

# ROSEMOUNT 2140 VIBRATING FORK LIQUID LEVEL DETECTOR (THREADED)

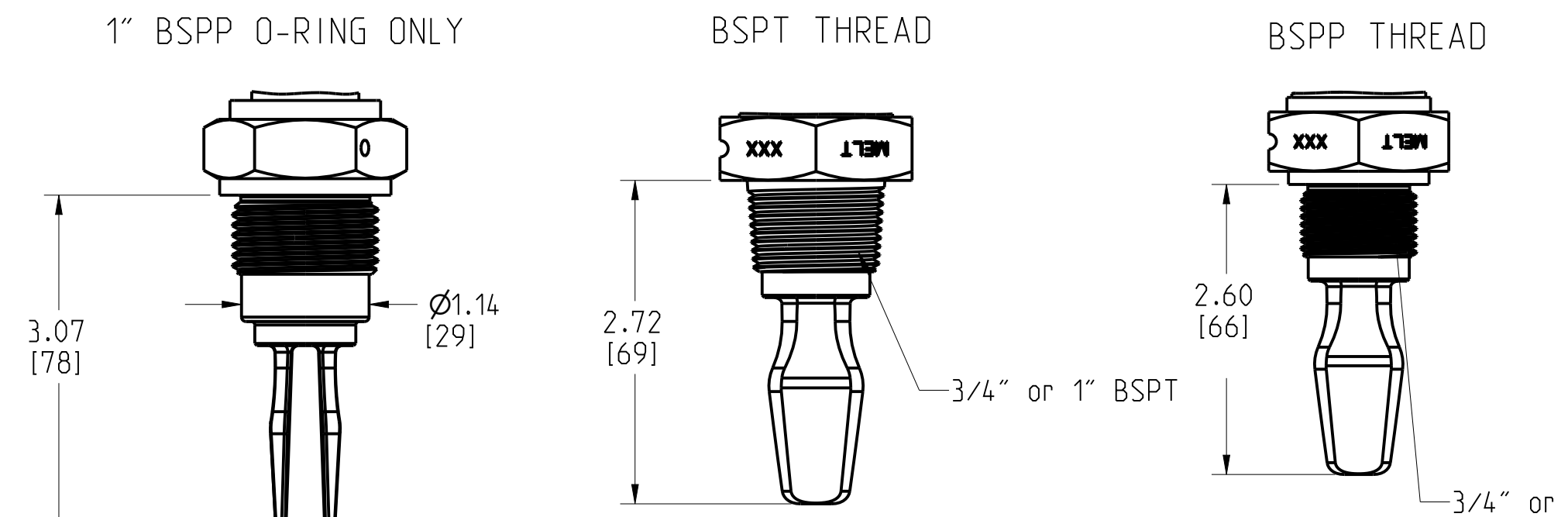
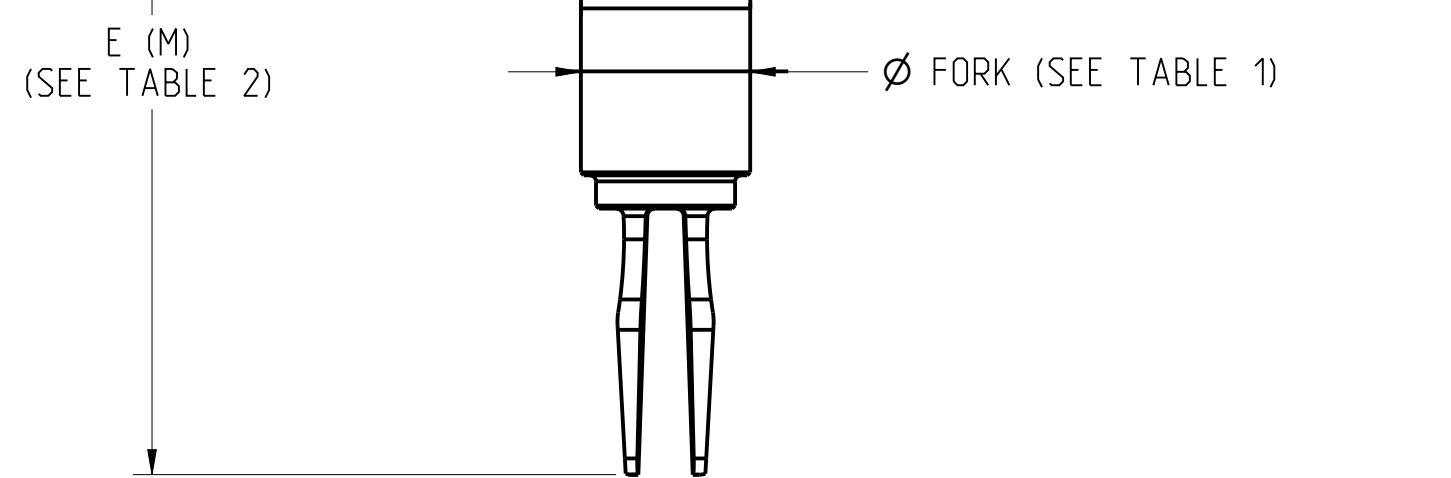
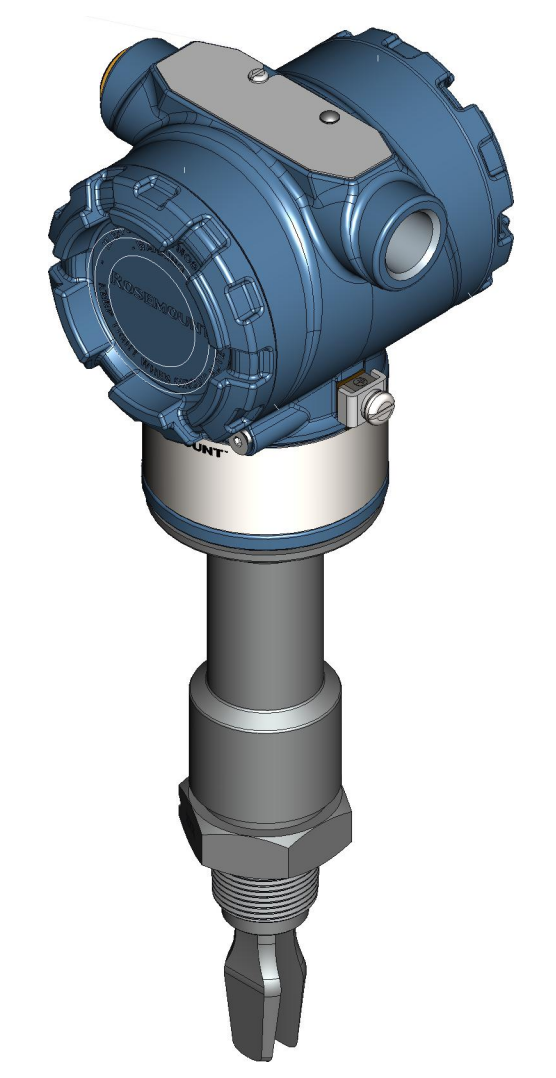
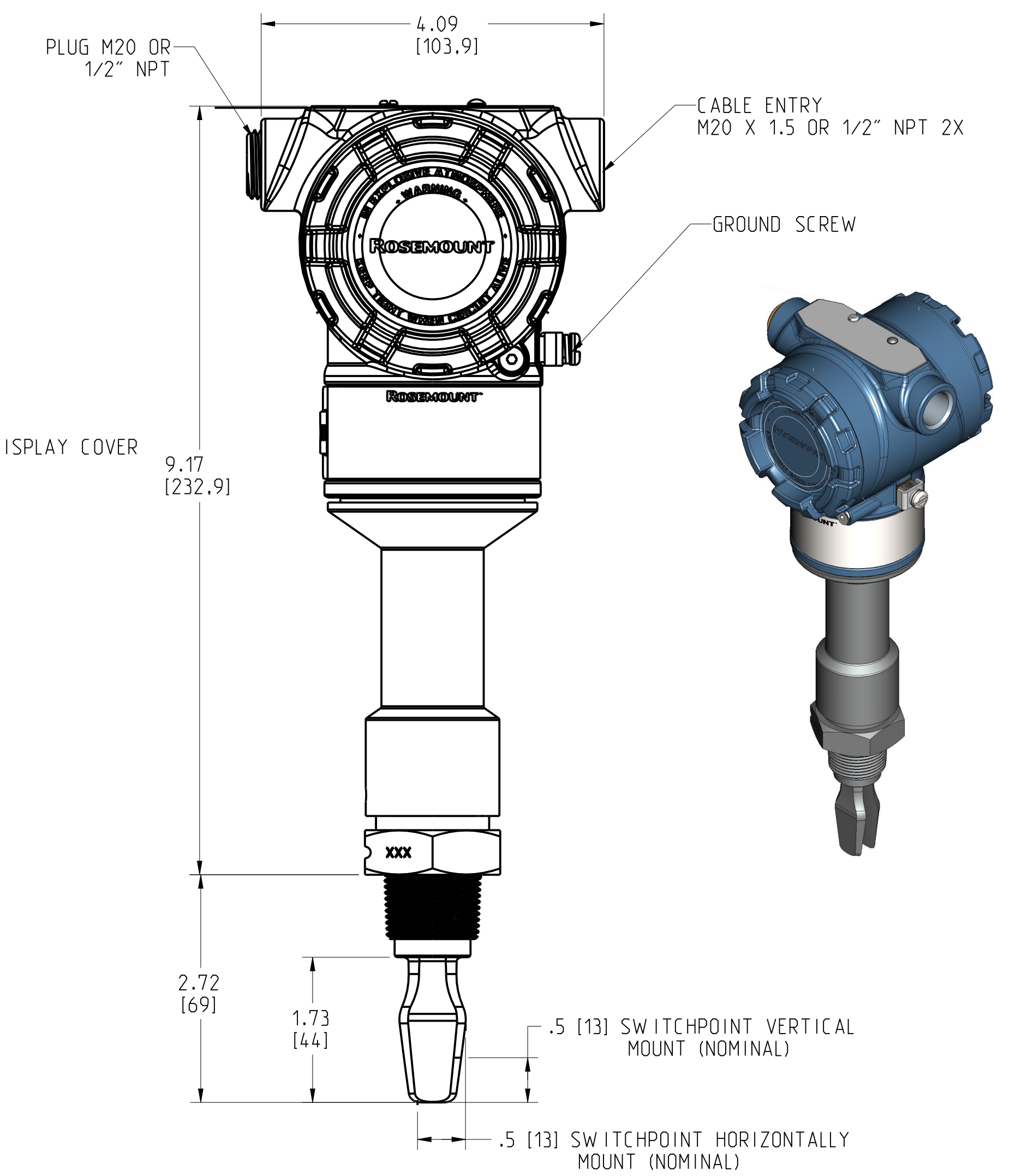
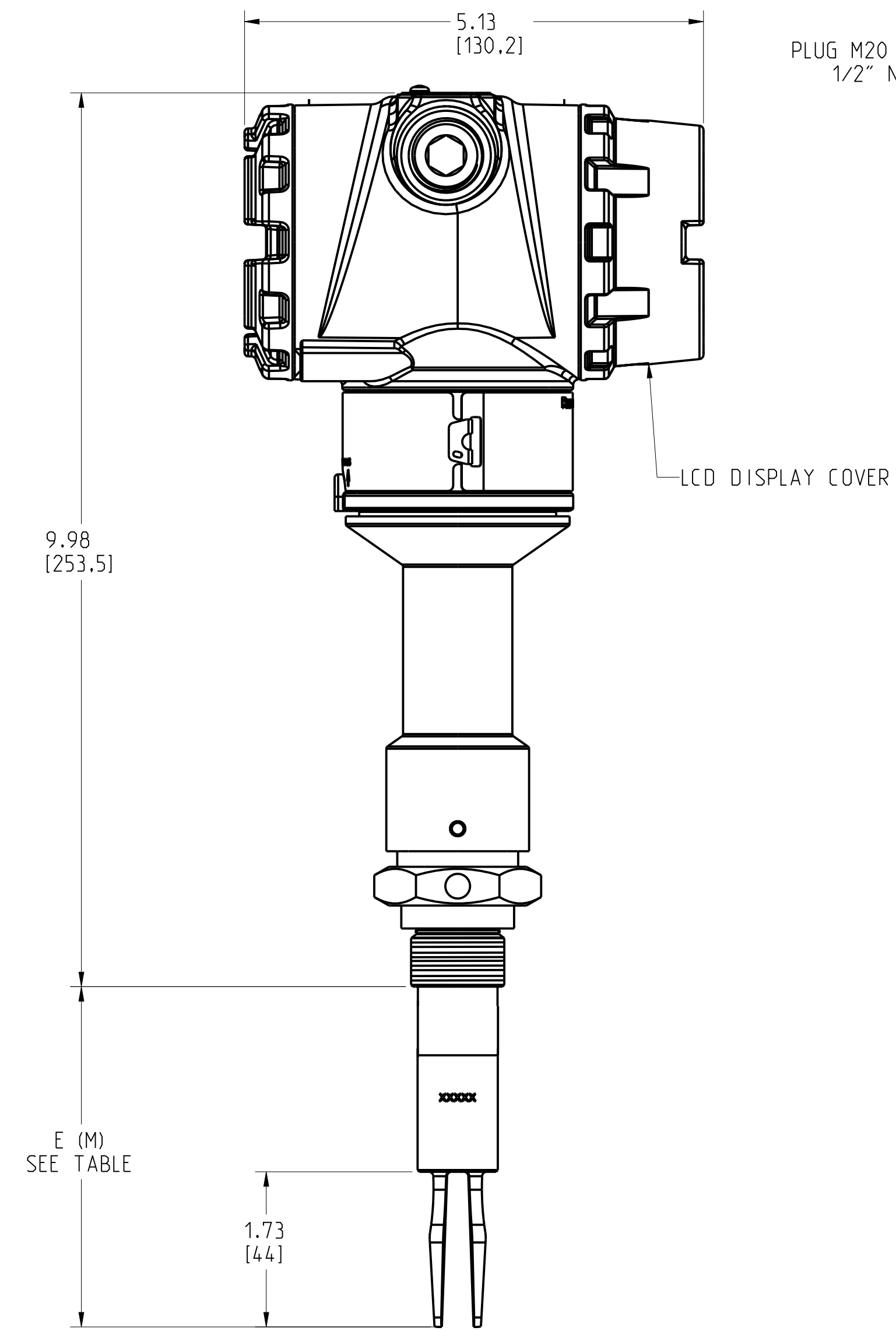
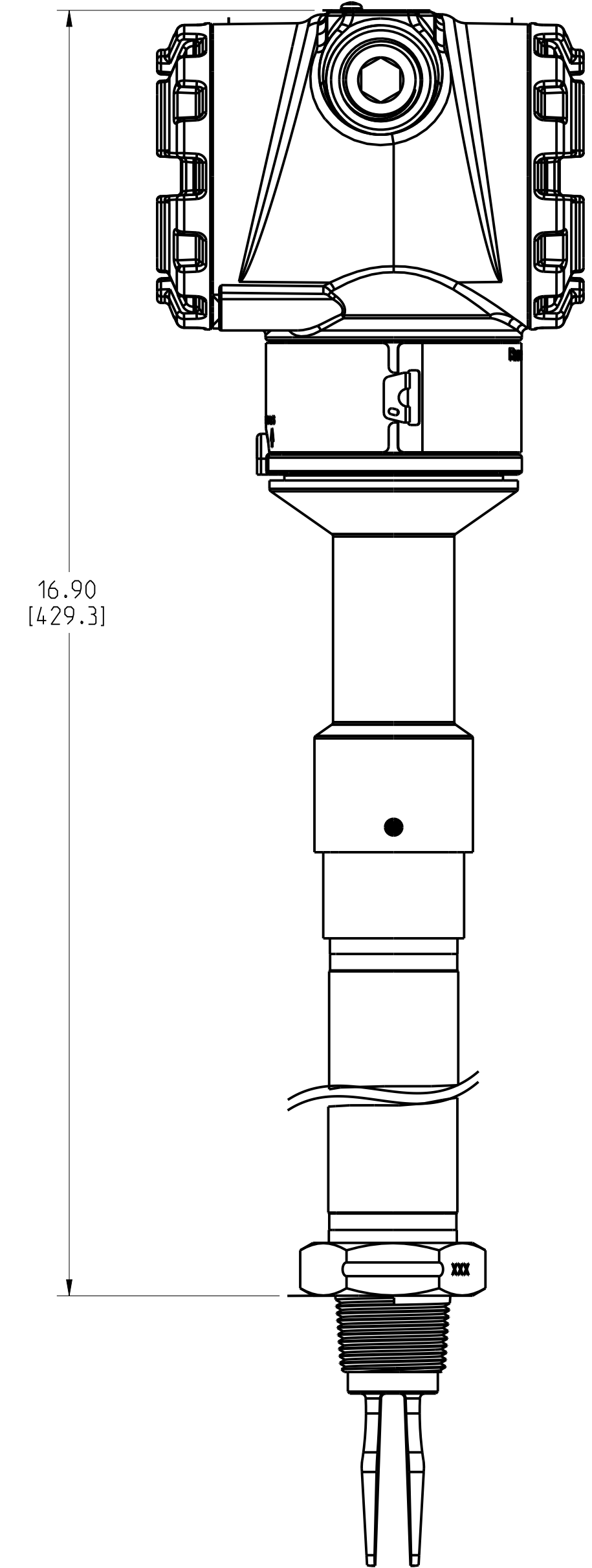
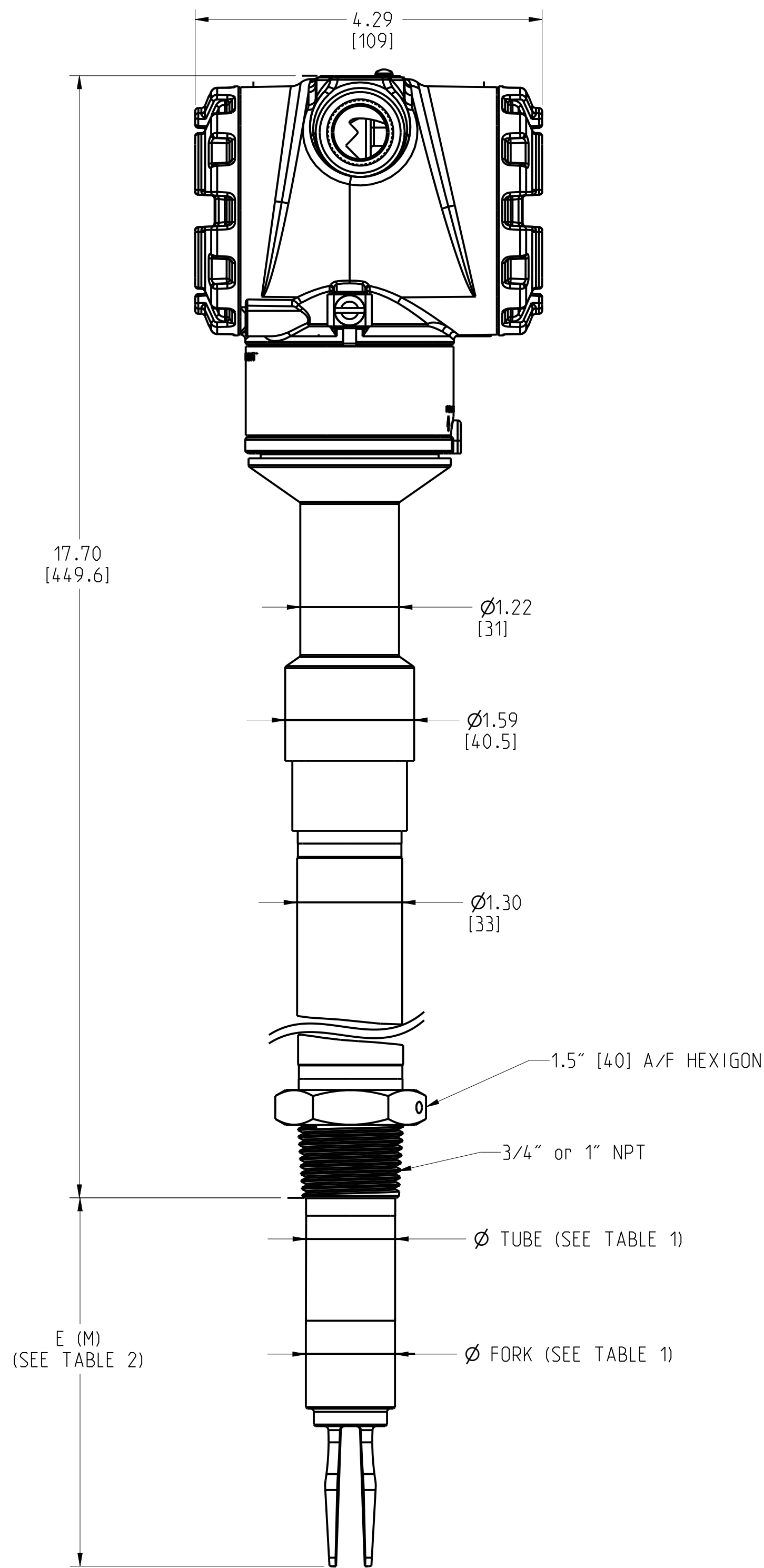
REVISION TABLE			
REVISION	ECO NO.	APP'D	DATE
AB	RTC10B0315	O. ISAKSSON	2/10/23
DESCRIPTION			
UPDATE TITLEBLOCK, AND TABLES			

**HIGH TEMP. EXTENDED LENGTH (NPT)  
(ALUMINUM OR SST HOUSING)**

**HIGH TEMP. WITH STANDARD LENGTH (NPT)**

**MID-RANGE TEMP. WITH EXTENDED LENGTH (BSPP)  
(ALUMINUM OR SST HOUSING)**

**MID-RANGE TEMP. WITH STANDARD LENGTH (NPT)**



THREAD	STANDARD LENGTH	MIN LENGTH E	FORK LENGTH E
3/4"	1.73 [44]	3.75 [94]	157.5 [4000]
1"	1.73 [44]	3.75 [94]	157.5 [4000]
O-RING SEAL (1" BSPP)	1.73 [44]	—	—

EXTENDED FORK LENGTH AVAILABLE FOR NPT/BSPT/BSPP

THREAD SIZE	TUBE MATERIAL	EXT TUBE MAX O/D	FORK TUBE MAX O/D	NOTE
3/4"	316/316L	.9 [22.8]	.9 [22.75]	1.
1" AND 2"	316/316L	1.13 [28.8]	1.11 [28.1]	1.
3/4"	ALLOY C/C-276	.85 [21.6]	.9 [22.75]	1.
1"	ALLOY C/C-276	1.06 [26.9]	1.06 [26.8]	1.

<sup>1</sup>Weld between extension tube and fork tube locally add up to 0.4 [1] to largest tube dia.

EMERSON  
ROSEMOUNT 2140 LEVEL DETECTOR  
TYPE I DRAWING

DR. J. ARMSTRONG 6/15/22 DRAWING NO. 02140-7001  
APP'D O. ISAKSSON 6/15/22  
CAD MAINTAINED (PRO/E) SHEET 1 OF 3

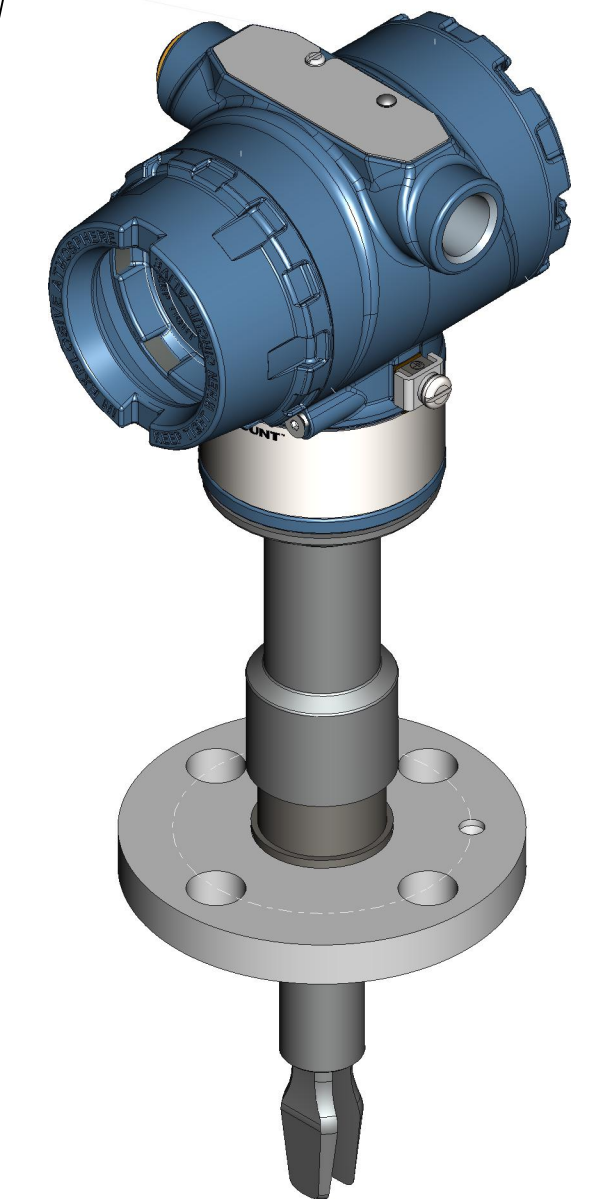
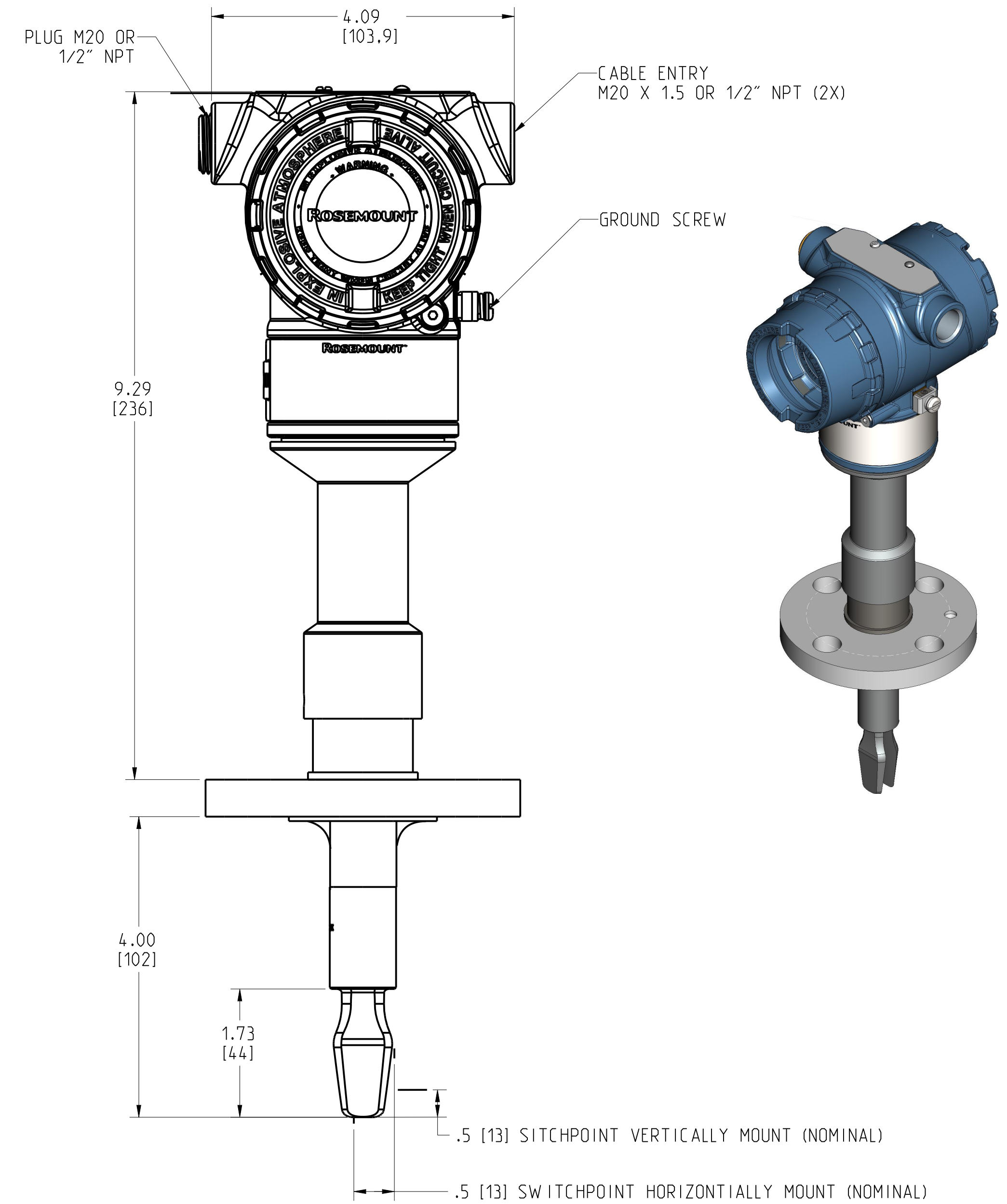
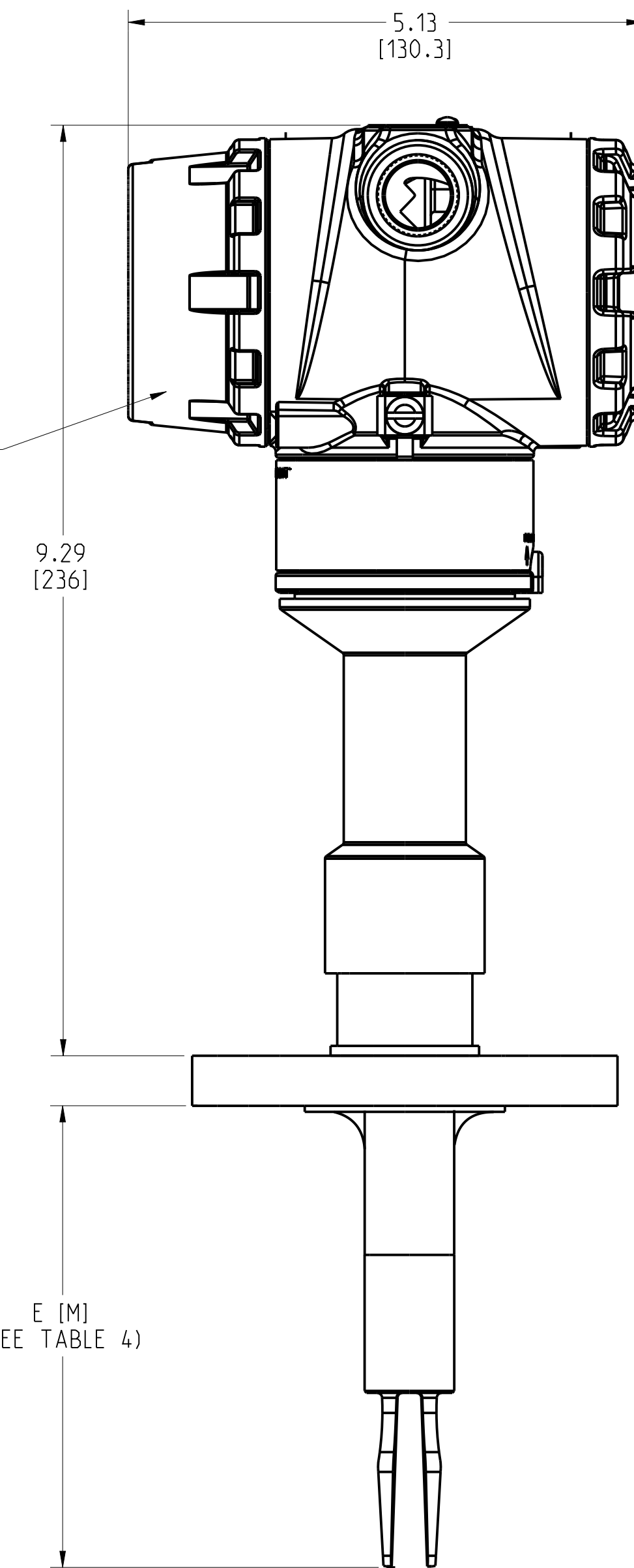
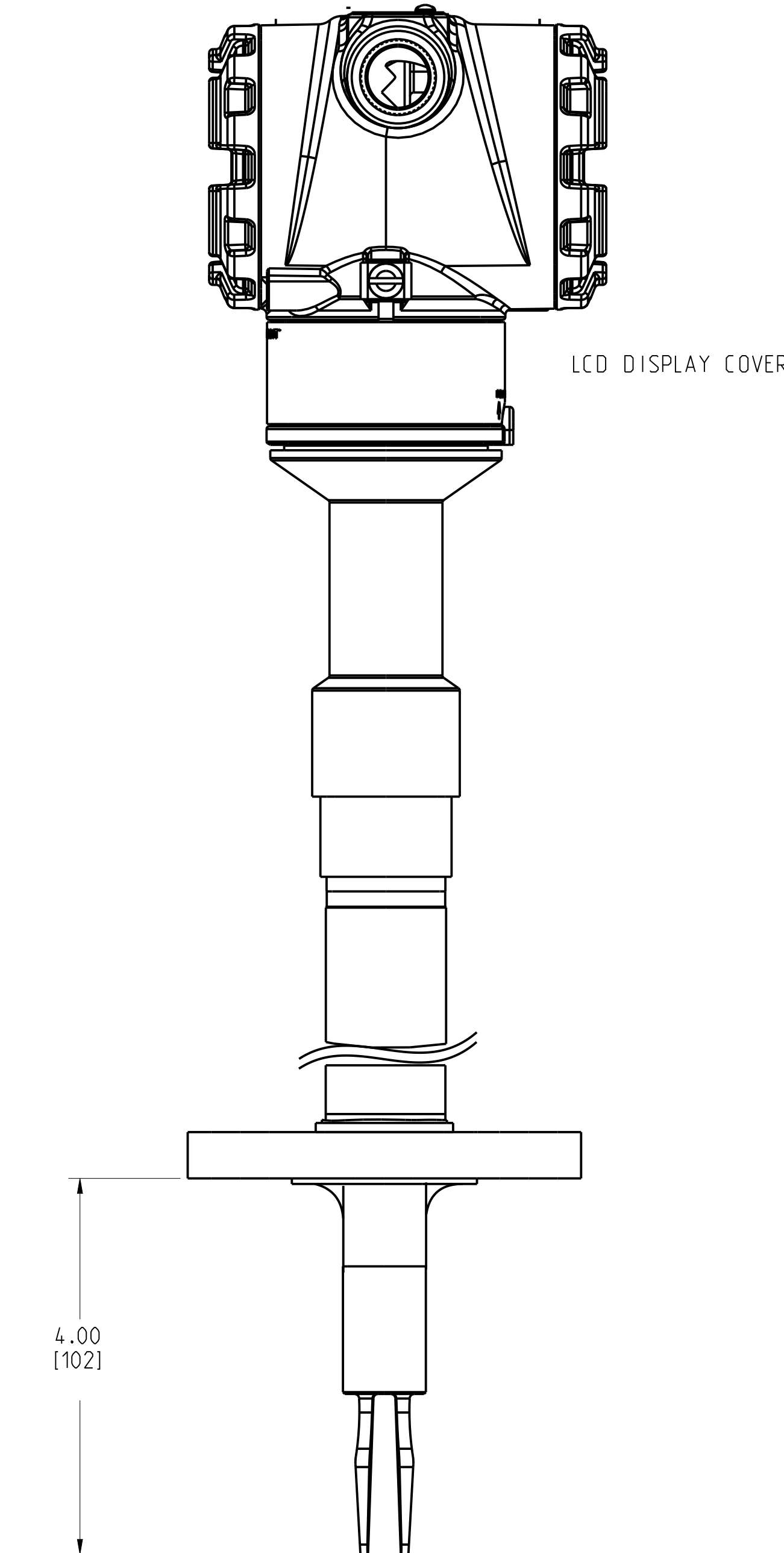
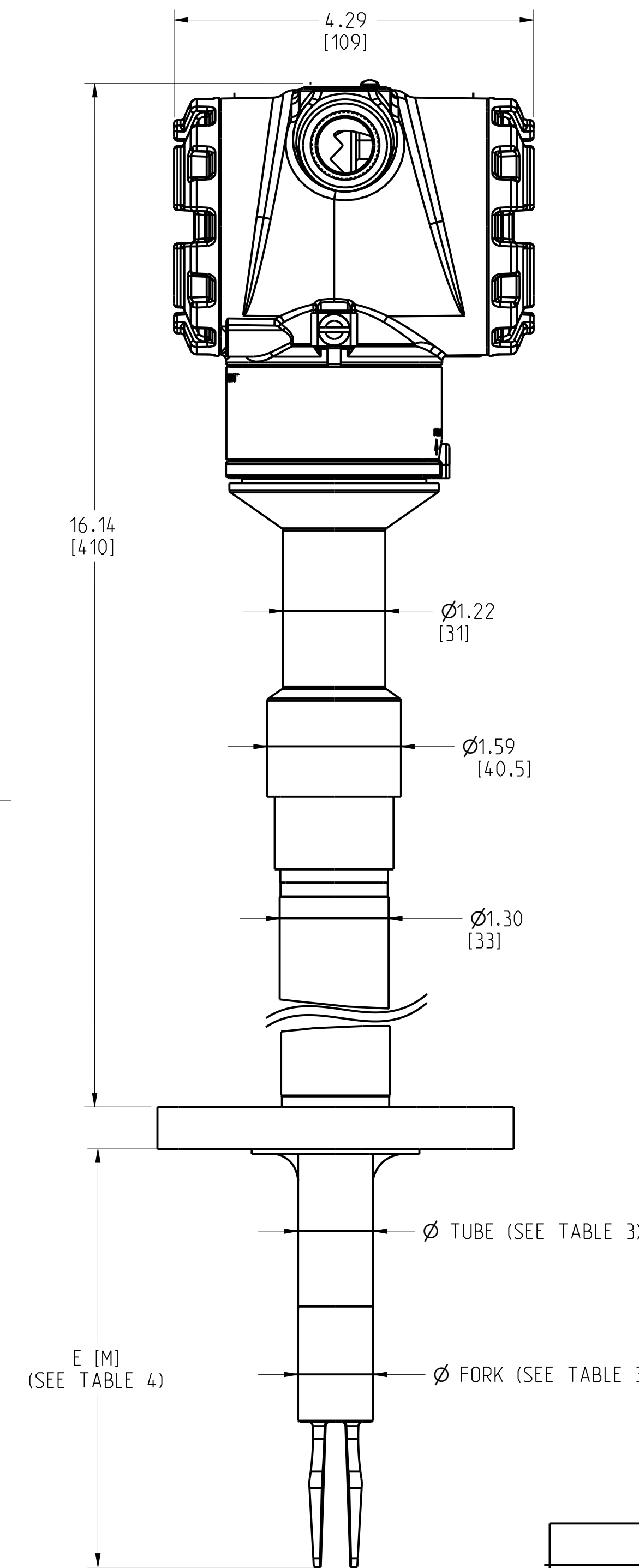
# ROSEMOUNT 2140 VIBRATING FORK LIQUID DETECTOR SWITCH (FLANGED)

HIGH TEMP. EXTENDED LENGTH FORK (FLANGE)  
(ALUMINUM OR SST HOUSING)

HIGH TEMP. WITH STANDARD LENGTH FORK (FLANGE)

MID-RANGE TEMP. WITH EXTENDED LENGTH (FLANGE)  
(ALUMINUM OR SST HOUSING)

MID-RANGE TEMP. WITH STANDARD LENGTH (FLANGE)



FLANGE SIZE	TUBE MATERIAL	EXT. TUBE MAX O/D	EXT. TUBE O/D ECTFE COATED	FORK TUBE MAX D/O	FORK TUBE MAX D/O ECTFE COATED	
ASME 1", EN DN25 and JIS 25A	316/316L	.9 [22.8]	.95 [24]	.9 [22.75]	.94 [23.95]	See 1,2 and 3
ASME 1 1/2", EN DN40, JIS 40A or LARGER	316/316L	1.13 [28.8]	1.18 [30]	1.11 [28.1]	1.15 [29.3]	See 1, 3
ASME 1", EN DN25 and JIS 25A	ALLOY C/C-276	.85 [21.6]	.9 [22.8]	.9 [22.75]	.94 [23.95]	See 1 and 2
ASME 1 1/2" EN DN40, JIS 40A or LARGER	ALLOY C/C-276	1.06 [26.9]	1.11 [28.1]	1.06 [26.8]	1.1 [28]	See 1.

- Weld between extension tube and fork tube locally add up to 0.4 [1] to largest dia.
- If flange gasket with inner ring used, contact product support.
- The ECTFE coating adds 1.2mm to fork-tube and tube Ø. 316/316L only.

MATERIAL	STANDARD LENGTH	MIN LENGTH E	MAX LENGTH E
SS 316/316L	4.00 [102]	3.50 [89]	157.5 [4000]
ALLOY C (UNS N10002) ALLOY 276 (UNS N10276)	4.00 [102]	3.50 [89]	157.5 [4000]
ECTFE CO-POLYMER COATED	4.00 [102]	3.50 [89]	58.1 [1500]

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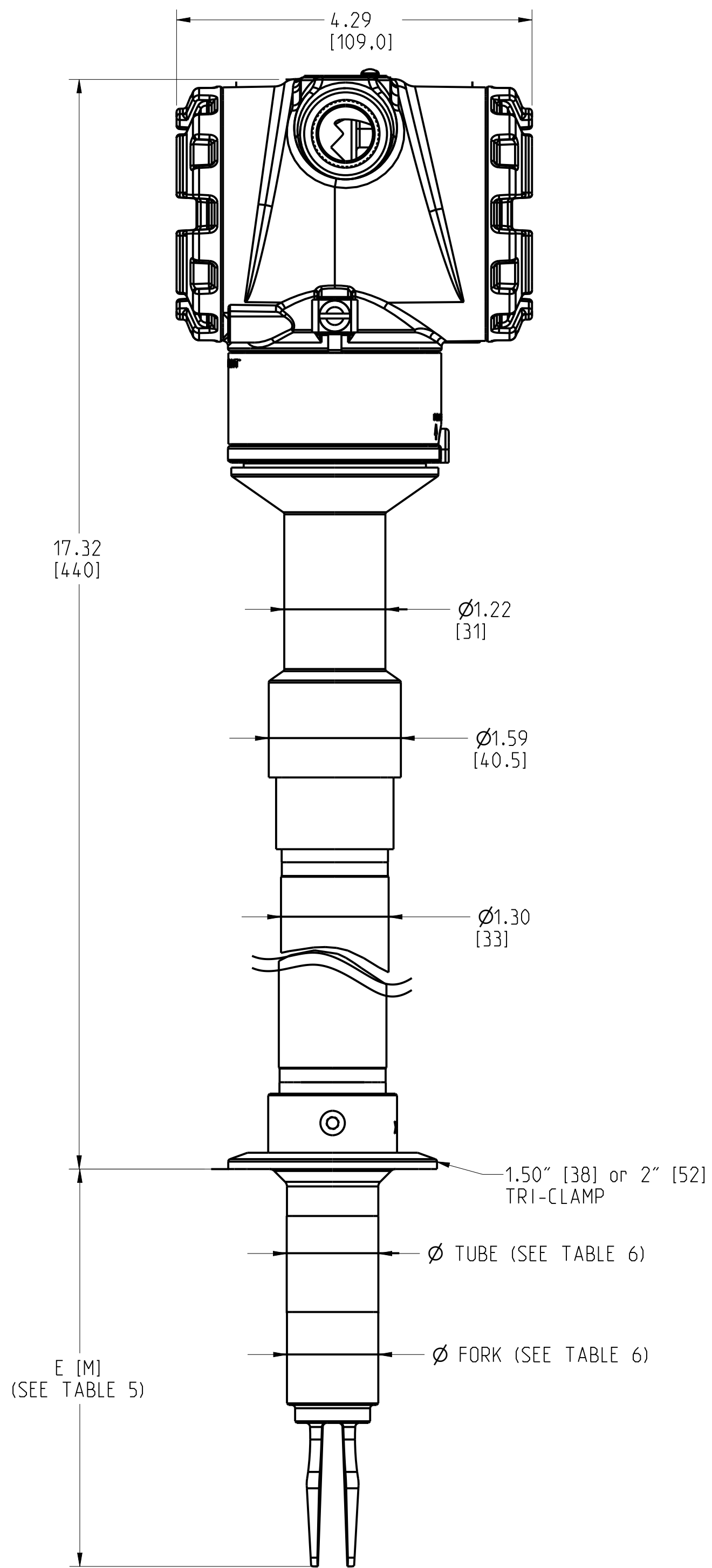
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ROSEMOUNT 2140 LEVEL DETECTOR  
TYPE I DRAWING

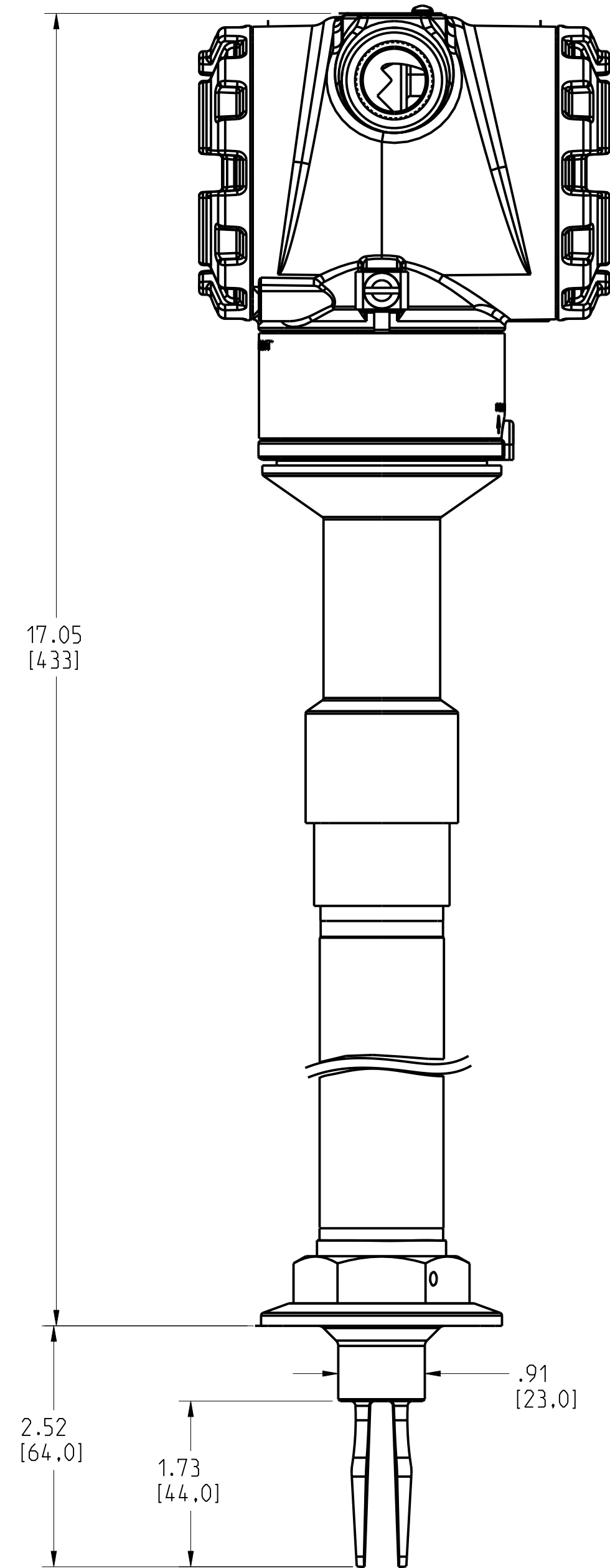
DR. J. ARMSTRONG 6/15/22 DRAWING NO. 02140-7001  
APP'D O. ISAKSSON 6/15/22  
CAD MAINTAINED (PRO/E) SHEET 2 OF 3

# ROSEMOUNT 2140 VIBRATING FORK LIQUID LEVEL DETECTOR (TRI-CLAMP)

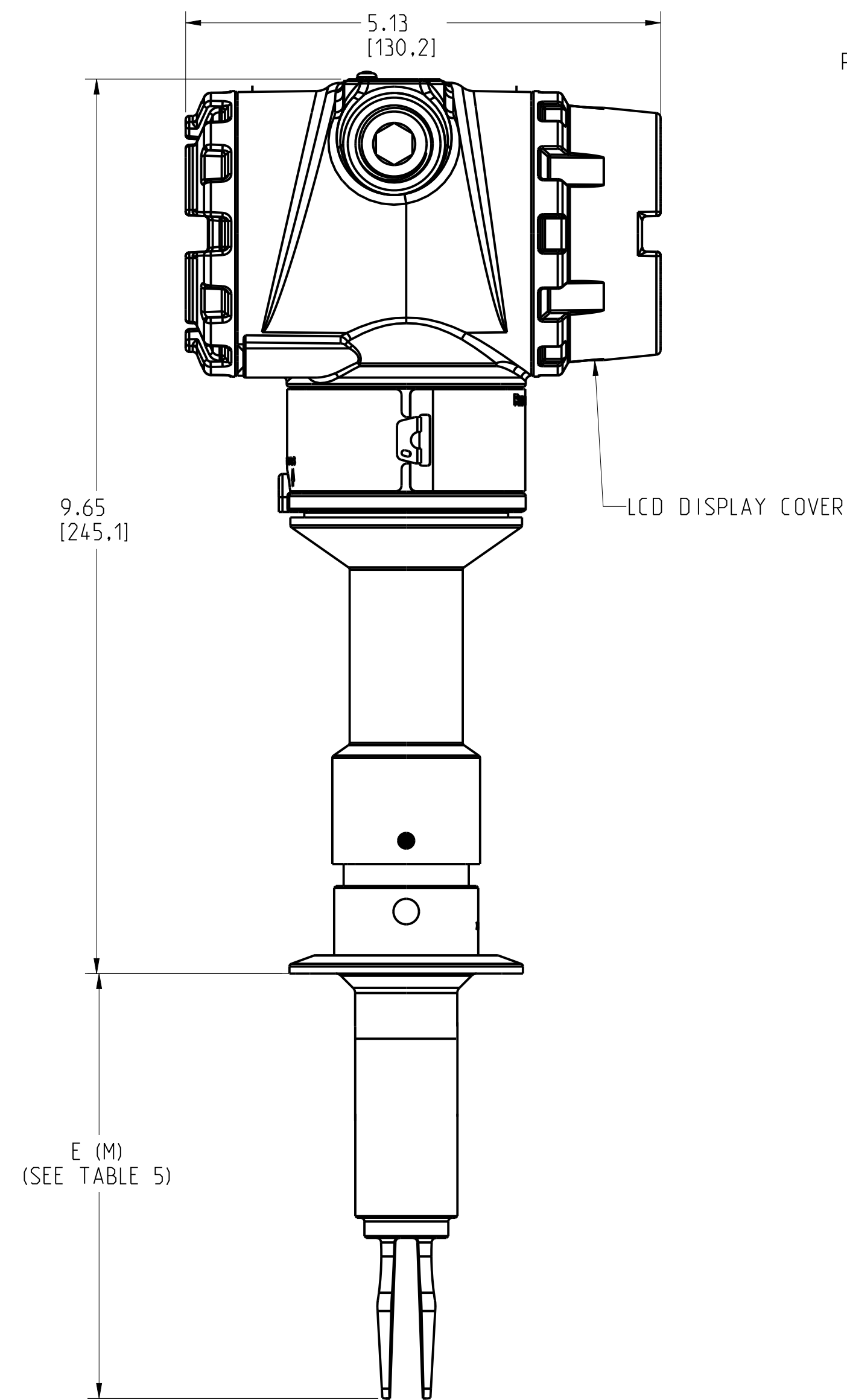
HIGH TEMP. EXTENDED LENGTH (TRI-CLAMP)  
(ALUMINUM OR SST HOUSING)



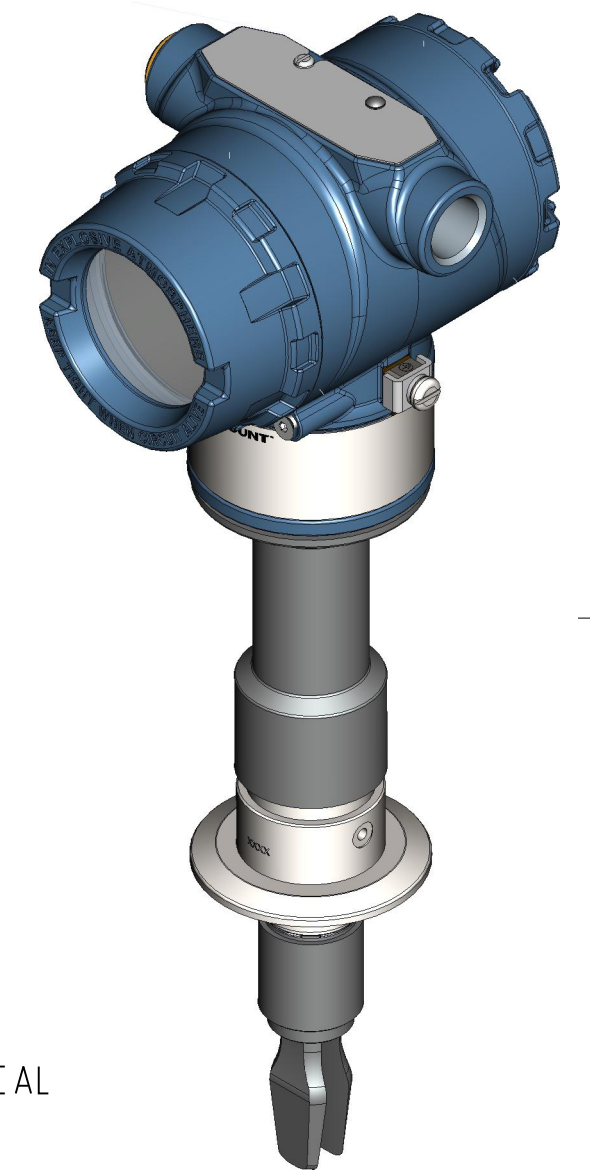
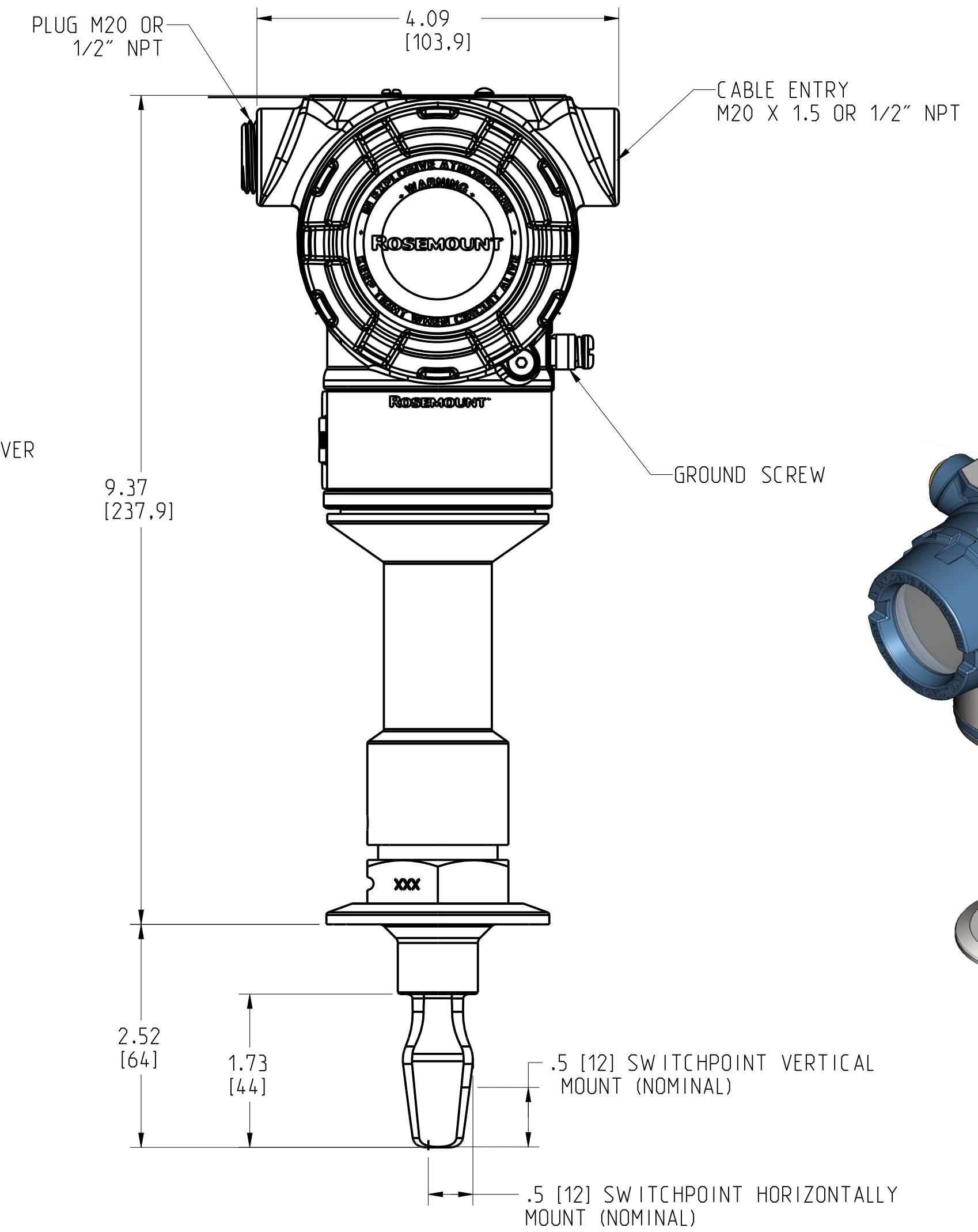
HIGH TEMP. WITH STANDARD LENGTH (TRI-CLAMP)



MID-RANGE TEMP. WITH EXTENDED LENGTH (TRI-CLAMP)  
(ALUMINUM OR SST HOUSING)



MID-RANGE TEMP. WITH STANDARD LENGTH (TRI-CLAMP)



CONNECTION	STANDARD LENGTH	MIN LENGTH E (M)	MAX LENGTH E	POLISHED MAX LENGTH
TRI-CLAMP	1.70 [44]	4.10 [105]	157.5 [4000]	39.3 [1000]

PROCESS CONNECTION TYPE	TUBE MATERIAL	EXT. TUBE MAX O/D	FORK TUBE MAX D/O	REMARK
Tri-Clamp, Surface Finish Codes 1 and 2	316/316L	1.13 [28.8]	1.11 [28.1]	Surface Finish Codes 1, see 1

1. Weld between extension tube and fork tube locally add up to 0.4 [1] to largest dia.

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ROSEMOUNT 2140 LEVEL DETECTOR  
TYPE I DRAWING

DR. J. ARMSTRONG 6/15/22 DRAWING NO. 02140-7001  
APP'D O. ISAKSSON 6/15/22

CAD MAINTAINED (PRO/E) SHEET 3 OF 3