ABB MEASUREMENT AND ANALYTICS | DATA SHEET

KM26T

Top mount magnetic level gauge



Measurement made easy

Innovative level measurement solutions

Features

- Highly visible level indication with no process fluid in contact with the glass
- All construction is controlled by ABB and welding is performed by code certified welders
- Float designed and weighted for maximum accuracy with 75 grams minimum upward buoyant force
- Transmitter and switch options which can be installed, adjusted and maintained with no process interruption
- Safe for corrosive, flammable, toxic, high–temperature and high–pressure applications
- Rugged design – low or no maintenance

Available materials

- Stainless steel – 304/304L, 316/316L, 317/317L, 321, 347, 904
- Alloy 20
- Hastelloy® C–276
- Incoloy 600, 625, 800, 825
- Titanium
- Zirconium
- Monel
- For other materials consult factory

Process capabilities

- full vacuum to 5000 PSI / 345 BAR
- –320 to 1000 °F/ –196 to 538 °C
- 0.25 min. specific gravity
- all liquid viscosities
- interfaces as low as .03 ΔSG

Testing and documentation available upon request

- liquid dye penetrant examination
- hydrostatic examination
- PMI (positive material identification) material certification
- ASME “U”, “UM” or “S” stamp
- third party inspection
- material certificates
- ANSI/ASME B31.1, B31.3
- NACE MR0103, NACE MR0175
- Canadian registration number (CRN)
- mechanical function test
- float curves (total level only)
- ATEX/IECEx – constructional safety with non-exotic materials construction
- IP68 visual indicator (scale assembly)

Selecting the KM26T

Selecting the appropriate KM26T configuration for a specific application is important. Use these questions to determine your requirements.

What is the process fluid?

- specific gravity
- operating / design temperature
- operating / design pressure
- total or interface level

What are the gauge body details?

- material of construction
- maximum pressure & temperature requirement
- necessary level range (liquid level fluctuation; often the vessel height)

What are the process connection details?

- size
- type
- rating

What style of indicator is preferred?

- flag (yellow/black, red/white, custom colors)
- shuttle (orange/black, also known as follower or birdie) – high visibility

What measuring scale is required?

- level (inches, feet, meters)
- volume (gallons, liters, custom)
- percent

What accessories are necessary?

- switch (point–level)
- level transmitter; what communication protocol?
- frost extension (prevents ice build–up from blocking a direct view to the indicator)
- heat tracing (electric or steam)
- insulation: high–temp (fiberglass) or low–temp (cryogenic foam)

Installation considerations

- A stilling well is recommended for insertion lengths (IL) greater than 24” or if turbulent conditions exist.
- KM26T options using a stilling well are available with maximum insertion lengths (IL) to 10 feet (120 inches). Consult factory for longer length

Overview

Helping to keep worldwide infrastructure at a safe level, day–in and day–out

Key features

Engineered to order

No electric power

Integrate transmitters, switches & accessories

Adaptable solution

Non–invasive magnetic indicator

Installation and service

No field calibration

5-year warranty







Fast and easy

Easy start–up and low maintenance

Fully factory assembled with all quality

Industrial design and world class manufacturing

NDE, PMI, NACE tests

ASME U, UM or S stamping

Wide range of applications: oil and gas, petrochemical, chemical, power and more

Wide environmental and process conditions

RoHS 2.0

ATEX/IECEx

Ex

IP 68

–196°C to 537°C

Up to 345 bar / 5000 psi

...Overview

KM26 magnetic level gauge	Advantages for you
	Full fabrication, assembly and accessories installed, tested and calibrated and shipped from factory results in lower cost of ownership
	No piping modifications or process interruptions to add transmitters and switches to a KM26 results in lower cost of ownership
	Superior float design results in increased accuracy of level measurement increasing the energy efficiency and throughput.
	Easy blow down or flush of chamber, no disassembly required; minimum spare parts requirements resulting in increase in productivity
	Fewer potential leak points, no hazardous liquids in the indicator; no glass under high pressure or temperature

...Overview

Industry leader for safe and reliable level measurement– your benefits at a glance

A robust design
Custom engineered to the process application (Length, pressure, temperature, and specific gravity) ASME, ATEX/IECEx, CRN, IP68, RoHS compliance, no segments therefore much less piping & field fabrication, no torquing or re–torquing of cover bolts to stop leaks, much easier start–up

Communication without interruption
Increased safety as the transmitters , switches and hermetically sealed scale assembly mounted externally communicates reliably with the strong magnetic float inside the chamber

Reduce
Total cost of ownership, no recalibration, minimize maintenance

Safety
No potential leak points for fugitive emissions and glass not under high pressure or temperature

Reliable performance
Superior visibility with the bargraph indicators



Modular and intuitive design
Flexibility and a tailored solution with on-site upgrade of transmitters and switches

Non–invasive
Scale assembly, transmitters and switches are added/adjusted without pipe modification or process interruptions

A solution for every application
all KM26's shipped fully assembled and tested with all accessories

Ordering information

Mandatory characteristics	**KM26T**	XXX	XXX	XX	XX	XXXX	XX	XX
Chamber material								
Select from table 1								
Connection material								
Select from table 1								
Process connection code option								
Select from table 2								
Process connection size and rating								
Select from table 3 [1]								
Indicator type								
High Visibility Shuttle with Permanently Sealed Lexan® Tube (250 °F/121 °C max) [4]						S3P		
High Visibility Shuttle with Hermetically Sealed Glass Tube (1000 °F/538 °C max) [4]						S3G		
Yellow/Black MBG with Permanently Sealed Lexan® Tube (250 °F/121 °C max) [5, 4]						M1P		
Red/White MBG with Permanently Sealed Lexan® Tube (250 °F/121 °C max) [2, 4]						M2P		
Red/Green MBG with Permanently Sealed Lexan® Tube (250 °F/121 °C max) [2, 4]						M3P		
Red/Black MBG with Permanently Sealed Lexan® Tube (250 °F/121 °C max) [2, 4]						M4P		
Yellow/Black MBG with Hermetically Sealed Glass Tube (650 °F/343 °C max) [3, 4]						M1G		
Red/White MBG with Hermetically Sealed Glass Tube (650 °F/343 °C max) [3, 4]						M2G		
Red/Green MBG with Hermetically Sealed Glass Tube (650 °F/343 °C max) [3, 4]						M3G		
Red/Black MBG with Hermetically Sealed Glass Tube (650 °F/343 °C max) [3, 4]						M4G		
Yellow/Black MBG with Acrylic Frost Extension for –100 °F/–73 °C min; (250 °F/121 °C max) [2, 4]						CM1A		
Red/White MBG with Acrylic Frost Extension for –100 °F/–73 °C min; (250 °F/121 °C max) [2, 4]						CM2A		
Red/Green MBG with Acrylic Frost Extension for –100 °F/–73 °C min; (250 °F/121 °C max) [2, 4]						CM3A		
Red/Black MBG with Acrylic Frost Extension for –100 °F/–73 °C min; (250 °F/121 °C max) [2, 4]						CM4A		
Yellow/Black MBG with Acrylic Frost Extension for –200 °F/–129 °C min; (250 °F/121 °C max) [2, 4]						CM1B		
Red/White MBG with Acrylic Frost Extension for –200 ºF/–129 °C min; (250 °F/121 °C max) [2, 4]						CM2B		
Red/Green MBG with Acrylic Frost Extension for –200 °F/–129 °C min; (250 °F/121 °C max) [2, 4]						CM3B		
Red/Black MBG with Acrylic Frost Extension for –200 °F/–129 °C min; (250 °F/121 °C max) [2, 4]						CM4B		
Yellow/Black MBG with Acrylic Frost Extension for –320 °F/–196 °C min; (250 °F/121 °C max) [2, 4]						CM1C		
Red/White MBG with Acrylic Frost Extension for –320 °F/–196 °C min; (250 °F/121 °C max) [2, 4]						CM2C		
Red/Green MBG with Acrylic Frost Extension for –320 °F/–196 °C min; (250 °F/121 °C max) [2, 4]						CM3C		
Red/Black MBG with Acrylic Frost Extension for –320 °F/–196 °C min; (250 °F/121 °C max) [2, 4]						CM4C		
None						X		
Indicator scale / ruler								
No indicator channel (must select 'X' for indicator type)							X	
SS channel; no scale [8]							A	
SS channel; SS scale marked in ft / inches with ½ in. divisions (from 0 to 50 ft. standard) [7, 8]							B	
SS channel; SS scale marked in meters/centimeters with 1 cm divisions [5, 7, 8]							C	
SS channel; SS scale marked in running inches with ½ in. divisions [6, 7, 8]							D	
SS channel; SS scale marked in running inches with ⅛ in. divisions [6, 7, 8]							E	
SS channel; custom SS scale (%, gallons, liters, etc.); provide details of custom scale separate from model #.							F	
SS indicator channel; one "B" type (feet / inches) standard scale (from 0 to 50 ft, standard) [8] and one custom SS scale							BS	
SS indicator channel; one "C" type (meters / centimeters) standard scale [5, 8] and one custom SS scale							CS	
SS indicator channel; one "D" type (running inches with ½ in divisions) standard scale [6, 8] and one custom SS scale							DS	
SS indicator channel; one "B" type (running inches with ⅛ in divisions) standard scale [6, 8] and one custom SS scale							ES	
SS indicator channel; Two custom SS scales							FS	
Custom							Z9	
Approvals								
No approvals								X
ATEX/IECEx, construction safety								U4

Notes:

1. 'Z9' shall be specified for sizes and ratings not listed in table 3.
2. Add 'IH' as an "additional ordering code" to include insulation pad behind the indicator to increase the temperature rating to 350 °F / 177 °C.
3. Add 'IHT' as an "additional ordering code" to include insulation pad and TEMP–COAT® behind the indicator and transmitter / switch if (applicable) to increase the MBG temperature rating to 1000 °F / 538 °C. (The 'IHT' option is not used when chamber insulation with TEMP–COAT® ordering codes IH2T, IH2DT, IH3T and IH3DT are selected.)
4. Add 'F' as a suffix to the indicator type when "float failure" indication is required.
5. Standard rulers begin with 0 cm but can be specified from –100 cm to 10 meters.
6. Standard rulers begin with 0 inches but can be specified from: ½ in. divisions: –48 in. to 216 in. OR ⅛ in. divisions: –48 in. to 144 in.
7. Custom rulers available (consult factory – choose F)
8. Standard scale / ruler is positioned to the left of the indicator tube (when facing the indicator.)

Additional ordering codes	
Special	
Anything not included in the below additional ordering codes will be considered a special and designated as such with a “Z99”.	Z99
Heat / electric tracing	
Steam trace tubing	TT1
Electric tracing; Class I, Div. 2, Gp BCD; (221 °F/(105 °C) max; fixed setpoint control[2, 5]	ET1xx
Electric tracing; Class I, Div. 2, Gp BCD; (400 °F/(204 °C) max; adjustable setpoint control[2, 5]	ET2x
Electric tracing; Class I, Div. 1, Gp CD; 800 °F /(427 °C) max; adjustable setpoint control[2, 5]	ET3
Other	
Switch mount rod (high temperature option for KM26 switches)	RD
Insulation	
High temperature insulation pad[4]	IH
High temperature insulation pad with Temp–Coat (See note 6 under “indicator type”)[4]	IHT
High temperature insulation; float chamber only; (250 °F/121 °C) max[1]	IH1
High temperature insulation; float chamber and vent / drain flanges; (250 °F/121 °C) max[1]	IH1D
High temperature insulation; float chamber only; (500 °F/260 °C) max[1]	IH2
High temperature insulation; float chamber and vent / drain Flanges; (500 °F/260 °C) max[1]	IH2D
High temperature insulation; float chamber only; (1000 °F/538 °C) max[1,3]	IH2T
High temperature insulation; float chamber and vent / drain flanges; (1000 °F/538 °C) max[1,3]	IH2DT
High temperature insulation; float chamber only; (1000 °F/538 °C) max [1,3,6]	IH3
High temperature insulation; float chamber and vent / drain flanges; (1000 °F/538 °C) max [1,3,6]	IH3D
High temperature insulation; float chamber only; (1000 °F/538 °C) max [1,3,6]	IH3T
High temperature insulation; float chamber and vent / drain flanges; (1000 °F/538 °C) max [1,3,6]	IH3DT
Cryogenic insulation; 2 in. Thick; single layer; (350 °F/177 °C) max; (–100 °F/–73 °C) minimum	IL1
Cryogenic insulation; 3” thick; double layer; (350 °F/177 °C) max; (–200 °F/–129 °C) minimum	IL2
Cryogenic insulation; 4” thick; double layer; (350 °F/177 °C) max; (–320 °F/–196 °C) minimum	IL3

Notes:
1 ABB recommends chamber insulation for personnel safety.
2 Specify power supply 1) 110/120, 2) 220/240, 3) 277, or 4) 440/480 VAC; (ex. ET21 with 110/120 VAC power supply). For ET1xx series only, specify setpoint A) 35°, B) 45°, C) 60°, D) 90° or E) 185 °F (1.7°, 7.2°, 15.6°, 32.2°, or 85 °C) (ex. ET11A = ET1 with 110/120 VAC power supply and a setpoint of 35 °F).
3 This option is only used when a MBG indicator type is selected AND the maximum temperature exceeds 650 °F/343 °C.
4 This insulation option is not allowed with shuttle indicators (S3P, S3G).
5 This option is not allowed with U4 approval code for ATEX/IECEx constructional safety.
6 This option cannot be used with transmitters or switches as this insulation is thicker than IH1 and IH2 options.

Note: The following accessories/services selected will not appear in the model # on engineering drawings or nameplates.

Engineering documents	
Drawings for approval	GD1
Drawings for record	GD2
Certified as built drawings	GD3
Weld map (per tag)	GD4
Inspection and test plan	GD5
Float curve	GD6
Liquid dye penetrant – per tag	
Liquid dye penetrant examination on all pressure containing welds (final pass only)	CNA
Liquid dye penetrant examination on all pressure containing welds (root and final pass)	CNB
Liquid dye penetrant examination on all welds (final pass only)	CNE
Positive material identification	
Positive material identification with carbon content	CHC
Positive material identification without carbon content	CHD
Hydrostatic examination	
Hydrostatic examination – (10 minutes)	CP1
Hydrostatic examination with chart recording – (30 minutes)	CP2
Hydrostatic examination with chart recording – (60 minutes)	CP3
Hydrostatic examination with chart recording – (120 minutes)	CP4
Custom hydrostatic examination	CPZ
Additional Services	
RoHS compliance**	K5
Ultrasonic testing – thickness testing	CH6
Ultrasonic testing – shear wave	CHS
Magnetic particle inspection / testing	CH5
Painting with standard ABB K–TEK paint (carbon steel non–wetted surfaces only)	STP
Special painting or surface treatment per customer specification	STS
Post weld heat treatment	CH7
Equipment weight documentation	GW1
Hardness testing (per customer specification)	CHV
Helium leak test on pressure bearing parts	C7
Intergranular corrosion destructive test	CHA
Corrosive test	CHB
Charpy test	CHE
Certificate of surface finish	CHF
Certificate of pickling and passivation	CHP
Ferrite Testing	CHW
Third Party Inspection	CHT
Hydrostatic examination of float	CP5

** RoHS compliance–restricted materials like cadmium plated items not allowed

Note: The following accessories/services selected will not appear in the model # on engineering drawings or nameplates.

ASME code stamp*†	
ASME code stamp U	CSU
ASME code stamp UM	CSM
ASME code stamp S	CSS
Material monitoring	
Material monitoring with inspection certificate 3.1 acc. EN 10204 (MTR)	C2
Material monitoring with inspection certificate 3.2 acc. EN 10204 (MTR)	C3
Manufacturer's Data Records	
ABB standard manufacturer's data records indexed (all requested testing, drawings, certificates, etc) as a single document and electronically transferred with no customer approvals required	CD1
Special manufacturer's data records, indexed	CDZ
Origin documents	
Certificate of origin	GS1
Certificate of origin notarized by local chamber of commerce	GS2
Certificate of origin legalized by specific country chamber of commerce – lead time may be extended depending on country	GS3
Korean foreign trade certificate	GS4
NAFTA certificate	GS5
EX–IM BANK certificate (one per tag)	GS6
Approved material list*	
Country of origin – material source limitations apply	MS1
Approved material list	GS7
Welding options	
Full penetration welds only	FWP
TIG welding only	FWT
Certifications	
Certificate of compliance for ANSI / ASME*†	CK
General certificate of compliance	CL
Certificate of functionality (mechanical function test)	CU3
Canadian registration number*†	CRN
Calibration certificate of hydrotest equipment†	CPE
NACE	
NACE (MR 0103) hardness certificate*	CN1
NACE (MR 0175 / ISO 15156) hardness certificate*	CN3

*Requires C2 or C3 in material monitoring

†Requires CP1, CP2, CP3, CP4 or CPZ in hydrostatic examination

Table 1

Connection material	
321 SS	SS1
304 / 304L SS	SS4
316 / 316L SS	SS6
317 / 317L SS	SS7
347 SS	S47
904 SS (700 °F / 371 °C Max)	SS9
Hastelloy® C–276	HSC
Titanium (Grade 2) (600 °F / 316 °C Max)[2]	TI
Alloy 20 (800 °F / 427 °C Max)	A20
Alloy 600	I60
Alloy 625	I62
Alloy 800	I80
Alloy 825	I82
Zirconium 702 (700 °F / 371 °C Max)[2]	ZI2
Monel® 400 (900 °F / 482 °C Max)	MO
Carbon Steel (–20 °F / –29 °C Min)[1]	CST
Low Temperature Carbon Steel (–50 °F / –46 °C min.)[1]	LCS
Duplex® Stainless Steel (600 °F / 316 °C max.)[1]	DUP
Other material type (specify separately)	Z9

1 Not available as a chamber option. When CST, LCS and DUP materials are chosen, all parts which are not welded directly to the side of the chamber can be of those same material types.

2 This is not available as a chamber, connection, or float material with U4 approval code for ATEX/IECEx constructional safety.

* Hastelloy® (registered trade mark of Haynes International, Inc.)

* Monel® (registered trademark of the INCO)

* Duplex® (registered trademark of Leupold and Stevens, Inc.)

* TEMP–COAT® (Registered trademark of Southern Professional Leasing Inc. DBA Span–World Distribution Corporation

Required dimensional information (specify in inches or mm):

Insertion Length (IL) and Measuring Length (ML) dimensions.

Important note:

The information above is provided for the customer to indicate specific requirements. Other sizing and ratings not specified will be selected by the factory based on standard design and manufacturing practices using temperature, pressure and specific gravity data.

Chamber configuration

Process Connection Code

Table 2

Process Connection Code	
Indicator with Flange	H0
Indicator with Flange and removable Stilling Well	H1
Indicator with MNPT Plug	H2
Indicator with MNPT Plug with integral Stilling Well	H3

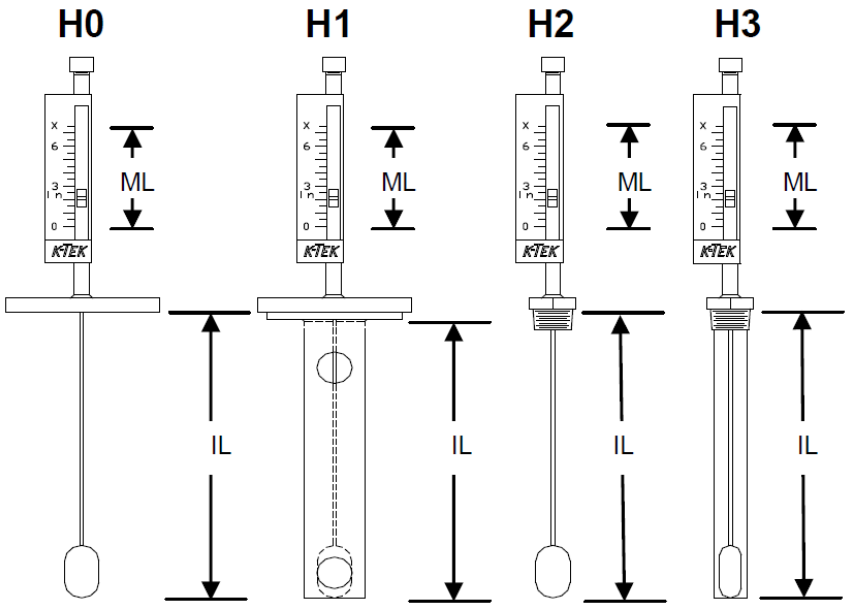


Figure 1 Process connection codes

NOTE:

* H0 and H2 options are designed to be mounted on tanks with pre-existing stilling wells or on tanks with insertion lengths less than or equal to 24” with non-turbulent conditions.
* The minimum level that can be indicated with a top mount unit will depend on the specific gravity of the fluid and the process connection size.
* A stilling well is recommended for insertion lengths (IL) greater than 24” or if turbulent conditions exist.
* KM26T options using a stilling well are available with maximum insertion lengths (IL) to 10 feet (120 inches). Consult factory for longer lengths
* Insertion length will always be greater than measuring length.

Process Connection Size and Rating

Table 3

Size and rating designations for ASME B16.5 flanges

Size	Rating	Raised face	Flat face
1 in.	150	R11	F11
	300	R13	F13
	600	R16	F16
	900	R19	F19
	1500	R115	F115
	2500	R125	F125
1½ in.	150	R151	F151
	300	R153	F153
	600	R156	F156
	900	R159	F159
	1500	R1515	F1515
	2500	R1525	F1525
2 in.	150	R21	F21
	300	R23	F23
	600	R26	F26
	900	R29	F29
	1500	R215	F215
	2500	R225	F225
2½ in.	150	R251	F251
	300	R253	F253
	600	R256	F256
	900	R259	F259
	1500	R2515	F2515
	2500	R2525	F2525
3 in.	150	R31	F31
	300	R33	F33
	600	R36	F36
	900	R39	F39
	1500	R315	F315
	2500	R325	F325
4 in.	150	R41	F41
	300	R43	F43
	600	R46	F46
	900	R49	F49
	1500	R415	F415
	2500	R425	F425
6 in.	150	R61	F61
	300	R63	F63
	600	R66	F66
	900	R69	F69
	1500	R615	F615
	2500	R625	F625

... Connection Size and Rating

Table 3 (continued)

Size and rating designations for EN 1092 flanges

Size	Rating	Raised face (type B1)	Flat face (type A)
DN25	PN16	RCC	FCC
	PN25	RCD	FCD
	PN40	RCE	FCE
	PN63	RCF	FCF
	PN100	RCG	FCG
	PN160	RCH	FCH
	PN250	RCJ	FCJ
	PN320	RCK	FCK
DN40	PN16	REC	FEC
	PN25	RED	FED
	PN40	REE	FEE
	PN63	REF	FEF
	PN100	REG	FEG
	PN160	REH	FEH
	PN250	REJ	FEJ
	PN320	REK	FEK
DN50	PN16	RFC	FFC
	PN25	RFD	FFD
	PN40	RFE	FFE
	PN63	RFF	FFF
	PN100	RFG	FFG
	PN160	RFH	FFH
	PN250	RFJ	FFJ
	PN320	RFK	FFK
DN65	PN16	RGC	FGC
	PN25	RGD	FGD
	PN40	RGE	FGE
	PN63	RGF	FGF
	PN100	RGG	FGG
	PN160	RGH	FGH
	PN250	RGJ	FGJ
	PN320	RGK	FGK

Note:

1 Z9 shall be specified for any sizes / ratings not listed in table 3.

Table 3 (continued)

Size and rating designations for EN 1092 flanges

Size	Rating	Raised face (type B2)	Flat face (type A)
DN65	PN16	RGC	FGC
	PN25	RGD	FGD
	PN40	RGE	FGE
	PN63	RGF	FGF
	PN100	RGG	FGG
	PN160	RGH	FGH
	PN250	RGJ	FGJ
	PN320	RGK	FGK
DN80	PN16	RHC	FHC
	PN25	RHD	FHD
	PN40	RHE	FHE
	PN63	RHF	FHF
	PN100	RHG	FHG
	PN160	RHH	FHH
	PN250	RHJ	FHJ
	PN320	RHK	FHK
DN100	PN16	RJC	FJC
	PN25	RJD	FJD
	PN40	RJE	FJE
	PN63	RJF	FJF
	PN100	RJG	FJG
	PN160	RJH	FJH
	PN250	RJJ	FJJ
	PN320	RJK	FJK
DN150	PN16	RMC	FMC
	PN25	RMD	FMD
	PN40	RME	FME
	PN63	RMF	FMF
	PN100	RMG	FMG
	PN160	RMH	FMH
	PN250	RMJ	FMJ
	PN320	RMK	FMK

Note:

1 Z9 shall be specified for any sizes / ratings not listed in table 3.

Connection sizes and ratings

Table 3 (continued)

Size and rating designations

Size	Rating	Plugs
1 in.	3000#	P103
	6000#	P106
1½ in.	3000#	P153
	6000#	P156
2 in.	3000#	P203
	6000#	P206
3 in.	3000#	P303
	6000#	P306
4 in.	3000#	P403
	6000#	P406
5 in.	3000#	P503
	6000#	P506
6 in.	3000#	P603
	6000#	P606

Transmitter and switch accessories

Magnetostrictive Level Transmitter

LMT200: refer to DS_LMT200–EN data sheet for ordering information

Magnetic level gauge switches

LMS100: refer to DS/LMS100–EN data sheet for ordering information

LMS200: refer to DS/LMS200–EN data sheet for ordering information

MS41: refer to DS/MS41–EN data sheet for ordering information

PS45: refer to DS/PS45–EN 2014 data sheet for ordering information

All data sheets are available on the ABB website at: https://new.abb.com/products/measurement-products/level

Example application – KM26T – top mount

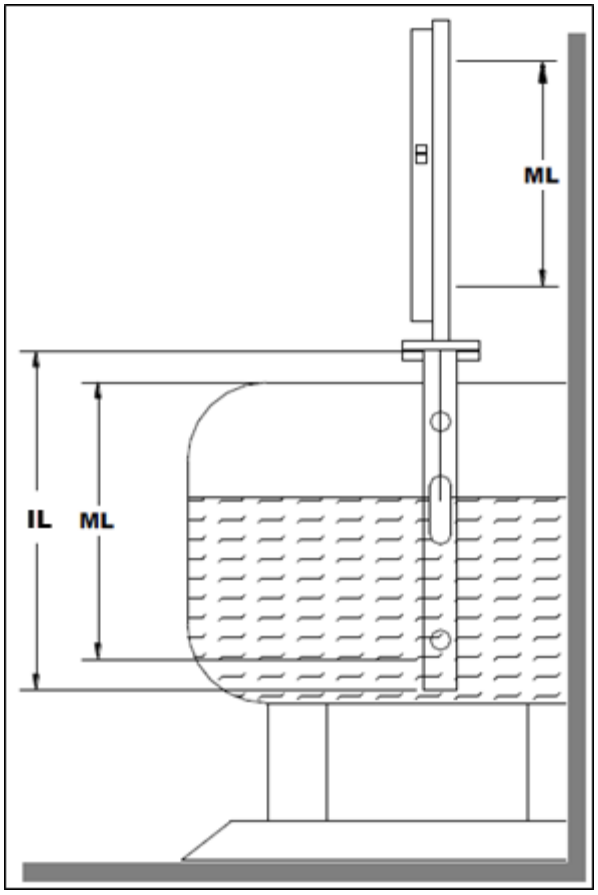


Figure 2 Example applications

Tank with Top Opening and with Stilling Well. Sample model #: KM26T.SS6.SS6.H1.R41.S3P.B.X

Top: Indicator with Blind Flange mounted on tank with existing stilling well

Note: The required IL and ML dimensions shall be specified by the customer.

Quotation request – KM26T – top mount

Factory contact: _____

Seller information
Name: _____
Phone: _____
Email: _____
Company or LBU: _____
Main phone: _____
Fax: _____

End user information
Name:_____
Phone: _____
Email: _____
Company or LBU: _____
Main phone: _____
Fax: _____

Note: This information will be required before accepting an order.
*All fields required

Tag ID#:
_____

Process conditions
Application for (select one): ❑Total level ❑Interface level
Upper fluid operating sp. gravity: _____ Minimum specific gravity: _____
Lower fluid second sp. gravity: _____ Fluid(s): _____
If water, steam service? ❑ Yes ❑ No
Operating temp: _____ Max. temp: Min. temp: _____
Operating pressure: _____ Max. pressure: _____
Minimum ambient temperature:_____

Chamber and float details
Chamber material: _____
Stilling Well material (H1 & H3 option): _____
Float material: _____
Connection material: _____
Insertion length: _____
"A" Dimension: ABB engineering to determine
"C" Dimension: _____

Process connection
Type: _____
Size: _____
Rating: _____

Measuring length: _____
"B" Dimension: _____
"D" Dimension: _____

Nozzle Y / N If yes, Height: _____ Diameter: _____ Schedule: _____

Indicator details
Select: ___Shuttle or
___Bar graph (choose color combination) ❑yellow/black ❑red/white
Scale (select one): ❑ ft. / in. ❑ meter / cm ❑ custom: _____
❑ running in. (½ in. div.) ❑ r**un**ning in. (1/8 in.)

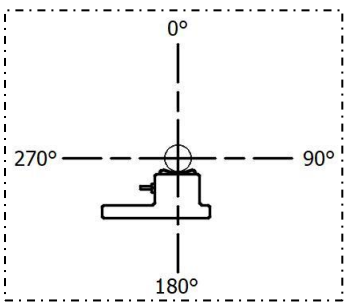
Special requirements:
_____
_____

Accessories Required (choose all that apply)
__Chamber insulation
__Electric heat tracing
__Transmitter – LMT200 (select: Hart or FF)
__Specialty process connection (specify type: _____)
__Switches (specify type: _____)
__Steam tracing

Approval or Documentation required:
__CRN __NACE __EX
__ASME __ATEX/IECEx CONSTRUCTIONAL SAFETY __Other

Orientation:
Indicator: Positioned at 180°

Transmitter:	__0°	__90°	__270°
LMS100:	__0°	__75°	__285°
LMS200:	__0°	__70°	__290°
MS41:	__0°	__65°	__295°



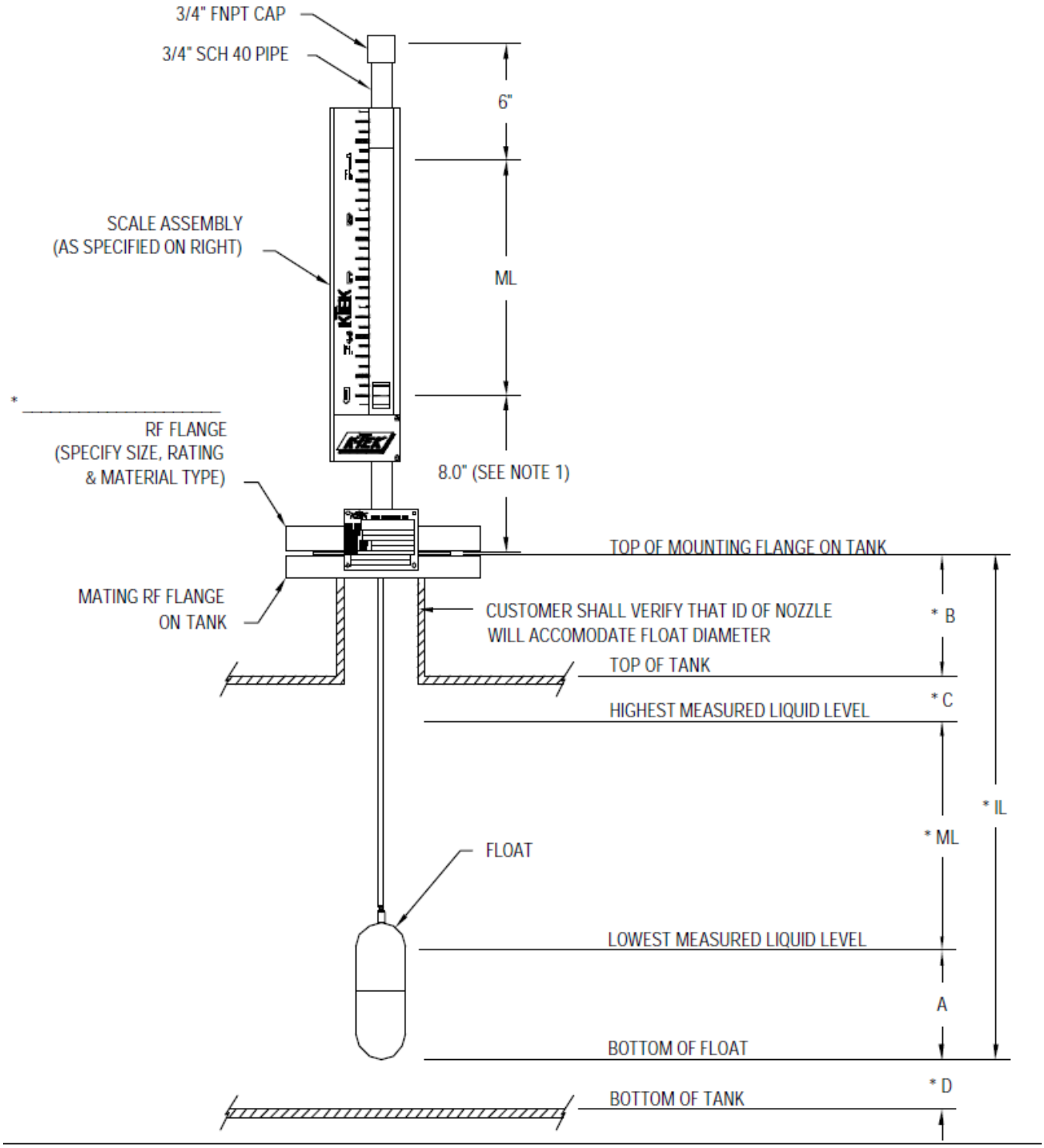


Figure 3 - H0 Process Connection Code

1. 8" DIMENSION MAY CHANGE BASED ON FLANGE RATING AND ACCESSORIES.
2. * INDICATES INFORMATION REQUIRED BY CUSTOMER. ABB/K-TEK WILL CALCULATE VALUE OF "A" AFTER OTHER DIMENSIONS ARE PROVIDED TO ABB/K-TEK. ACTUAL "ML" .VALUE MAY BE AFFECTED BY ACTUAL "A" DIMENSION.

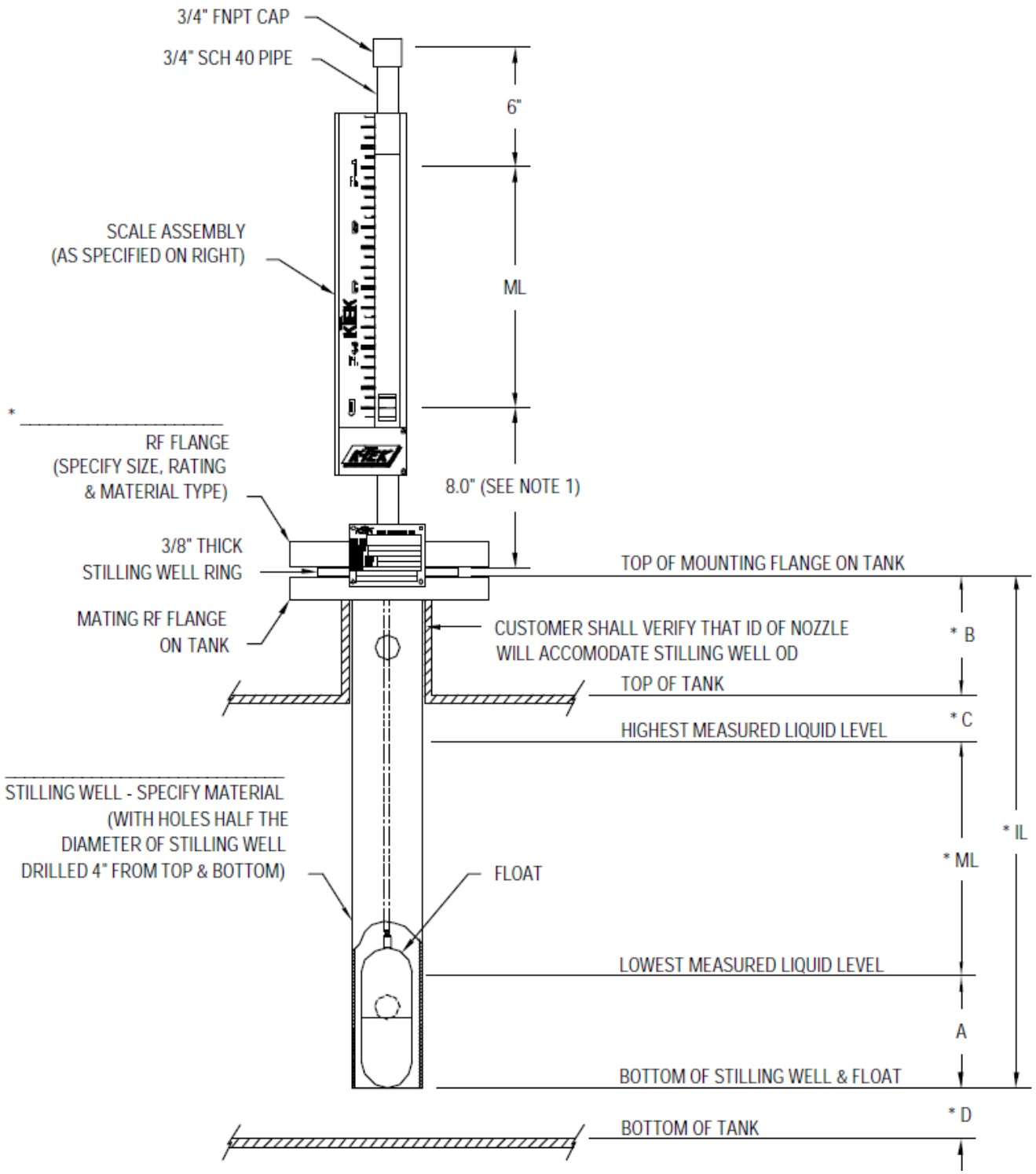


Figure 4 - H1 Process Connection Code

1. CHANGE 8" DIMENSION TO 12" IF A BOTTOM CONNECTED TRANSMITTER IS USED.
2. * INDICATES INFORMATION REQUIRED BY CUSTOMER. ABB/ K-TEK WILL CALCULATE VALUE OF "A" AFTER OTHER DIMENSIONS ARE PROVIDED TO ABB/K-TEK. ACTUAL "ML" VALUE MAY BE AFFECTED BY ACTUAL "A" DIMENSION.

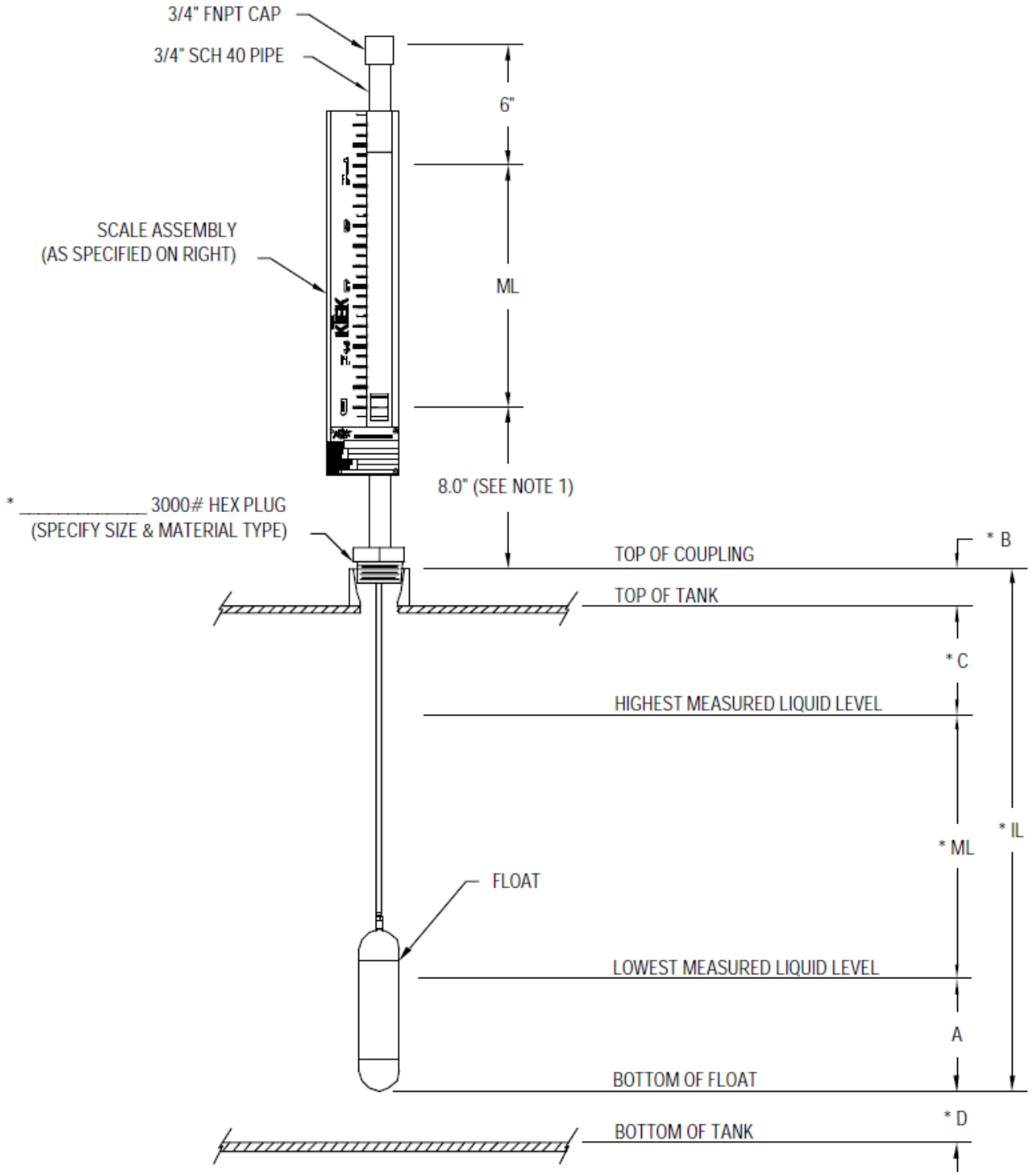


Figure 5 - H2 Process Connection Code

1. CHANGE 8" DIMENSION TO 12" IF A BOTTOM CONNECTED TRANSMITTER IS USED.
2. * INDICATES INFORMATION REQUIRED BY CUSTOMER. ABB/K-TEK WILL CALCULATE VALUE OF "A" AFTER OTHER DIMENSIONS ARE PROVIDED TO ABB/K-TEK. ACTUAL "ML" VALUE MAY BE AFFECTED BY ACTUAL "A" DIMENSION.

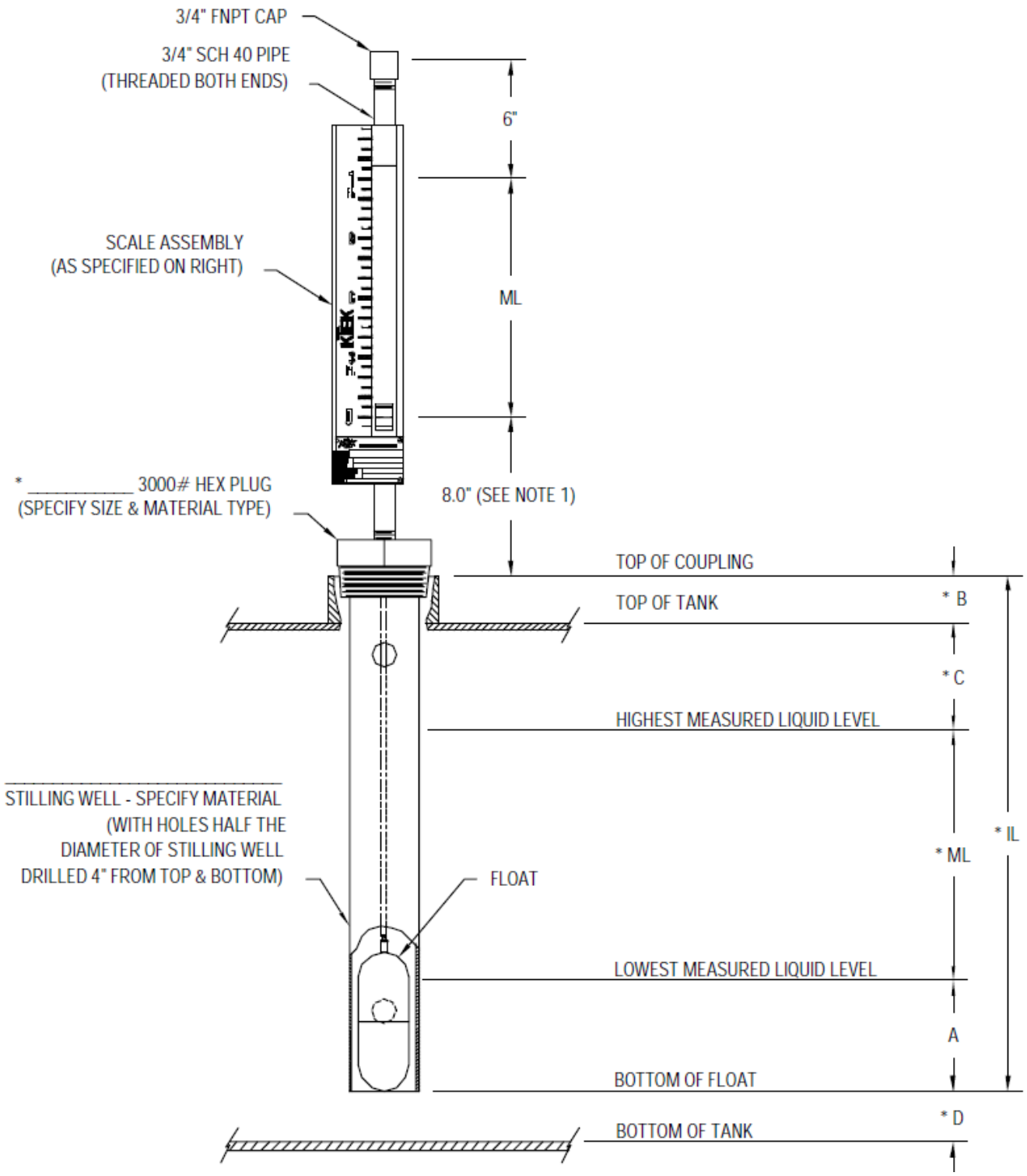


Figure 6 - H3 Process Connection Code

1. CHANGE 8" DIMENSION TO 12" IF A BOTTOM CONNECTED TRANSMITTER IS USED.
2. * INDICATES INFORMATION REQUIRED BY CUSTOMER. ABB/K-TEK WILL CALCULATE VALUE OF "A" AFTER OTHER DIMENSIONS ARE PROVIDED TO ABB/K-TEK. ACTUAL "ML" VALUE MAY BE AFFECTED BY ACTUAL "A" DIMENSION.

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