supporter [14] 1 000 mm (39.38 in) below 135 ° sheave elbow [13] to support the pipes.

Order code example (LT5-66GB153R6GA26G16G204+PC)

Item	Target	Code	Specification	Quantity
020	Gauge head	6	0 to 24.5 bar / 2.45 MPa / 355.25 psi, iron (SCPL1), high pressure	1
030	Gauge head process connection	6G	20K 40A RF, iron (SCPL1), flange JIS B2220	
040	Display; cover	B	Dial display; glass + iron	
050	Crank unit	1	Available	
060	Measurement range	5	20 m	
070	Measuring tape	3	Measuring tape SUS316, seal pot / BT	
080	Float	R	D400 mm SUS316 tape connection 8.3 kg, 0.5 ≤ density 0.7, with ring	
090	Top anchor	6H	2x 20K 40A RF, SUS316, flange JIS B2220	2
100	Guide wire	A	3 mm-diameter single wire, SUS316	
110	Anchor hooks; mounting bolts	2	SUS316; SUS316 (mounting bolt) SUS316L	
120	90 ° sheave elbow	6G1	1x 20K 40A RF, iron (SCPL1), flange JIS B2220	1
130	135 ° sheave elbow	6G2	2x 20K 40A RF, iron (SCPL1), flange JIS B2220	2
140	Seal pot	0	None	-
150	Gate valve	4	20K 40A RF, SCS13, flange JIS B2220	1
620	>>Enclosed accessories	PC	Gauge supporter, iron, for high pressure	

Environment

Permissible temperature

Specifications	Range
LT5-1	Wetted parts (stainless steel): −200 to 200 °C (−328 to 392 °F) Wetted parts (PVC): −20 to 60 °C (−4 to 140 °F) Main unit: −20 to 70 °C (−4 to 157 °F)
LT5-4/LT5-6	Wetted parts: −45 to 80 °C (−49 to 176 °F) Main unit: −20 to 70 °C (−4 to 157 °F)

Process

Process pressure range

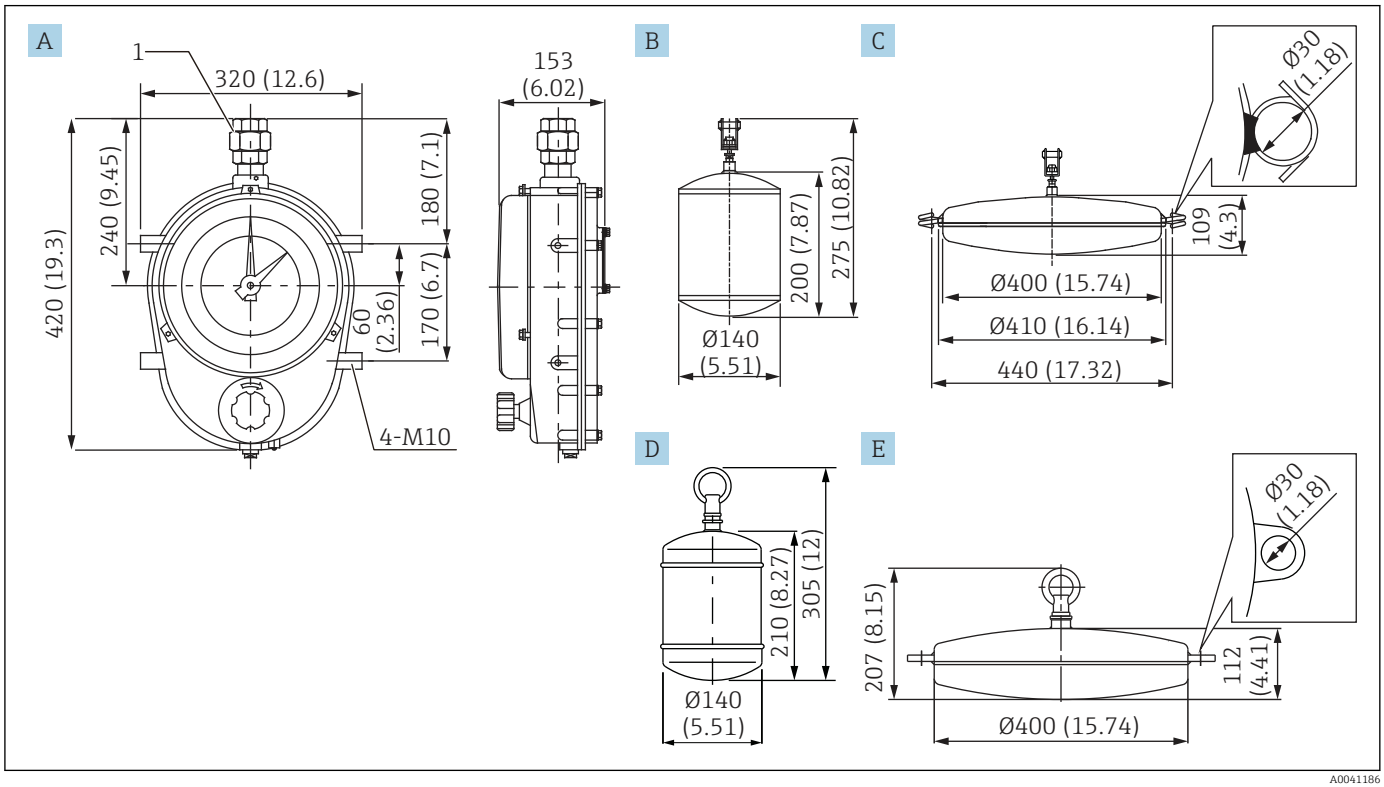
Specifications	Housing materials	Process pressure range				
LT5-1 (low pressure)	Aluminum	0.1961 bar/0.01961 MPa/2.84 psi				
LT5-4 (medium pressure)	Aluminum	0.9807 bar/0.09807 MPa/14.22 psi				
LT5-6 (high pressure)	Iron	Standard	Specifications	bar	MPa	psi
		JIS	10K	9.8	0.98	142.13
			20K	24.5	2.45	355.33
		ASME	Cl.150	9.8	0.98	142.13
			Cl.300	24.5	2.45	355.33
		JPI	150 lbs	9.8	0.98	142.13
			300 lbs	24.5	2.45	355.33

Mechanical construction

Dimensions of LT5

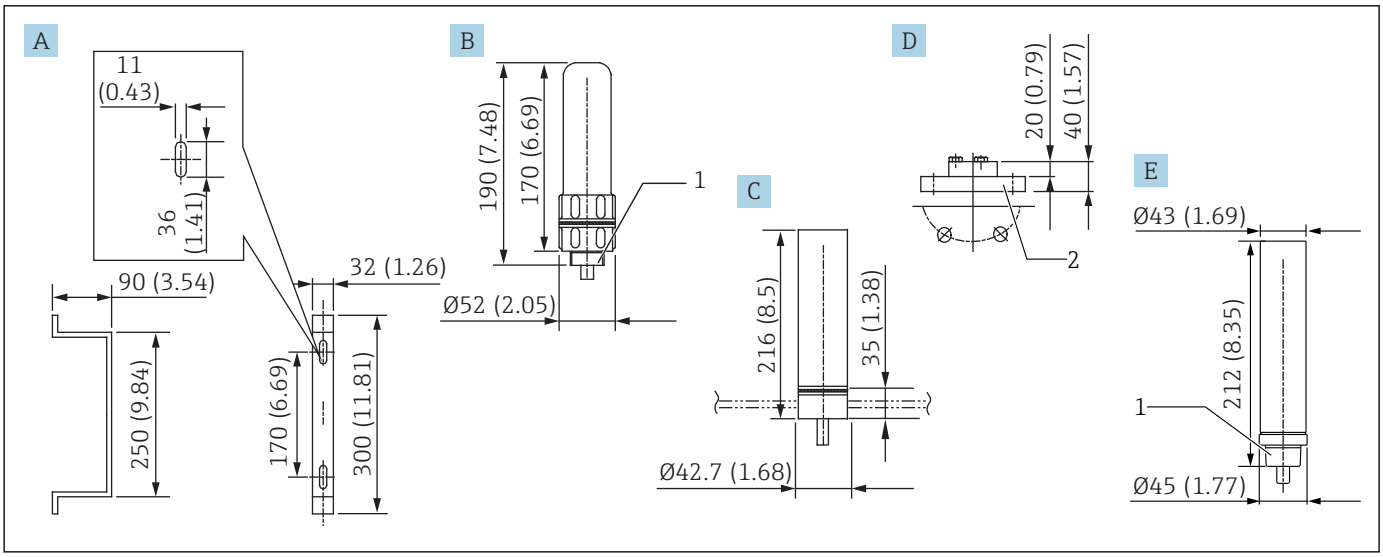
Dimensions of common components are used for the installation conditions. For further information, contact your Endress+Hauser Sales Center or distributor.

Dimensions of LT5-1 (screw-in type / low-pressure type)



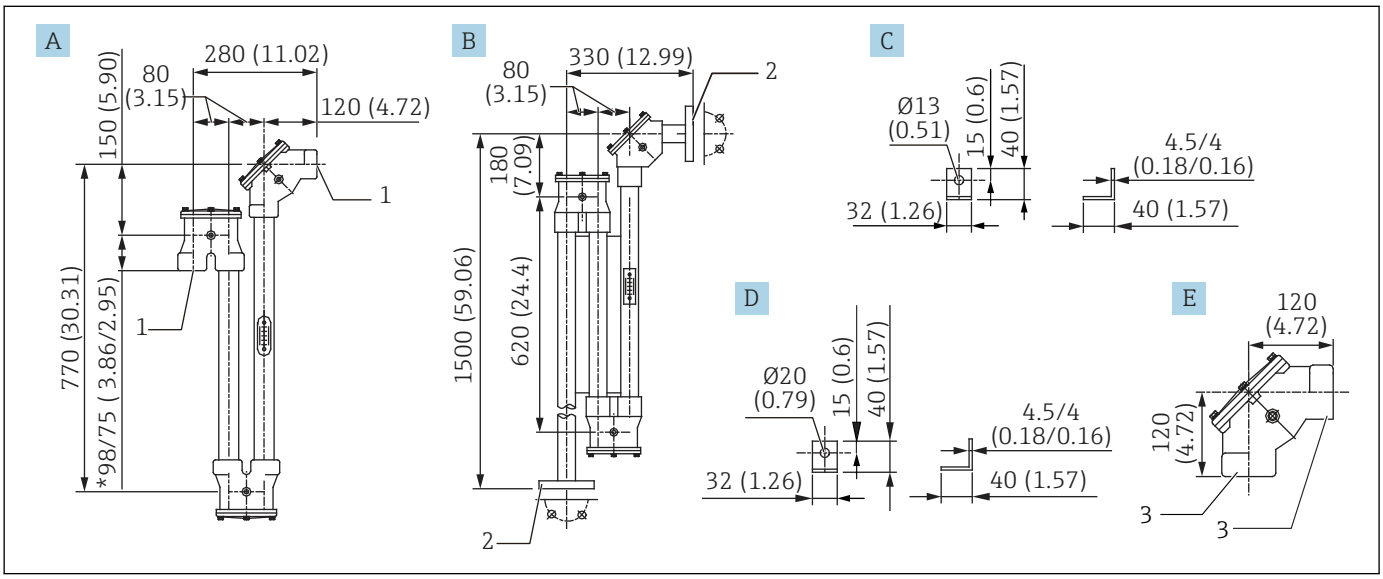
12 *LT5-1 / float dimensions. Unit of measurement mm (in)*

A Gauge head (ADC12)
B Float φ140 (SUS316)
C Float φ400 (SUS316)
D Float φ140 (PVC)
E Float φ400 (PVC)
1 Union nut (select from JIS Rc 1-1/2 / ANSI NPT 1-1/2; select Rp 1-1/2 if there is no union nut)



13 *Accessory 1. Unit of measurement mm (in)*

A Gauge supporter (select from iron (SS400, t: 4.5 mm (0.18 in)) / SUS304, t: 4 mm (0.16 in))
B Top anchor (ADC6)
C Top anchor (SUS316 with socket welding type)
D Top anchor (select from PVC: JIS 10K 40A FF / ASME NPS 1-1/2" Cl. 150 FF / JPI 40A 150 lbs FF)
E Top anchor (SUS316)
1 Select from JIS R1 / ANSI NPT1

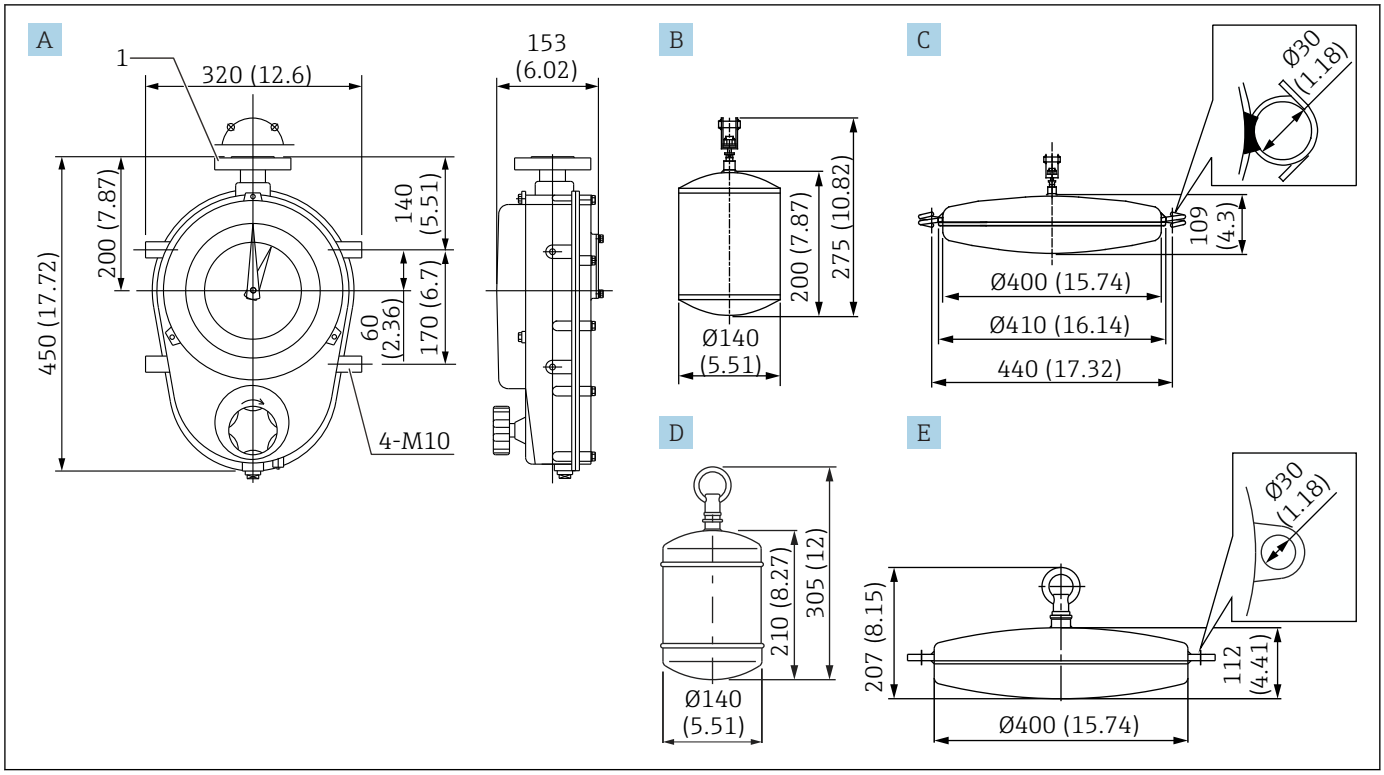


14 *Accessory 2. Unit of measurement mm (in)*

A Seal pot (select from aluminum + iron / SCS14+SUS316)
B Seal pot (PVC: flange type only)
C Anchor hook (main unit: select from iron / SUS316; bolt: SUS316L)
D Anchor hook (main unit: select from iron / SUS316; bolt: PVC)
E 90 ° sheave elbow (select from ADC6 / SCS14)
1 Screw-in type (select from Rp 1-1/2 / NPT 1-1/2 as options)
2 Flange (select from JIS 10K 40A FF / ASME NPS 1-1/2" Cl. 150 FF / JPI 40A 150 lbs FF)
3 Screw-in type (select from Rp 1-1/2 / NPT 1-1/2 as options)

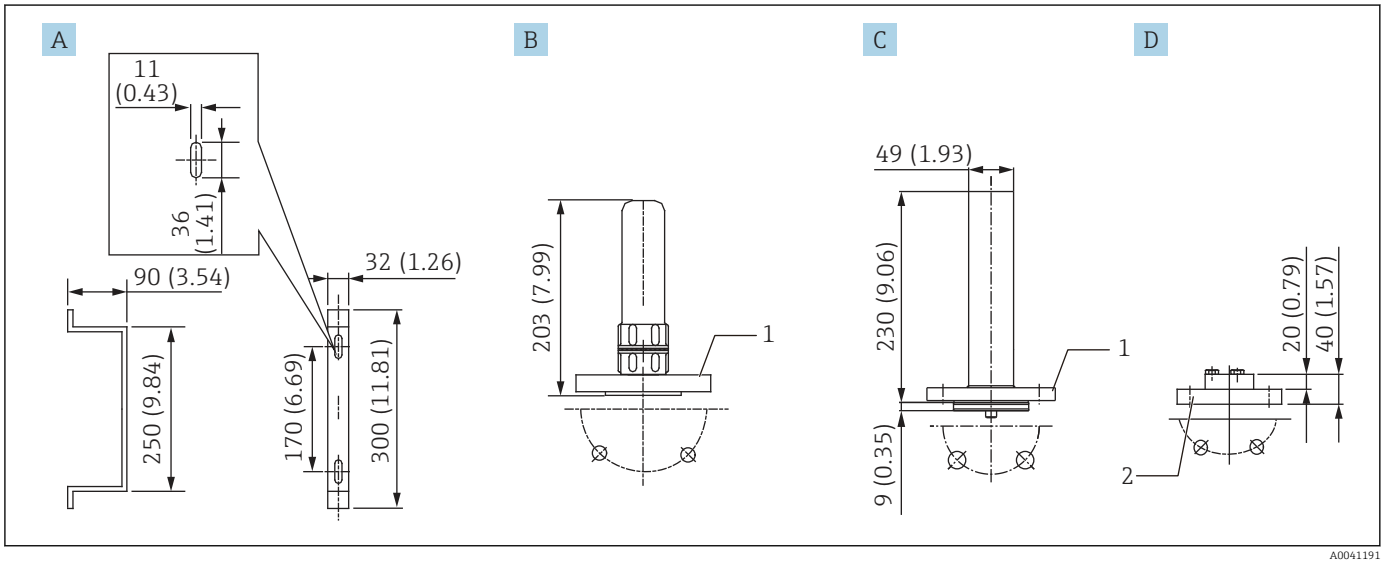
- For seal pot 98 / 75, 98 mm (3.86 in) is the dimension of an aluminum seal pot while 75 mm (2.92 in) is the dimension of a stainless steel seal pot.
- For anchor hook 4.5 / 4, 4.5 mm (0.18 in) is the thickness of an iron anchor hook while 4 mm (0.16 in) is the thickness of a stainless steel anchor hook.
  An anchor hook comes with bolts, nuts, and washers.

Dimensions of LT5-1 (flange type / low-pressure type)



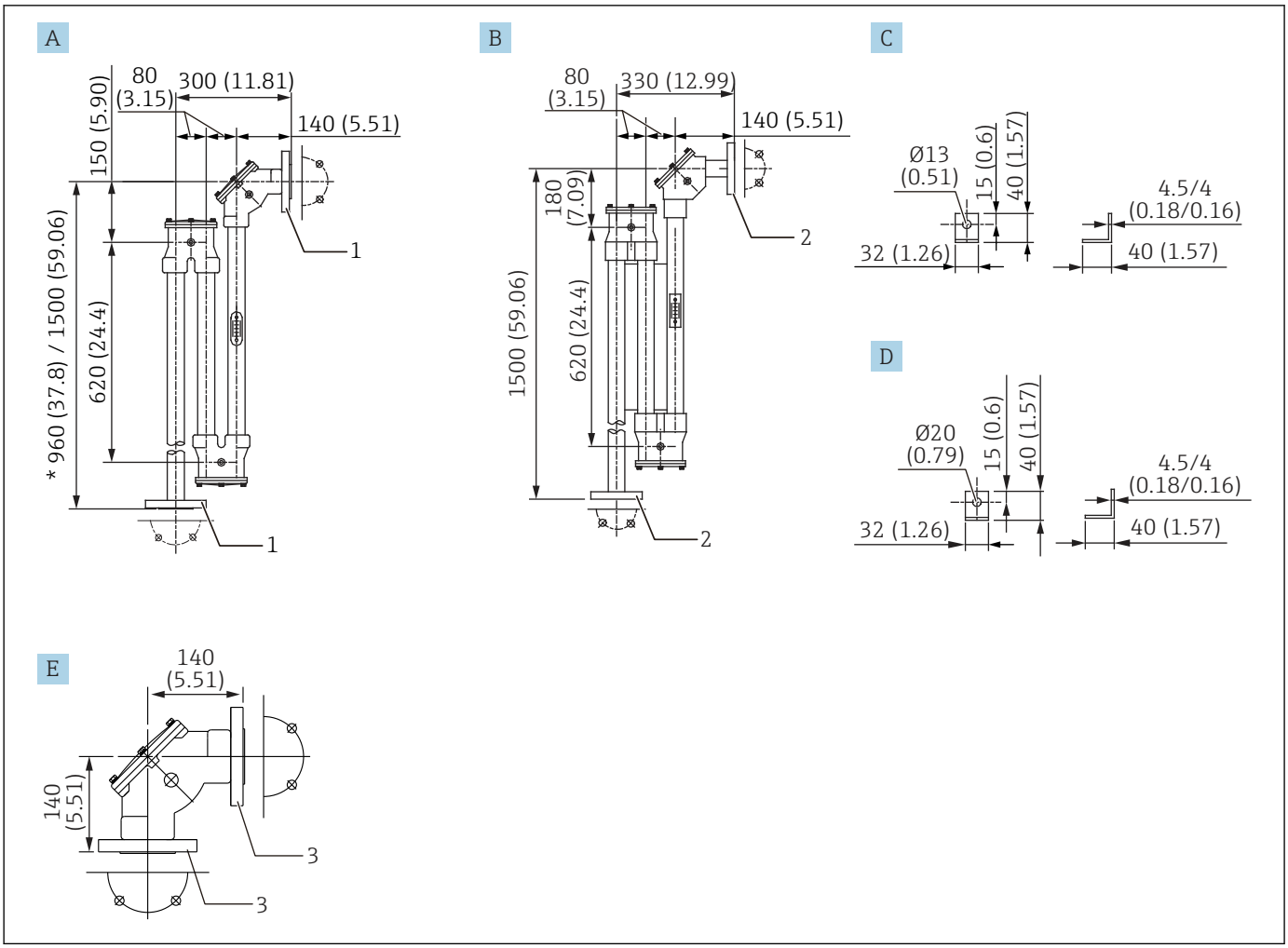
15 *Dimensions of LT5-1. Unit of measurement mm (in)*

A Gauge head (ADC12)
B Float φ140 (SUS316)
C Float φ400 (SUS316)
D Float φ140 (PVC)
E Float φ400 (PVC)
1 Flange (select from JIS 10K 40A RF / ASME NPS 1-1/2" Cl. 150 RF / JPI 40A 150 lbs RF)



16 *Accessory 1 . Unit of measurement mm (in)*

A Gauge supporter (select from iron (SS400), t: 4.5 mm (0.18 in) / SUS304, t: 4 mm (0.16 in))
B Top anchor (ADC6+AC4A)
C Top anchor (SUS316)
D Top anchor (PVC)
1 Flange (select from JIS 10K 40A RF / ASME NPS 1-1/2" Cl. 150 RF / JPI 40A 150 lbs RF)
2 Flange (select from JIS 10K 40A FF / ASME NPS 1-1/2" Cl. 150 FF / JPI 40A 150 lbs FF)



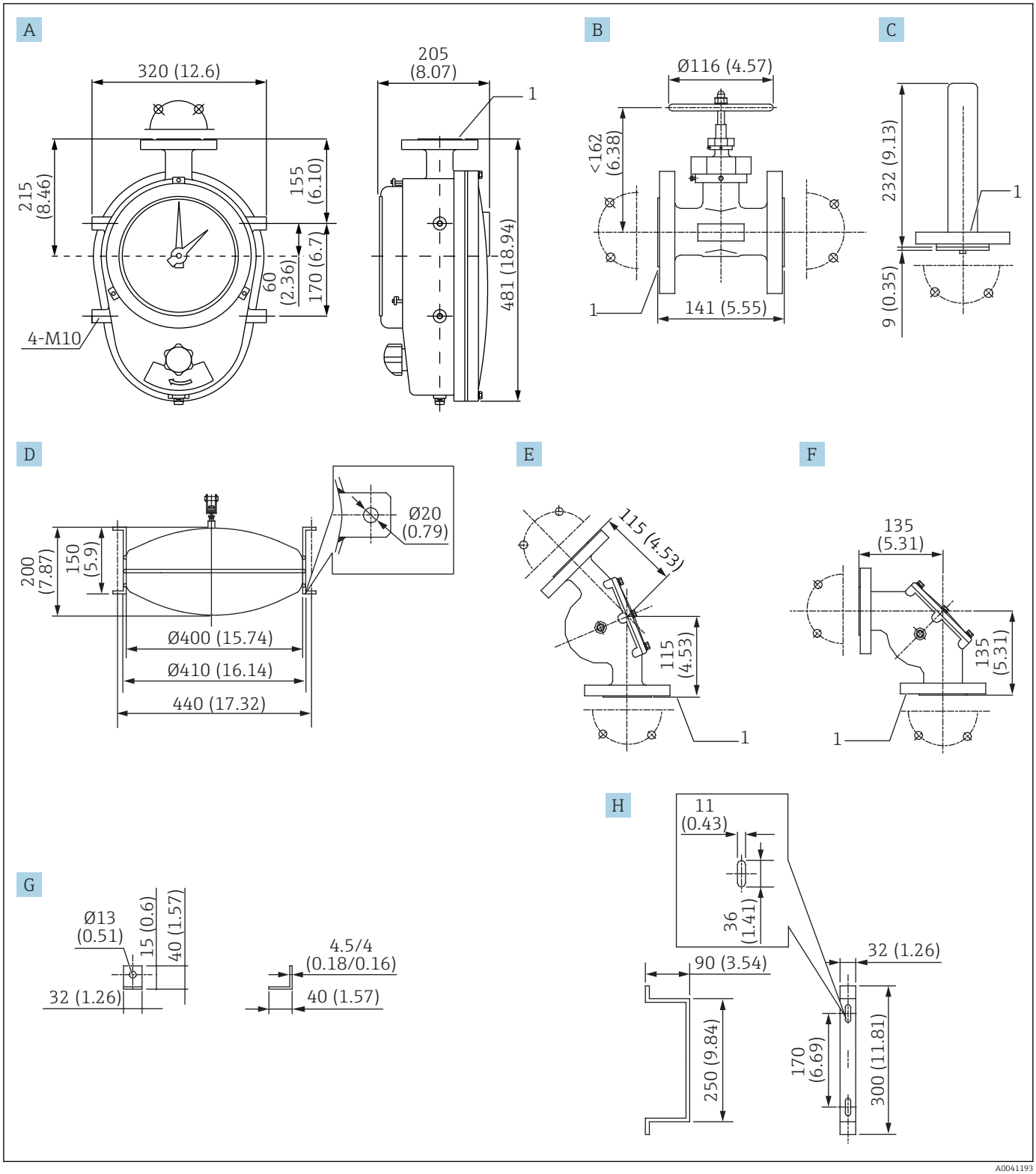
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17 *Accessory 2. Unit of measurement mm (in)*

A Seal pot (select from aluminum + iron / SCS14+SUS316; see notes below)
B Seal pot (PVC: flange type only)
C Anchor hook (main unit: select from iron / SUS316; bolt: SUS316L)
D Anchor hook (main unit: select from iron / SUS316; bolt: PVC)
E 90 ° sheave elbow (select from ADC6+AC4A / SCS14+SUS316)
1 Flange (select from JIS 10K 40A RF / ASME NPS 1-1/2" Cl. 150 RF / JPI 40A 150 lbs RF)
2 Flange (select from JIS 10K 40A FF / ASME NPS 1-1/2" Cl. 150 FF / JPI 40A 150 lbs FF)
3 Flange (select from JIS 10K 40A RF / ASME NPS 1-1/2" Cl. 150 RF / JPI 40A 150 lbs RF)

- Seal pot: 960 / 1500: 960 mm (37.8 in) is the dimension of a seal pot with a measuring tape alone while 1500 mm (59.06 in) is the dimension of a seal pot with a tape and wire.
- Seal pot: 98 / 75: 98 mm (3.86 in) is the dimension of an aluminum seal pot while 75 mm (2.95 in) is the dimension of a stainless steel seal pot.
- For anchor hook 4.5 / 4, 4.5 mm (0.18 in) is the thickness of an iron anchor hook while 4 mm (0.16 in) is the thickness of a stainless steel anchor hook.
  An anchor hook comes with bolts, nuts, and washers.

Dimensions of LT5-4 (flange type / medium-pressure type)



18 *Dimensions of LT5-4. Unit of measurement mm (in)*

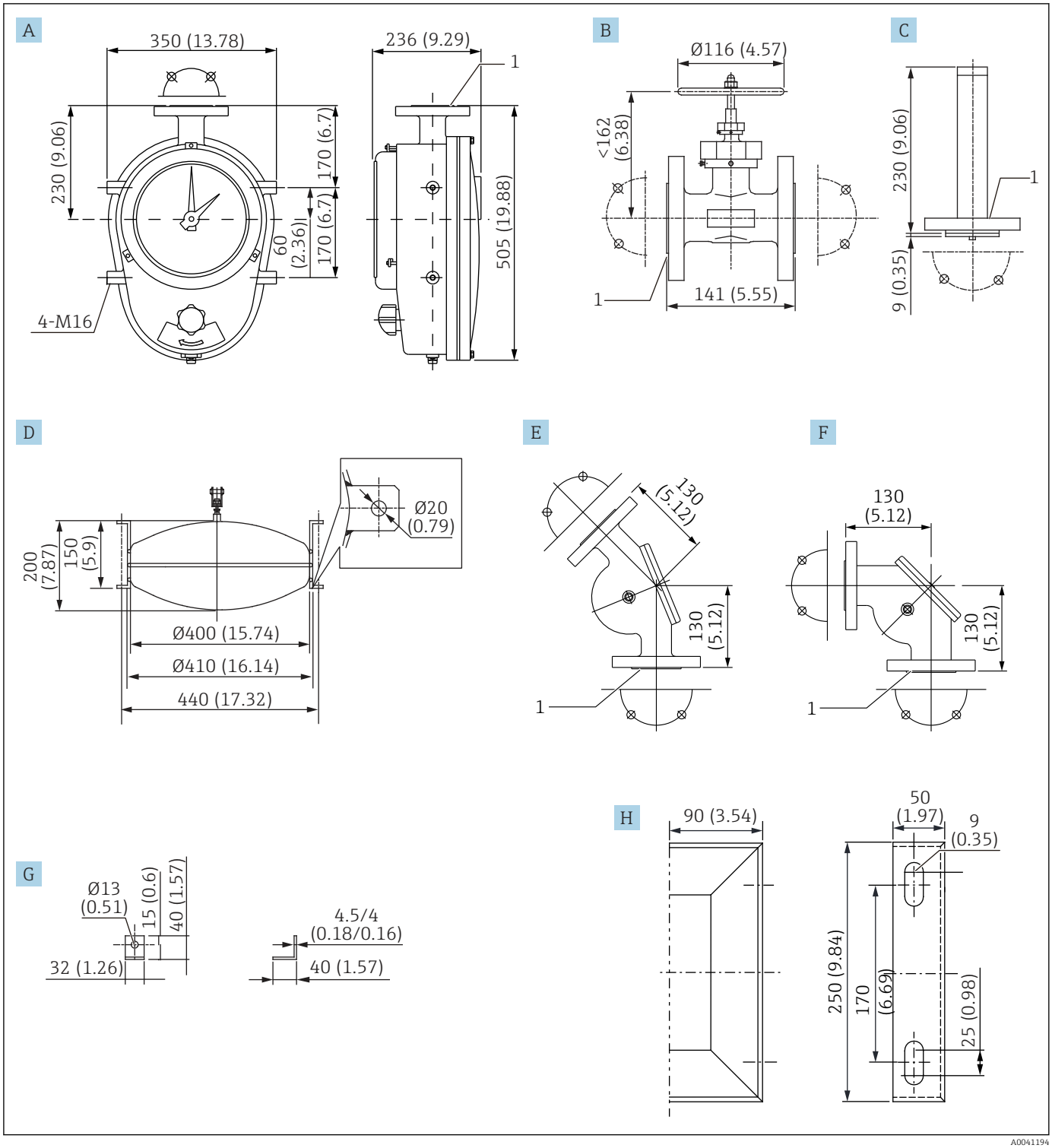
A Gauge head (AC4C-T6)
B Gate valve (SCS13)
C Top anchor (AC4C-T6)
D Float φ400 (SUS316)
E 135 ° sheave elbow (AC4C-T6)
F 90 ° sheave elbow (AC4C-T6)

G Anchor hook (main unit: select from iron / SUS316; bolt: SUS316L)
H Gauge supporter (select from iron (SS400), t: 4.5 mm (0.18 in) / SUS304, t: 4 mm (0.16 in))
1 Flange (select from JIS 10K 40A RF / ASME NPS 1-1/2" Cl. 150 RF / JPI 40A 150 lbs RF)

For anchor hook 4.5 / 4, 4.5 mm (0.18 in) is the thickness of an iron anchor hook while 4 mm (0.16 in) is the thickness of a stainless steel anchor hook.

An anchor hook comes with bolts, nuts, and washers.

Dimensions of LT5-6 (flange type / high-pressure type)



19 *Dimensions of LT5-6. Unit of measurement mm (in)*

A Gauge head (iron (SCPL1))
B Gate valve (SCS13)
C Top anchor (select from iron (STPL/S25C) / SUS316)
D Float φ400 (SUS316)
E 135 ° sheave elbow (iron (SCPL1))
F 90 ° sheave elbow (iron (SCPL1))

G Anchor hook (main unit: select from iron / SUS316; bolt: SUS316L)
H Gauge supporter (select from iron (SS400), t: 4 mm (0.16 in) / SUS304, t: 4 mm (0.16 in))
1 Flange (select from JIS 10K/20K 40A RF / ASME NPS 1-1/2" Cl. 150/300 RF / JPI 40A 150/300 lbs RF)

For anchor hook 4.5 / 4, 4.5 mm (0.18 in) is the thickness of an iron anchor hook while 4 mm (0.16 in) is the thickness of a stainless steel anchor hook.

An anchor hook comes with bolts, nuts, and washers.

Process connections

Specifications		Descriptions
LT5-1	Screw-in, low-pressure type	Rp 1-1/2, w/o union nut, screw JIS B0203 Rc 1-1/2, union nut, SUS316, screw JIS B0203 NPT 1-1/2, union nut, SUS316, screw ANSI
LT5-1	Flange, low-pressure type Flange spec. / flange material	10K 40A RF, aluminum (AC4A), flange JIS B2220 10K 40A RF, SUS316, flange JIS B2220 NPS 1-1/2" Cl. 150 RF, aluminum (AC4A), flange ASME B16.5 NPS 1-1/2" Cl. 150 RF, SUS316, flange ASME B16.5 40A 150 lbs RF, aluminum (AC4A), flange JPI 7S-15 40A 150 lbs RF, SUS316, flange JPI 7S-15
LT5-4	Flange, medium-pressure type Flange spec. / gauge materials	10K 40A RF, aluminum (AC4C-T6), flange JIS B2220 NPS 1-1/2" Cl. 150 RF, aluminum (AC4C-T6), flange ASME B16.5 40A 150 lbs RF, aluminum (AC4C-T6), flange JPI 7S-15
LT5-6	Flange, high-pressure type Flange spec. / gauge materials / bolt materials	10K 40A RF, iron (SCPL1), flange JIS B2220 NPS 1-1/2" Cl. 150 RF, iron (SCPL1), flange ASME B16.5 40A 150 lbs RF, iron (SCPL1), flange JPI 7S-15 20K 40A RF, iron (SCPL1), flange JIS B2220 NPS 1-1/2" Cl. 300 RF, iron (SCPL1), flange ASME B16.5 40A 300 lbs RF, iron (SCPL1), flange JPI 7S-15

Display method

Two-pointer dial type / counter type (min. readable scale: 1 mm)

30 m and 100 ft use the counter method.

Display coupling

Coupling between the internal parts of the gauge head and the display unit

Specifications		Descriptions
LT5-1	Screw-in / flange, low-pressure type	Coupling: Penetration shaft
LT5-4	Flange, medium-pressure type	Coupling: Pressure bulkhead magnet coupling
LT5-6	Flange, high-pressure type	Coupling: Pressure bulkhead magnet coupling

Float

Specifications	Float (D)	Materials	Weight (W)	Cross-sectional area (S)	Height (h)	Volume (V)	Liquid density (g/cm³)
Low pressure	400 mm (15.75 in)	SUS316	4200 g (9.26 lb)	1257 cm^2	10.9 cm (4.29 in)	10520 cm^3	$0.5 \le \rho < 0.65$
			5000 g (11.02 lb)				$0.65 \le \rho < 1.05$
			8000 g (17.64 lb)				$1.05 \le \rho \le 2.0$
		PVC	4200 g (9.26 lb)	1257 cm^2	11.2 cm (4.41 in)	10870 cm^3	$0.5 \le \rho < 0.65$
			5000 g (11.02 lb)				$0.65 \le \rho < 1.05$
			8000 g (17.64 lb)				$1.05 \le \rho \le 2.0$
	140 mm (5.51 in)	SUS316	2100 g (4.63 lb)	154 cm^2	20.0 cm (7.87 in)	2661 cm^3	$0.5 \le \rho < 0.94$
			2400 g (5.29 lb)				$0.94 \le \rho \le 2.0$
		PVC	2100 g (4.63 lb)	154 cm^2	21.0 cm (8.27 in)	2946 cm^3	$0.5 \le \rho < 0.94$

Specifications	Float (D)	Materials	Weight (W)	Cross-sectional area (S)	Height (h)	Volume (V)	Liquid density (g/cm³)
			2 400 g (5.29 lb)				0.94 ≤ ρ ≤ 2.0
Medium/ high pressure	400 mm (15.75 in)	SUS316	8 300 g (18.3 lb)	1 257 cm^2	20.0 cm (7.87 in)	19 200 cm^3	0.5 ≤ ρ ≤ 0.7

Weight

Specifications		Descriptions
LT5-1	Screw-in / flange, low-pressure type	Approx. 8 kg
LT5-4	Flange, medium-pressure type	Approx. 22 kg
LT5-6	Flange, high-pressure type	Approx. 100 kg

Paint color

- Gauge head: Blue
- Other parts: Silver

List of material specifications

Aluminum

Code	Descriptions
ADC12	Aluminum alloy die casting (Al-Si-Cu)
AC4C-T6	Aluminum alloy casting (Al Si7Mg)
AC4A	Aluminum alloy casting (Al Si10Mg)

Stainless steel

Code	Descriptions
SUS304	Stainless steel (18Cr-8Ni)
SUS316	Stainless steel (18Cr-12Ni-2.5Mo)
SCS13	Cast stainless steel equivalent to SUS304
SCS14	Cast stainless steel equivalent to SUS316

Others

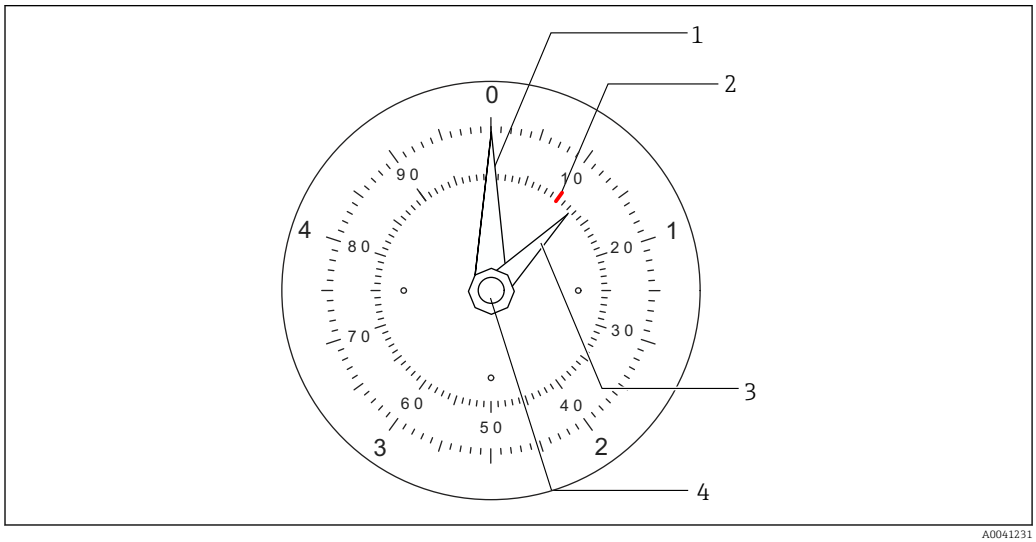
Code	Descriptions
SCPL1	Cast carbon steel
SGP	Steel gas pipe
SGPW	Galvanized steel pipe for water supply
PVC	Polyvinyl chloride
SS40	Carbon steel

Operability

Display

There are two types of LT displays: a two-pointer dial type and a counter type. Select the dial display when the tank height is 20 m or 60 ft or lower. For taller tanks, select the counter display.

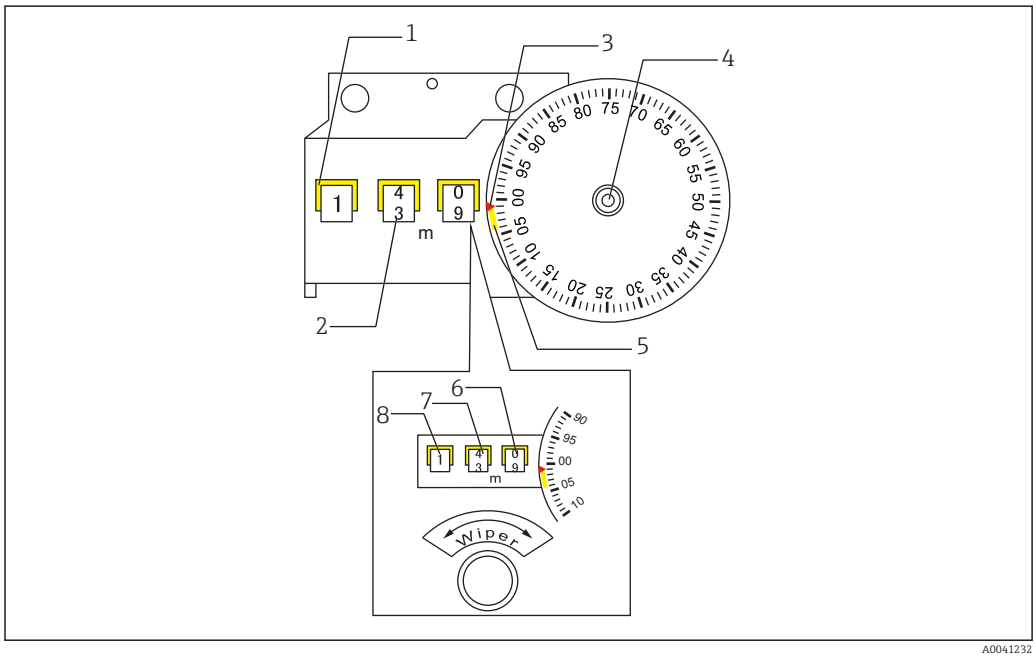
Dial display



20 *Dial display (scale plate for 5 m (16.4 ft))*

1 *Long pointer (white)*
2 *Example: 10 mm position*
3 *Short pointer (green)*
4 *Cap nut*

Counter display



21 *Counter display*

1 *Counter (yellow)*
2 *Counter (black)*
3 *Pointer (red)*
4 *Thread*
5 *Range (yellow)*
6 *No. 1 drum*
7 *No. 2 drum*
8 *No. 3 drum*

Certificates and approvals

Protection class	Waterproof: IP65

Order information

Detailed ordering information is available from the following sources:
- In the Product Configurator on the Endress+Hauser website: www.endress.com -> Click "Corporate" -> Select your country -> Click "Products" -> Select the product using the filters and search field -> Open product page -> The "Configure" button to the right of the product image opens the Product Configurator.
- From your nearest Endress+Hauser sales organization: www.addresses.endress.com

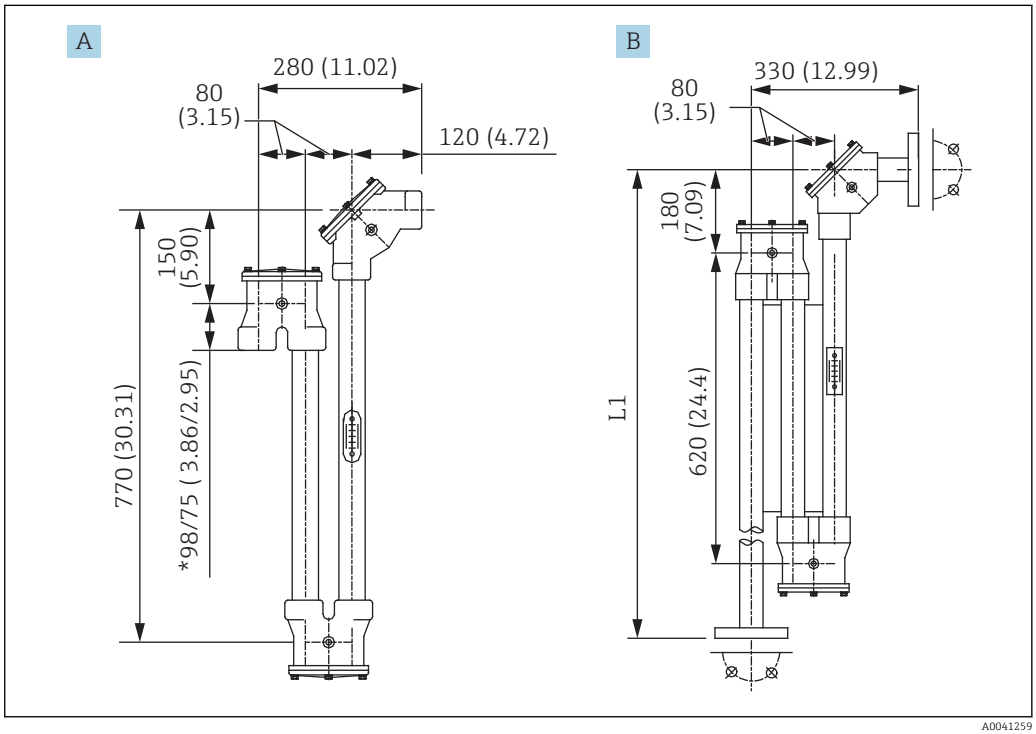
Product Configurator - the tool for individual product configuration
- Up-to-the-minute configuration data
- Depending on the device: direct input of information specific to the measuring point, such as the measuring range or operating language
- Automatic verification of exclusion criteria
- Automatic creation of the order code and its breakdown in PDF or Excel output format
- Ability to order directly in the Endress+Hauser Online Shop

Accessories

Seal pot

A seal pot is filled with liquid sealant to prevent vapor from escaping the tank.

Liquid sealant	Flow paraffin (spindle oil): When an LT5 that comes with a 1 150 cc seal pot is selected, liquid sealant is also included.
Maximum sealing pressure	400 mm H_2O
Form	U-shaped
Connection specification	Screw-in type / flange type



22 *Seal pot. Unit of measurement mm (in)*

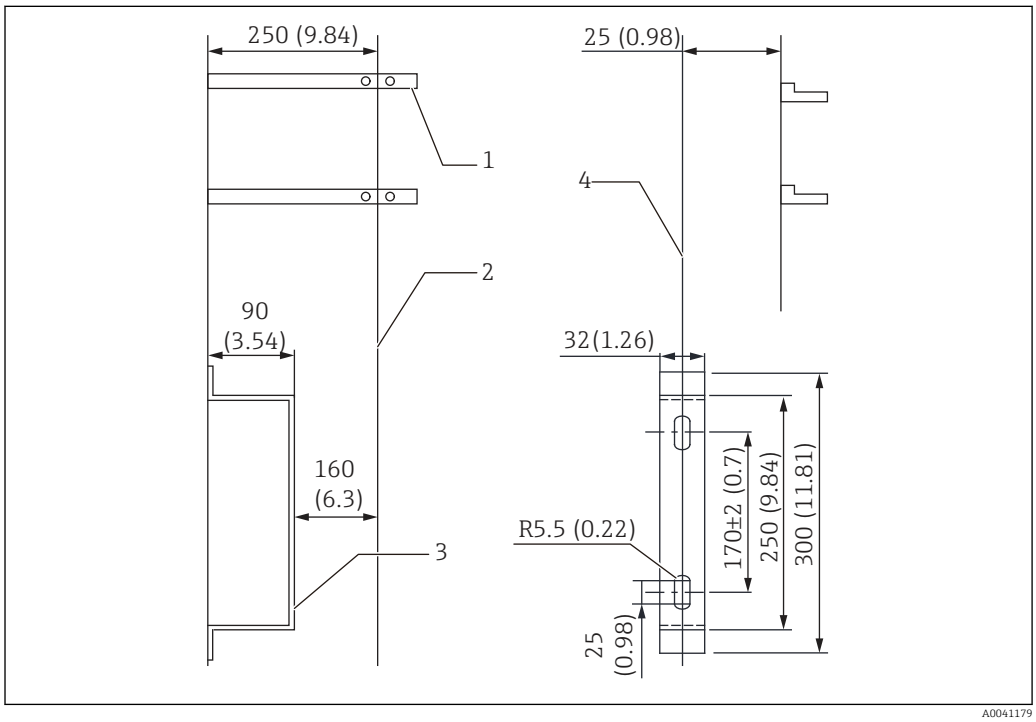
A Seal pot (select from aluminum + iron / SCS14+SUS316)
B Seal pot (PVC: flange type only)
L1 Tape + wire: 1 500 mm (59.06 in) / tape only: 960 mm (37.8 in)

For seal pot 98 / 75, 98 mm (3.86 in) is the dimension of an aluminum seal pot while 75 mm (2.92 in) is the dimension of a stainless steel seal pot.

Gauge supporter

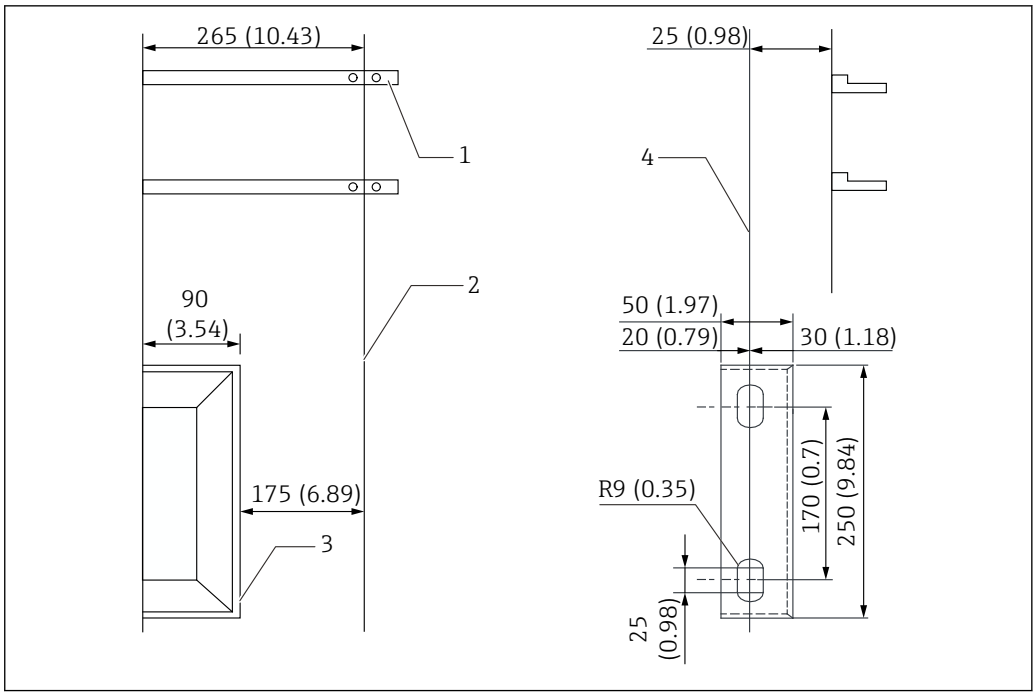
A gauge supporter is used for mounting the gauge on the external wall of a tank. Note that pipe supporters are not supplied.

The distance from the outer tank wall to the gauge head center is 15 mm (0.59 in) longer for LT5-6 (high-pressure gauge head) compared to LT5-1 (low-pressure gauge head) and LT5-4 (medium-pressure gauge head).



23 Gauge supporter (for low and medium pressure). Unit of measurement mm (in)

1 *Pipe supporter (not supplied)*
2 *Center line for mounting*
3 *Gauge supporter (based on the selected option SS400: t = 4.5 / SUS304: t = 4.0)*
4 *Center line of the gauge supporter*



24 Gauge supporter (for high pressure). Unit of measurement mm (in)

1 Pipe supporter (not supplied)
2 Center line for mounting
3 Gauge supporter (based on the selected option SS400: t = 4 / SUS304: t = 4.0)
4 Center line of the gauge supporter

Guide pipe

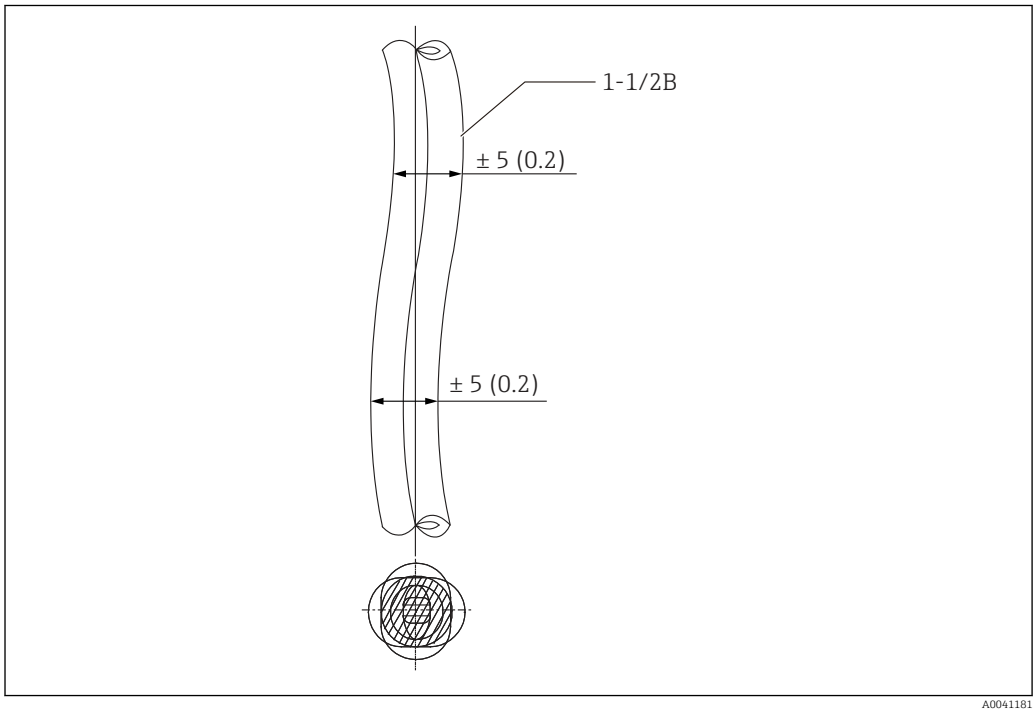
Guide pipe selection and mounting

Guide pipe mounting is required for most applications, except for tank top and underground applications. Guide pipes are generally used in three areas:

- Gauge head to sheave elbow
- Sheave elbow to sheave elbow
- Sheave elbow to tank roof

Precautions regarding mounting

- Guide pipes and pipe supporters are not supplied by Endress+Hauser.
- Keep the bend in the guide pipe to 5 mm (0.17 in) or less.
- The space between two sheave elbows (piping distance) must not exceed 2.5 m (8.2 ft).



25 *Mounting guide pipes. Unit of measurement mm (in)*

NOTICE

Recommended materials for guide pipes

▶ Only use galvanized SGP (white pipe) or SGPW for guide pipes. When the application involves use of a corrosive gas, use of rigid PVC pipes, stainless steel pipes, or resin inner lining is recommended.

Mounting and enclosed accessories

Ordering information: 610 mounting accessories

NA	Copper-free gearing	If copper materials are used in the gear mechanism for whatever reason, the material is switched to something else, such as aluminum or stainless steel. The magnet coupling and drain plug sealant will be changed from NBR to CR. It is effective for applications such as those involving ammonia. As a general rule, copper materials cannot be used for the gear mechanism.
NB	Custody transfer seal	This is an option in which a hole is created on the rear cover of the main unit and the bolt for the display cover. Subsequent to bonded approval, a displacer wire for sealing may be inserted.
NC	Fixed tape guide (aluminum)	This is an option for securing the tape inside so that it does not become detached. Standard LT5-1 is made of stainless steel. Aluminum LT5-4 and LT5-6 are mounted as a standard item. For applications where there is a risk of hunting on the float, we recommend an aluminum material regardless of the low-, medium-, or high-pressure specifications.
ND	Dust guard	This is an internal component that prevents dust, which is generated when iron pipes are used, from entering the gear inside the gauge head. LT5-4 and LT5-6 are mounted as standard items.
NE	Conster winding drum: Aluminum	This is a conster winding drum made of aluminum. It is effective when a standard conster winding drum made of Bakelite cannot be used. An aluminum conster winding drum is standard for LT5-4 and LT5-6.

Ordering information: 620 enclosed accessories

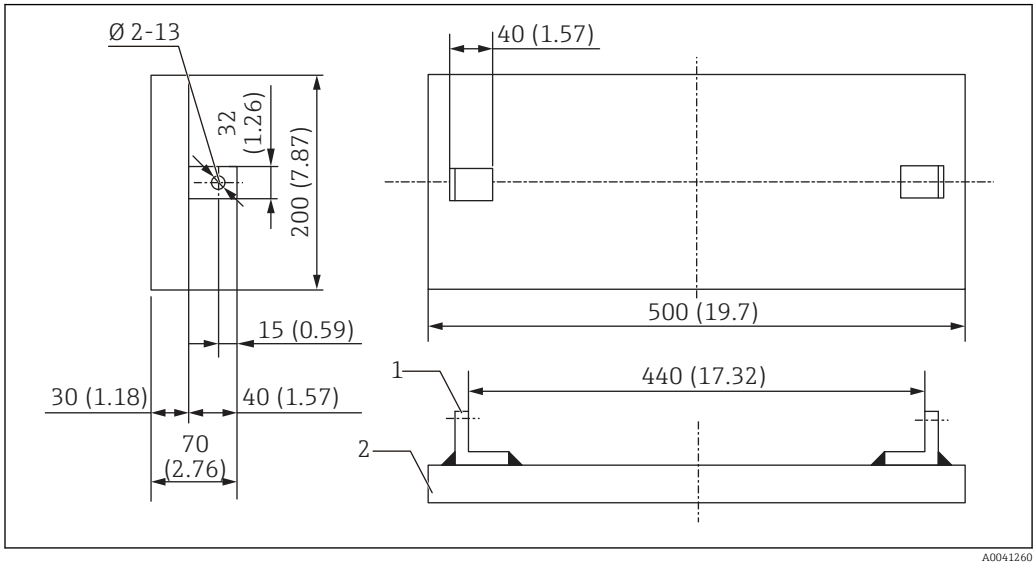
PE	FRT wire guide metal	This wire guide is installed on the floating roof. It protects the measuring wire from wear due to contact with the roof.
PF	Wire guide socket Rc 1-1/2	This is a socket for mounting on the pipes of a floating roof tank or a gas holder tank. It protects the measuring wire from wear due to contact with the pipes.
PG	Wire guide socket NPT 1-1/2	
PH	Gas holder wire hook	This hook is welded onto a gas holder tank and connected to a measuring wire.

Anchor weight

When an anchor hook cannot be installed at the bottom of the tank (such as when there is liquid inside the tank), use an anchor weight to keep the guide wire taut.

Materials	SS400 / SUS316
Weight	Approx. 23 kg (50.71 lb)

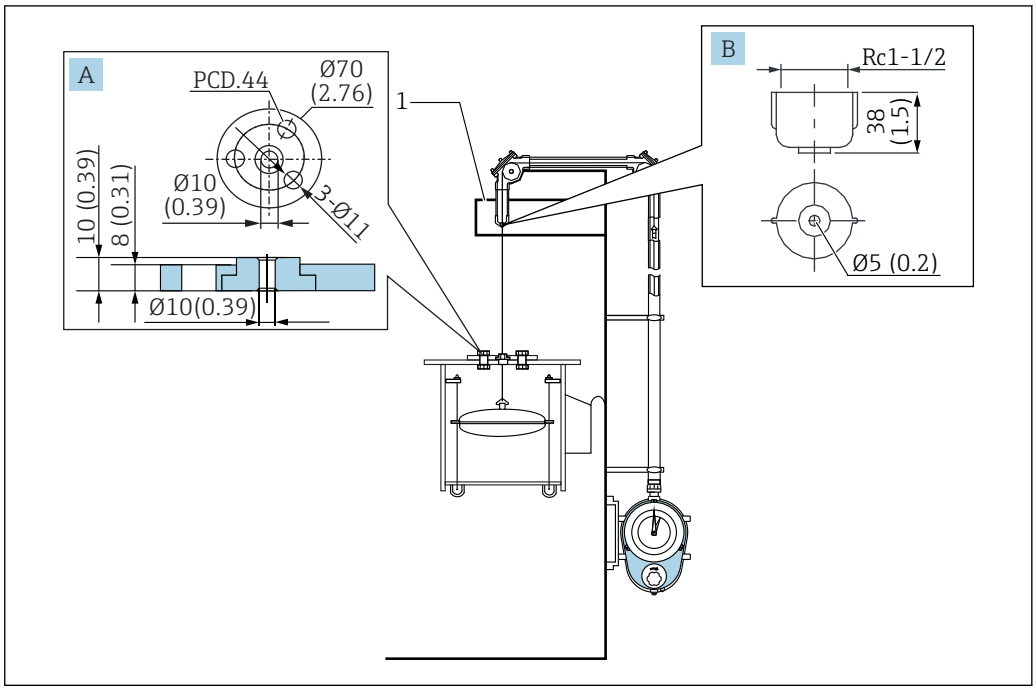
Special specification is required in order to use this anchor weight.



26 *Anchor weight. Unit of measurement mm (in)*

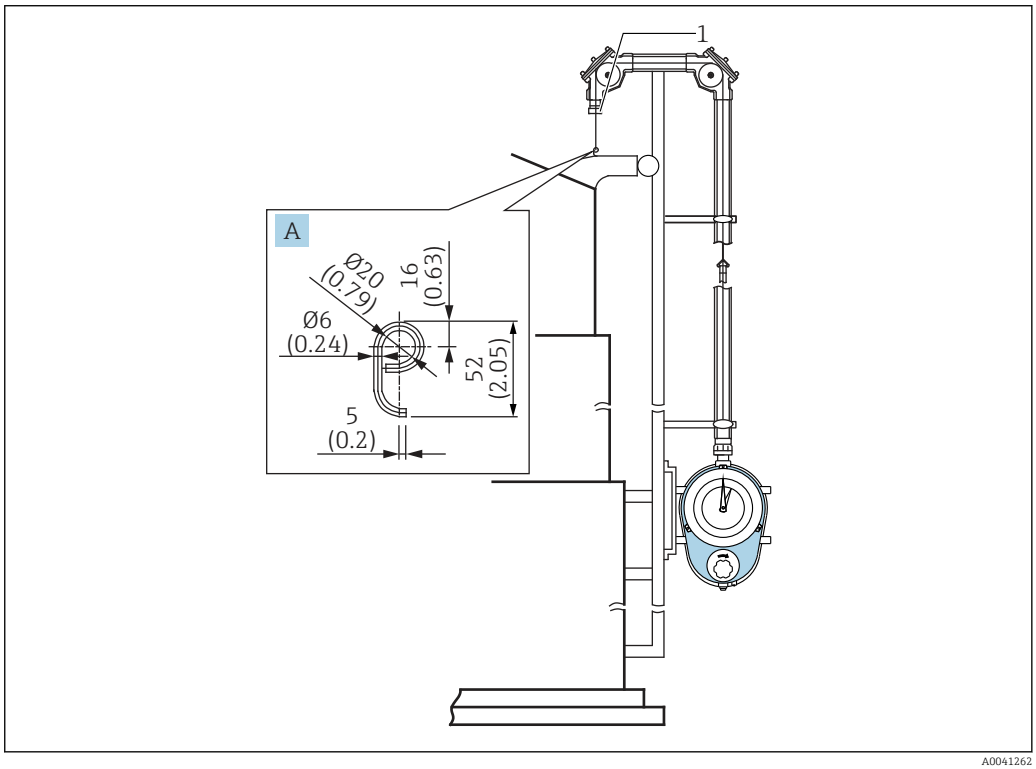
1 *Anchor hook*
2 *Anchor weight*

Wire guide metal and wire guide socket



27 *Wire guide metal and wire guide socket. Unit of measurement mm (in)*

A Wire guide metal
B Wire guide socket
1 Roof stand



28 *Wire hook and wire guide socket. Unit of measurement mm (in)*

A Wire hook
1 Wire guide socket



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