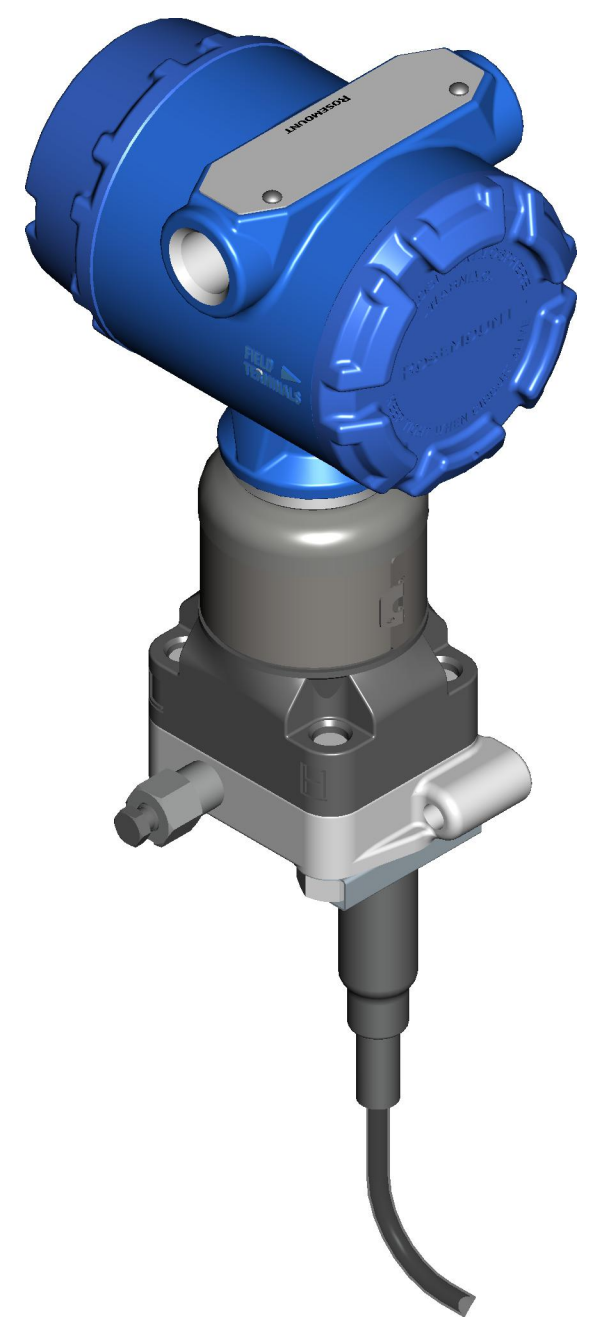
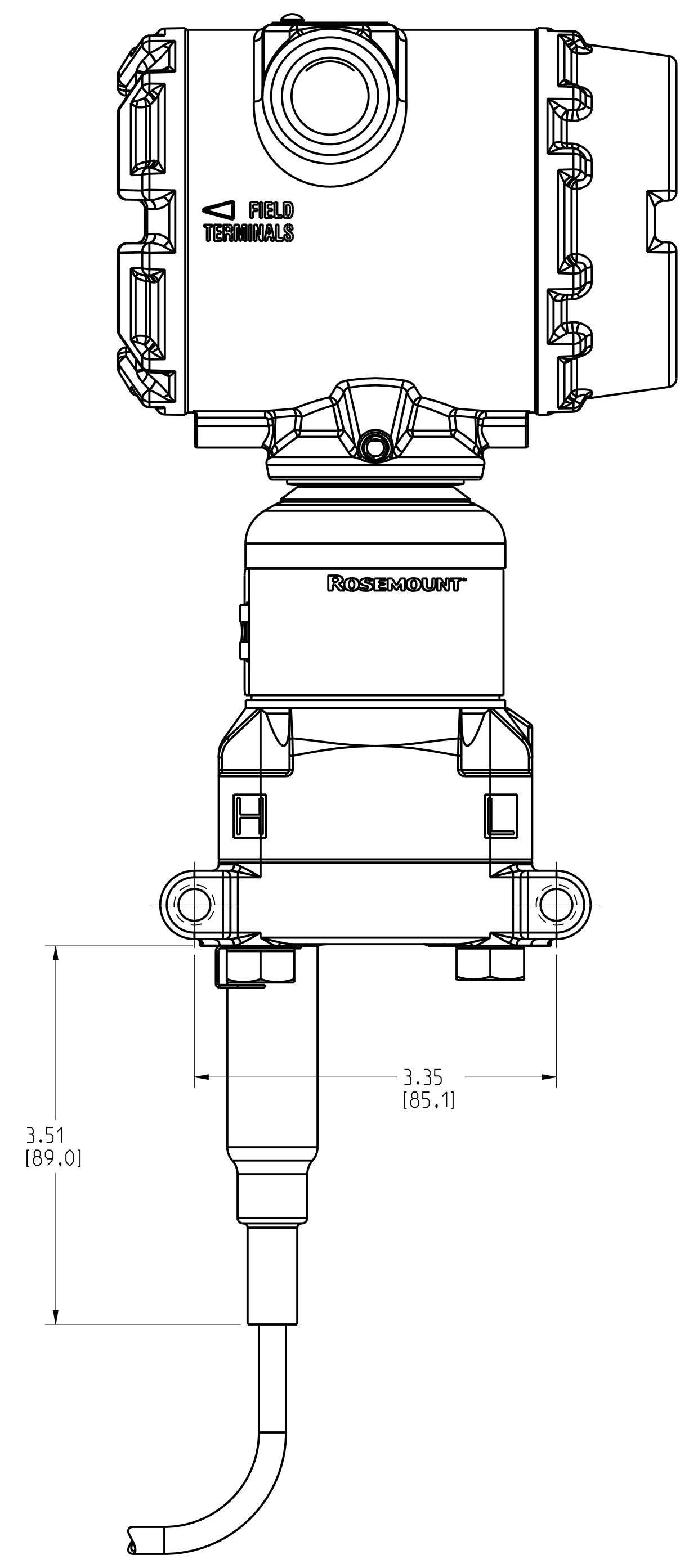


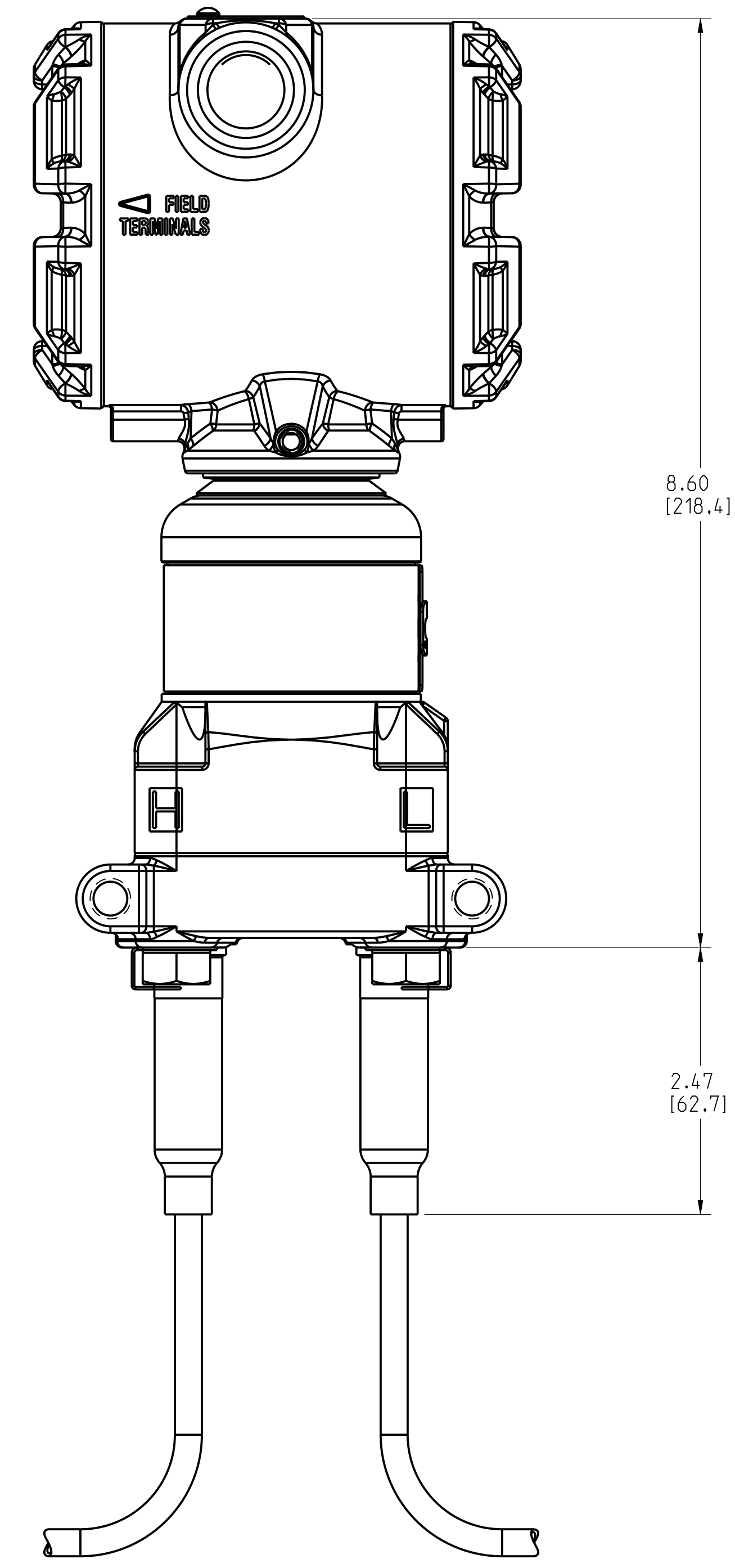
# ROSEMOUNT 1299 DIAPHRAGM SEALS ASSEMBLED TO COPLANAR TRANSMITTER WITH CAPILLARY AND DIRECT MOUNT SEALS

REVISION TABLE			
REVISION	ECO NO.	APP'D	DATE
AB	RTC1079151	C. MARSHALL	5/16/22
DESCRIPTION			
INITIAL RELEASE			

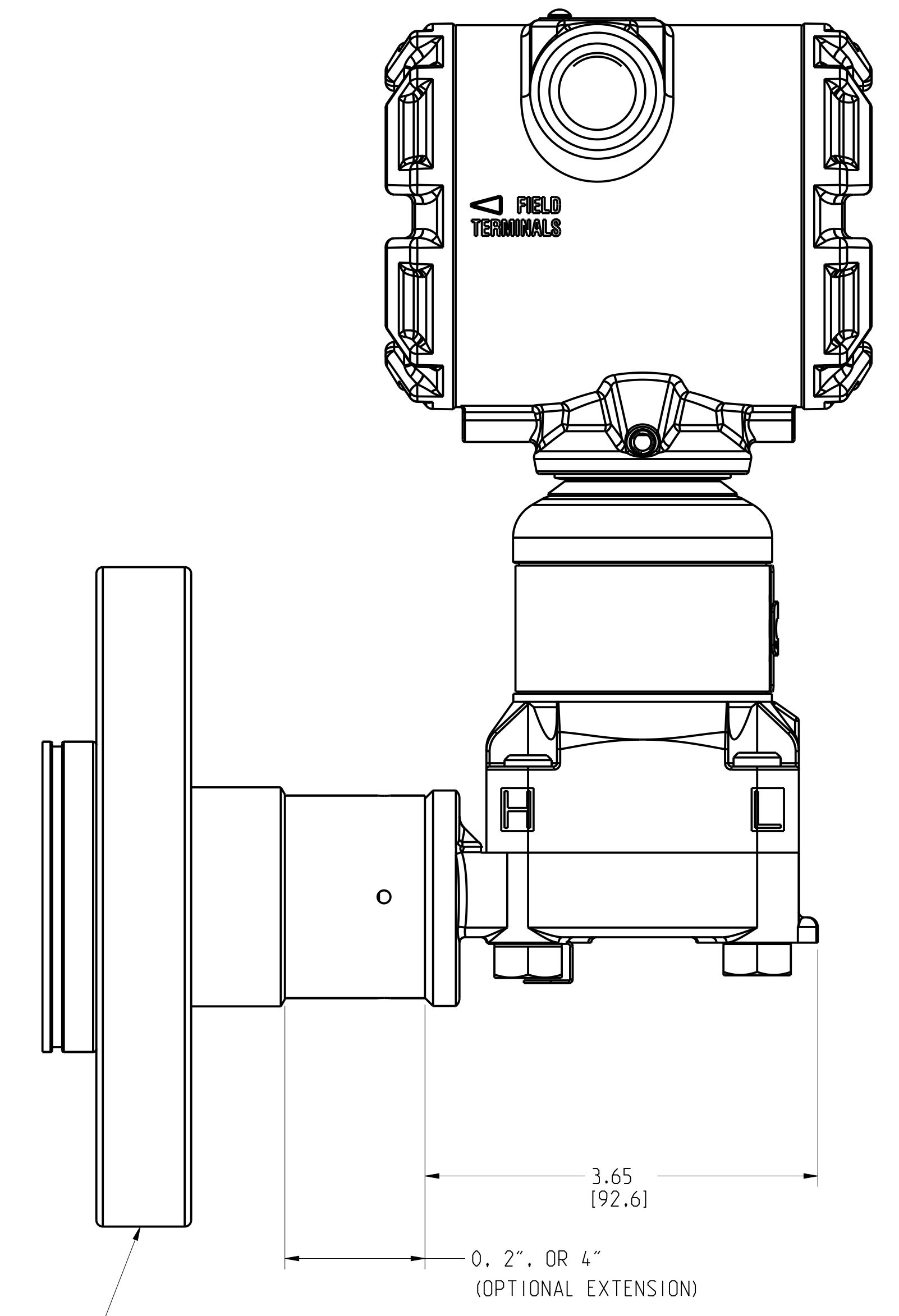
**CAPILLARY CONNECTION SHOWN ON HIGH SIDE WITH 3051SC (REPAIRABLE COPLANAR)**  
 (available also with 3051C AND 2051C)



**CAPILLARY CONNECTION SHOWN ON HIGH SIDE AND LOW SIDE WITH 3051SC (REPAIRABLE COPLANAR)**  
 (available also with 3051C AND 2051C)



**DIRECT MOUNT CONNECTION SHOWN ON HIGH SIDE WITH 3051SC**  
 (available also with 3051C AND 2051C)



SEE THE FOLLOWING PAGES OF THIS TYPE 1 DRAWING FOR THE SPECIFIC DIMENSIONS ON AVAILABLE SEALS. THESE SEALS ARE AVAILABLE FOR THE LOW SIDE WHEN VALUABLE

©2015 ROSEMOUNT INC. ROSEMOUNT INC. ACCEPTS NO LIABILITY FOR THIS DRAWING. THIS DRAWING IS THE PROPERTY OF ROSEMOUNT ENGINEERING SPECIFICATIONS. UNIT NOTES IN INCHES (mm).  
 REFERENCE ROSEMOUNT PRODUCT SPECIFICATIONS FOR PRODUCT SPECIFICATIONS. CLICK HERE

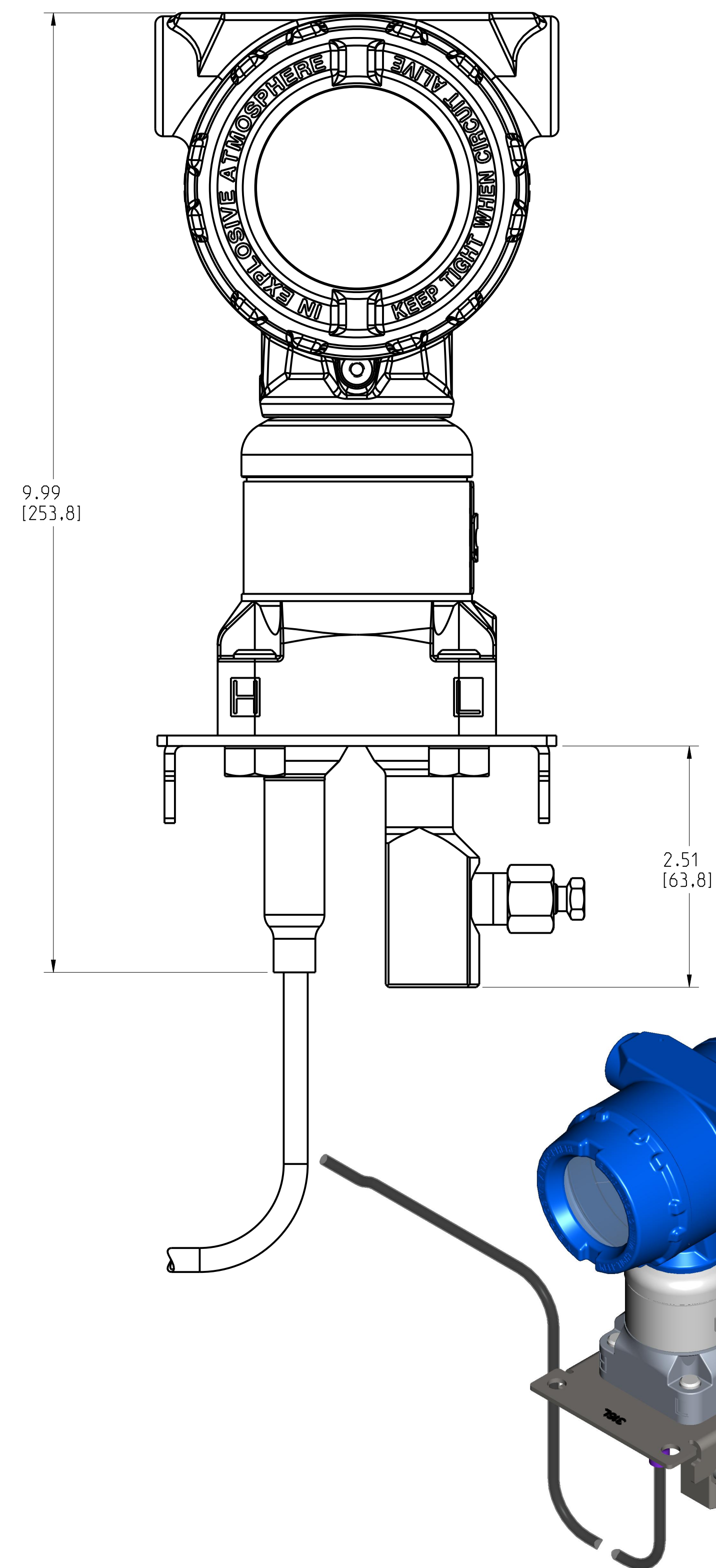
DR.	Z.EDSON	2/9/21	DRAWING NO.	01299-9500
APP'D	L1.BAOGANG	4/18/22		
CAD MAINTAINED (PRO/E)				SHEET 1 OF 19

**EMERSON**  
 TITLE: ROSEMOUNT 1299 SEALS TYPE I DRAWING  
 3RD ANGLE  
 SIZE D  
 SCALE NTS

# ROSEMOUNT 1299 DIAPHRAGM SEALS ASSEMBLED TO COPLANAR TRANSMITTER WITH CAPILLARY SEALS (NO PROCESS FLANGE)

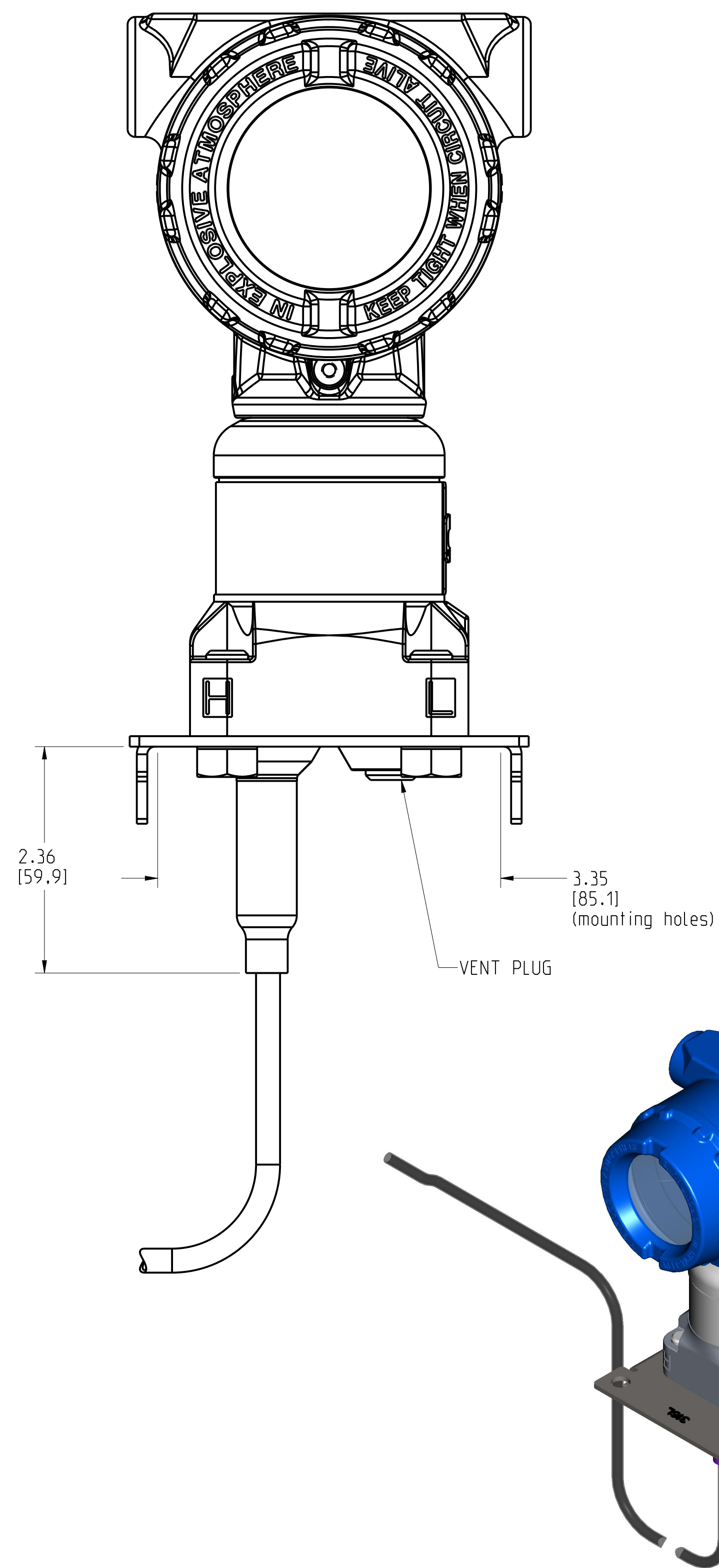
CAPILLARY CONNECTION SHOWN ON HIGH SIDE WITH 3051SC (ALL WELDED COPLANAR LOW SIDE DRAIN / VENT VALVE DESIGN)

(available also with 3051C AND 2051C)



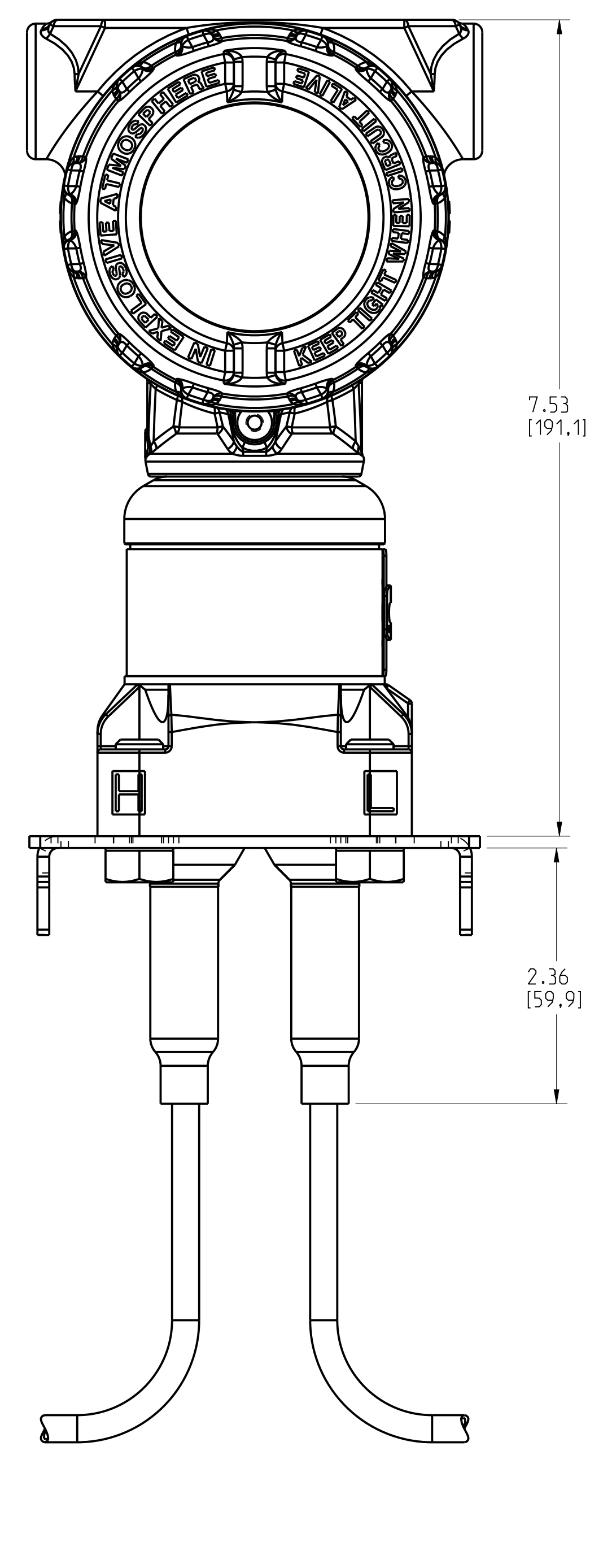
CAPILLARY CONNECTION SHOWN ON HIGH SIDE WITH 3051SC (ALL WELDED COPLANAR)

(available also with 3051C AND 2051C)



CAPILLARY CONNECTION SHOWN ON HIGH SIDE AND LOW SIDE WITH 3051SC (ALL WELDED COPLANAR)

(available also with 3051C AND 2051C)



©2015 ROSEMOUNT INC. ROSEMOUNT INC. ACCEPTS THIS DRAWING AS IS IN ACCORDANCE WITH ROSEMOUNT ENGINEERING SPECIFICATIONS. UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT PRODUCT SHEETS FOR PRODUCT SPECIFICATIONS. CLICK HERE

3RD ANGLE

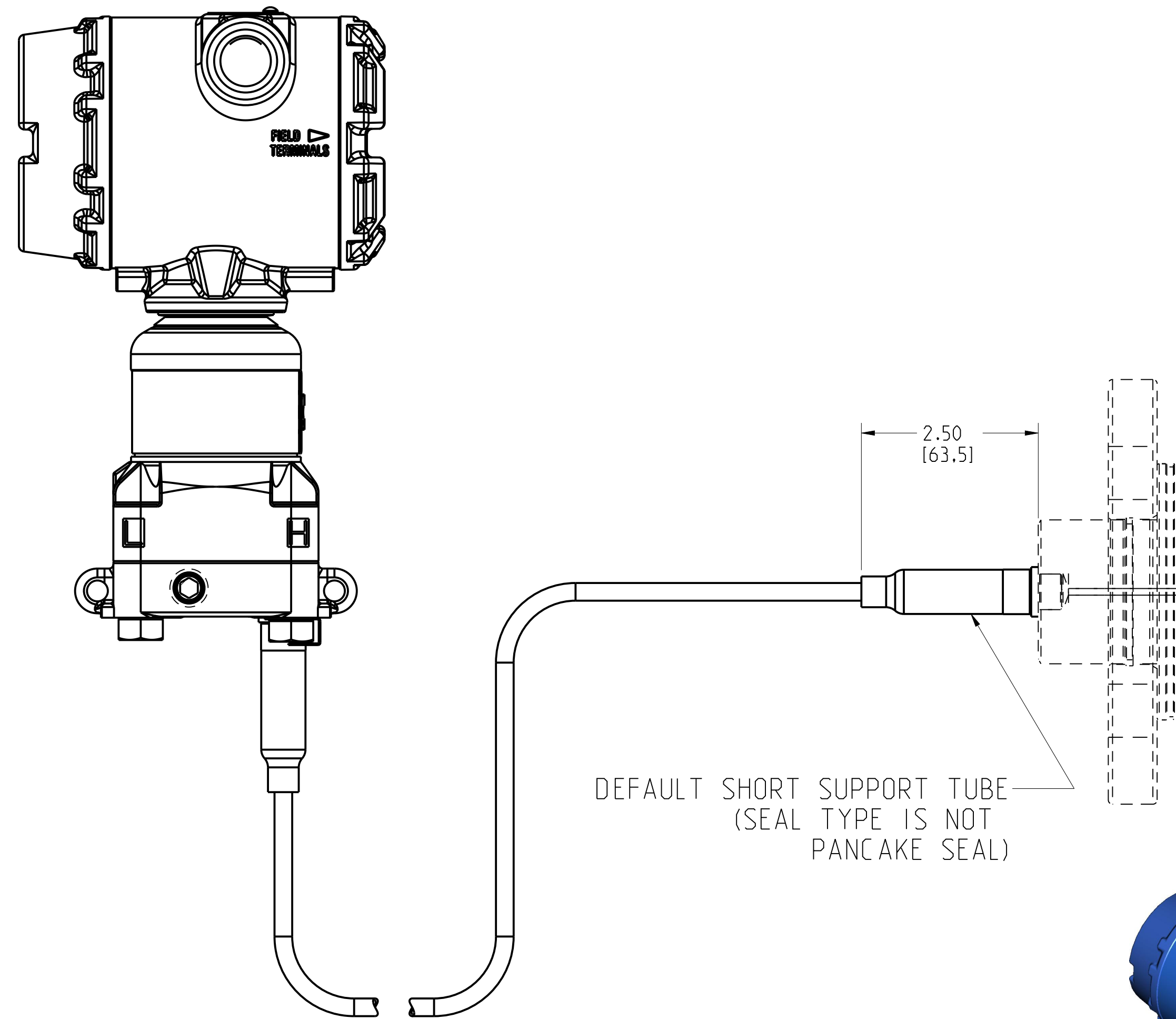
EMERSON

TITLE ROSEMOUNT 1299 SEALS TYPE I DRAWING

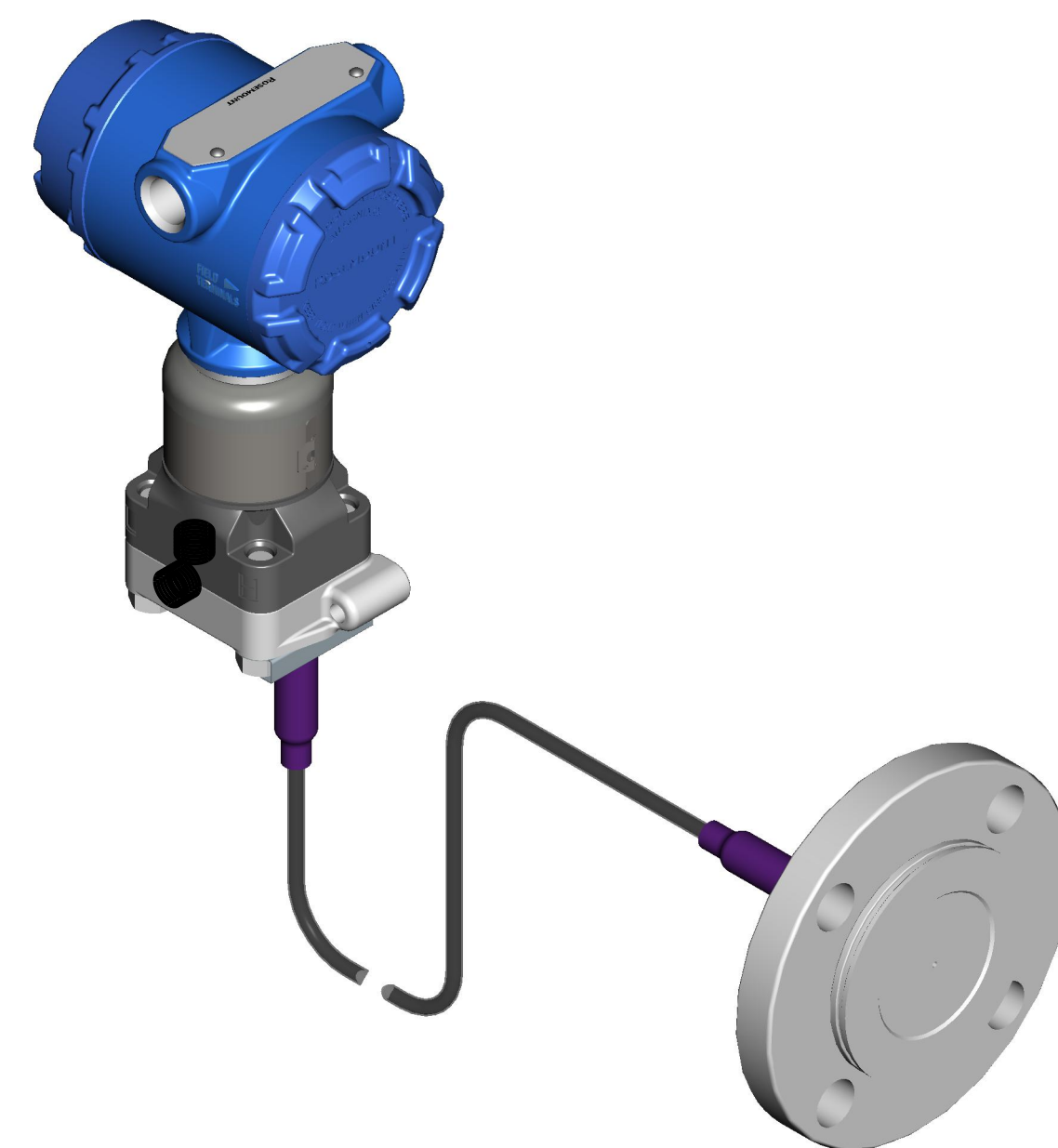
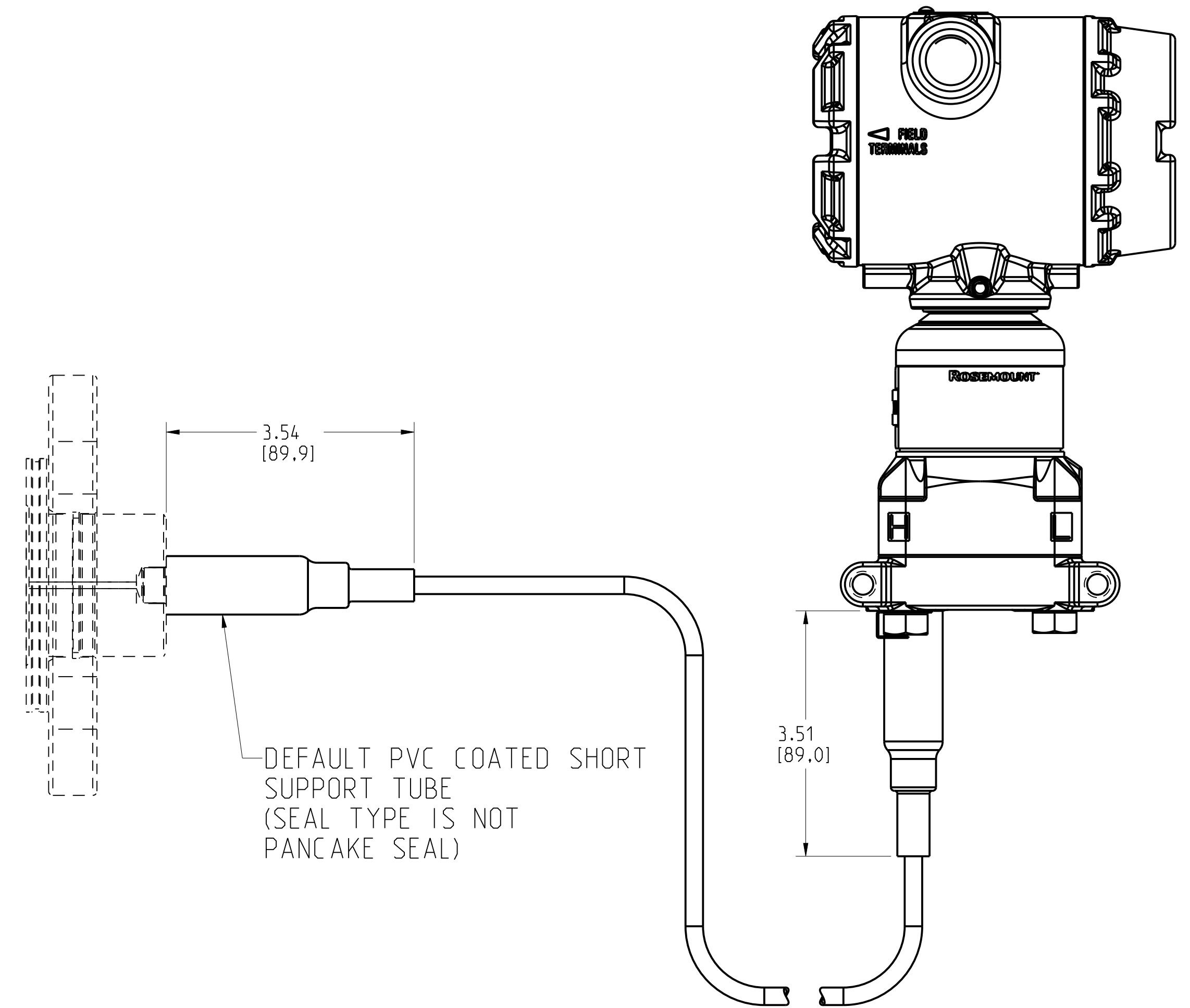
DR.	Z.EDSON	2/9/21	DRAWING NO.	01299-9500
APP'D	L.I. BAOGANG	4/18/22		
CAD MAINTAINED: (PRO/E)				SHEET 2 OF 19

# ROSEMOUNT 1299 DIAPHRAGM SEALS ASSEMBLED TO COPLANAR TRANSMITTER WITH CAPILLARY SEALS

CAPILLARY CONNECTION SHOWN  
 ON HIGH SIDE WITH 3051SC  
 STANDARD CONNECTION  
 (REPAIRABLE COPLANAR)  
 (available also with 3051C AND 2051C)



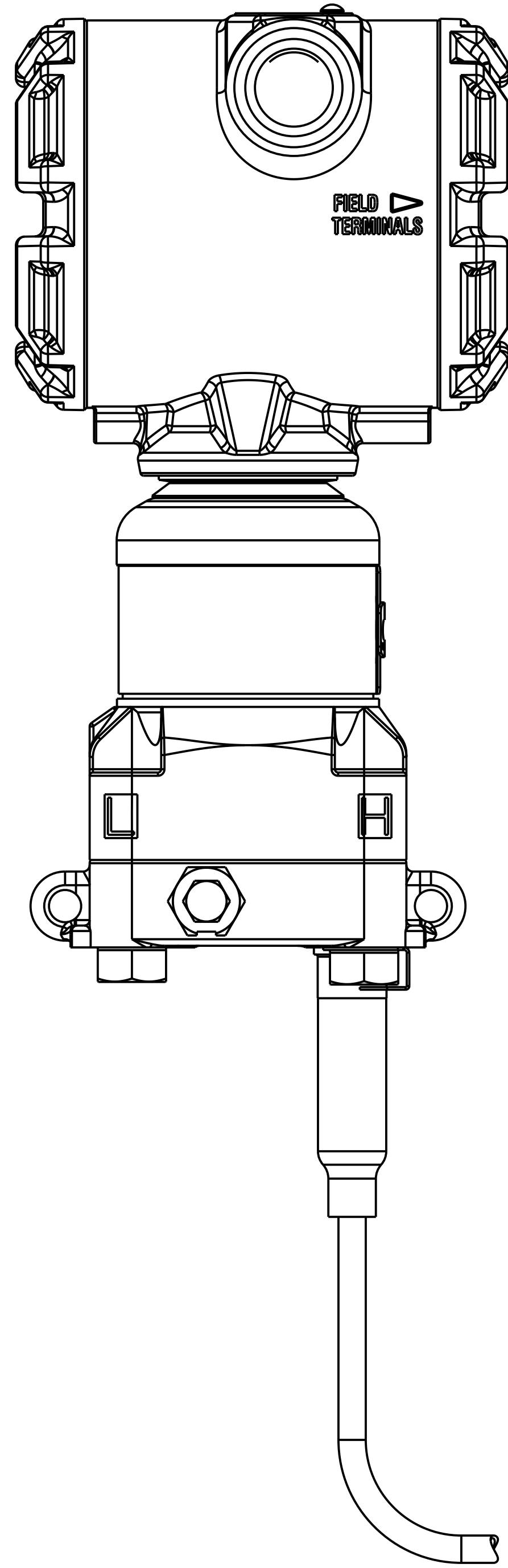
CAPILLARY CONNECTION SHOWN  
 ON HIGH SIDE WITH 3051SC  
 PVC COATED CONNECTION  
 (REPAIRABLE COPLANAR)  
 (available also with 3051C AND 2051C)



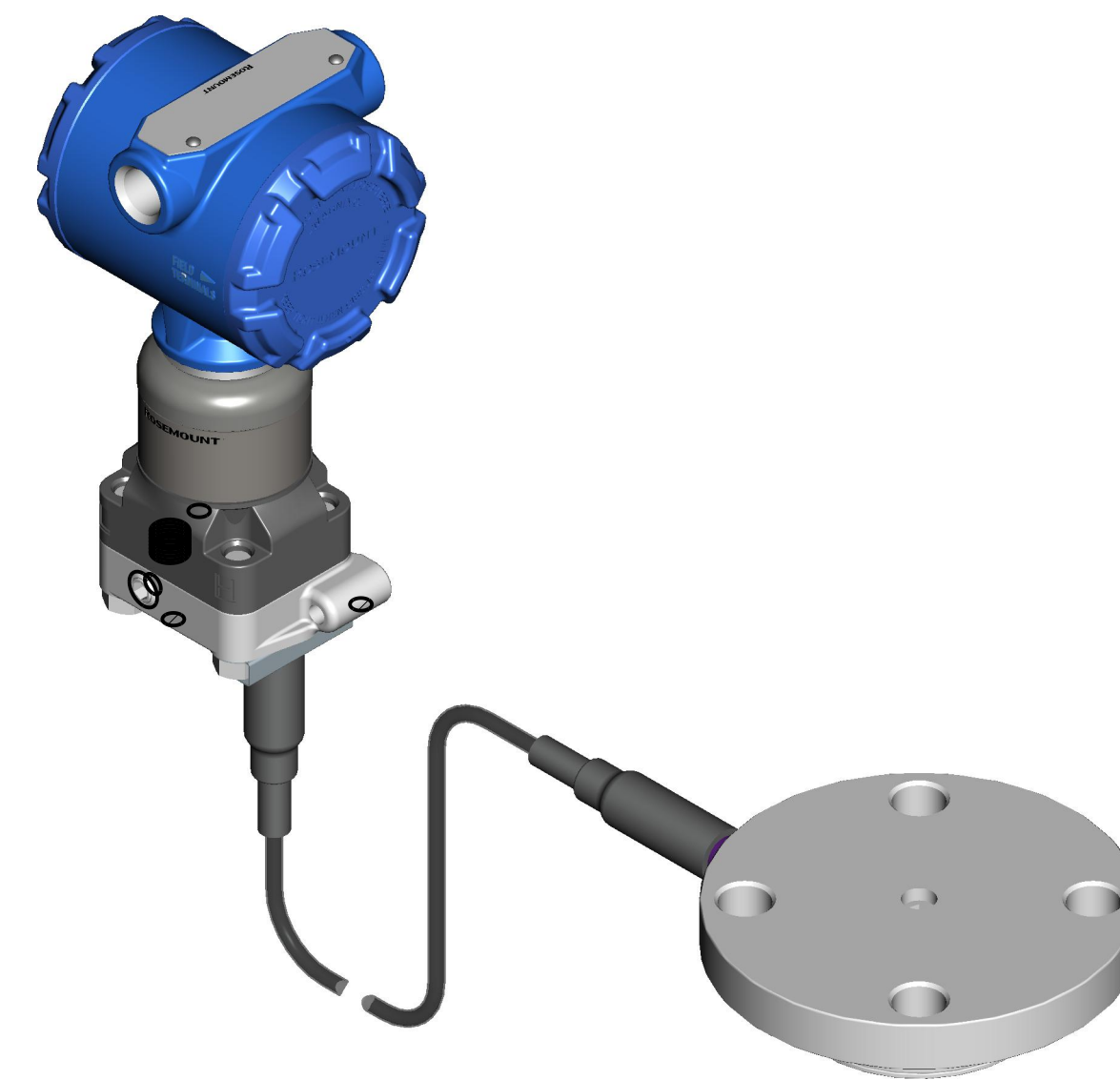
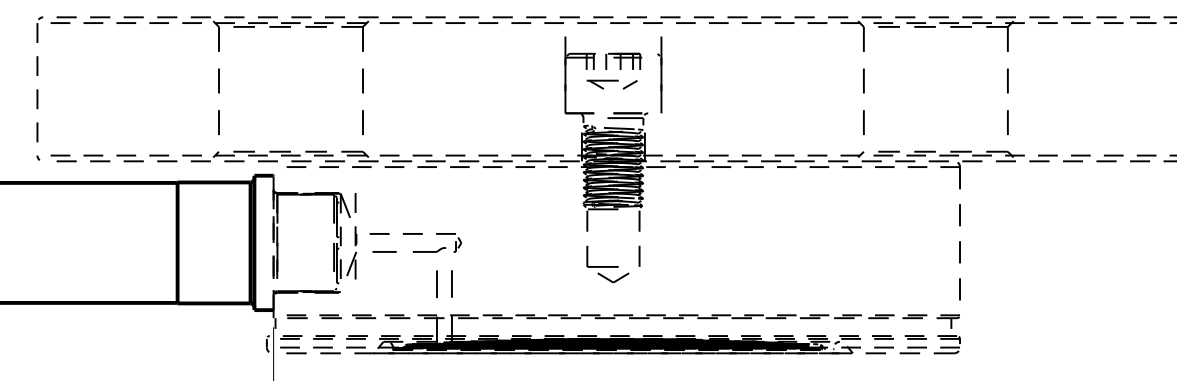
<small>©2015 ROSEMOUNT, INC.          ROSEMOUNT INC. ACCEPTS          LIABILITY FOR THE INFORMATION          PROVIDED HEREIN. THIS          INFORMATION IS PROVIDED IN          ACCORDANCE WITH          ROSEMOUNT ENGINEERING          SPECIFICATIONS.          UNIT NOTES IN INCHES (mm).          REFERENCE ROSEMOUNT          PRODUCT SPECIFICATIONS FOR          PRODUCT SPECIFICATIONS.          CLICK HERE</small>	<small>3RD ANGLE</small>		<small>SIZE</small> D	<small>SCALE</small> NTS
	<b>TITLE</b> ROSEMOUNT 1299 SEALS TYPE I DRAWING			
	<small>DR.</small> Z.EDSON	<small>2/9/21</small>	<small>DRAWING NO.</small>	<b>01299-9500</b>
<small>APP'D</small> L1 BAOGANG	<small>4/18/22</small>			<small>SHEET 3 OF 19</small>
<small>CAD MAINTAINED. (PRO/E)</small>				

ROSEMOUNT 1299 DIAPHRAGM SEALS ASSEMBLED TO COPLANAR TRANSMITTER WITH CAPILLARY SEALS

CAPILLARY CONNECTION SHOWN ON HIGH SIDE WITH 3051SC SUPPORT TUBE CONNECTION (REPAIRABLE COPLANAR)  
(available also with 3051C AND 2051C)



DEFAULT LONG SUPPORT TUBE (SEAL TYPE IS PANCAKE SEAL)



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INCORPORATES  
THIS INFORMATION IN  
THIS ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

3RD ANGLE

EMERSON

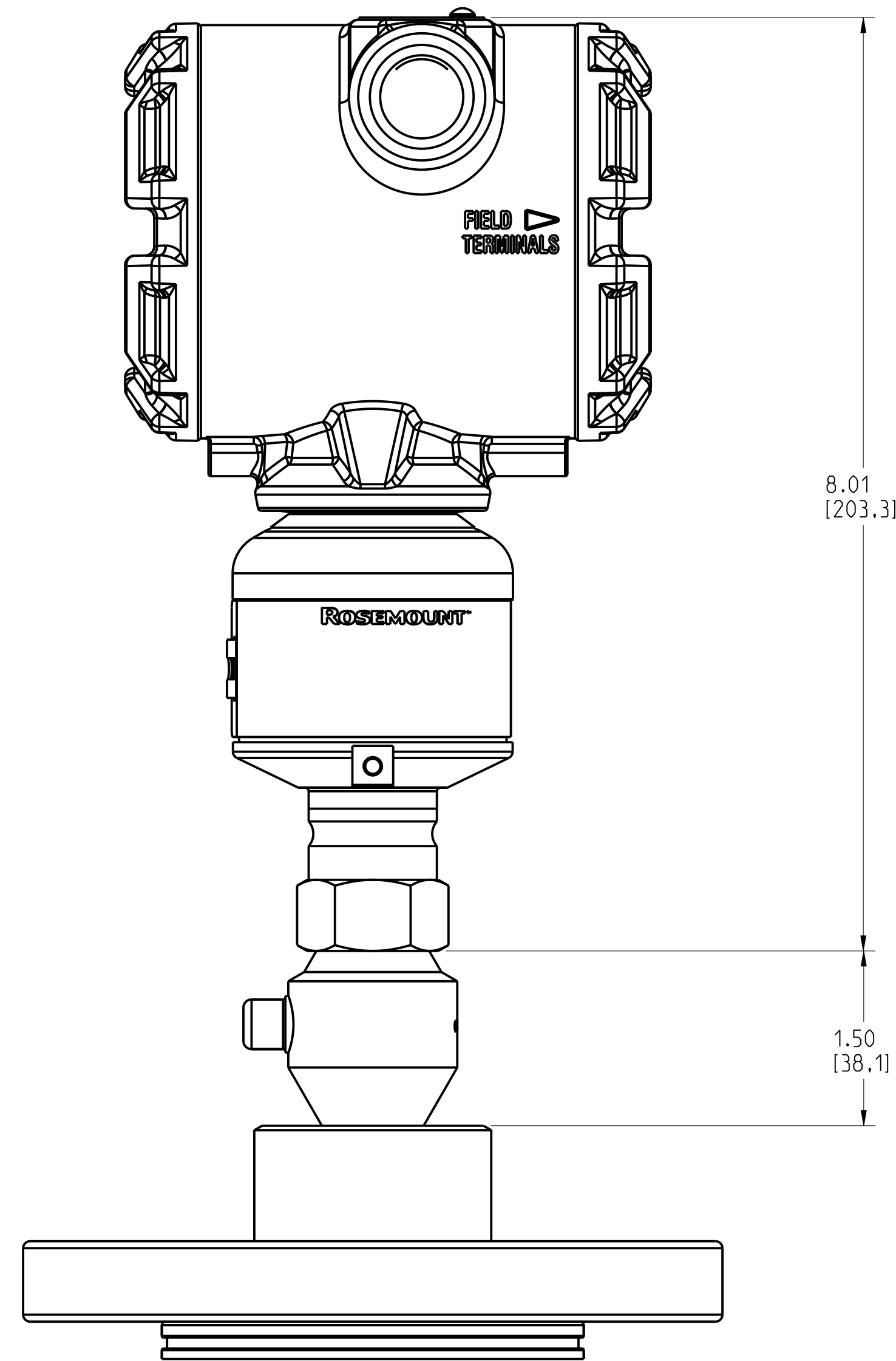
TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

DR.	Z.EDSON	2/9/21	DRAWING NO.	01299-9500
APP'D	L.I. BAOGANG	4/18/22		
CAD MAINTAINED: (PRO/E)				SHEET 4 OF 19

ROSEMOUNT 1299 DIAPHRAGM SEALS ASSEMBLED TO IN-LINE TRANSMITTER  
WITH CAPILLARY AND DIRECT MOUNT SEALS

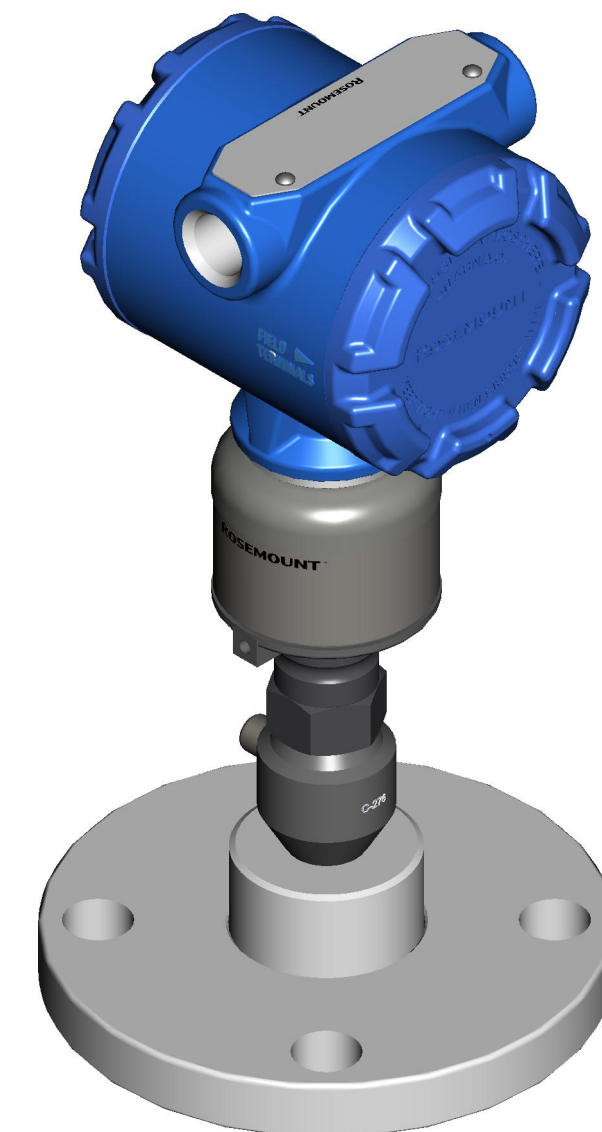
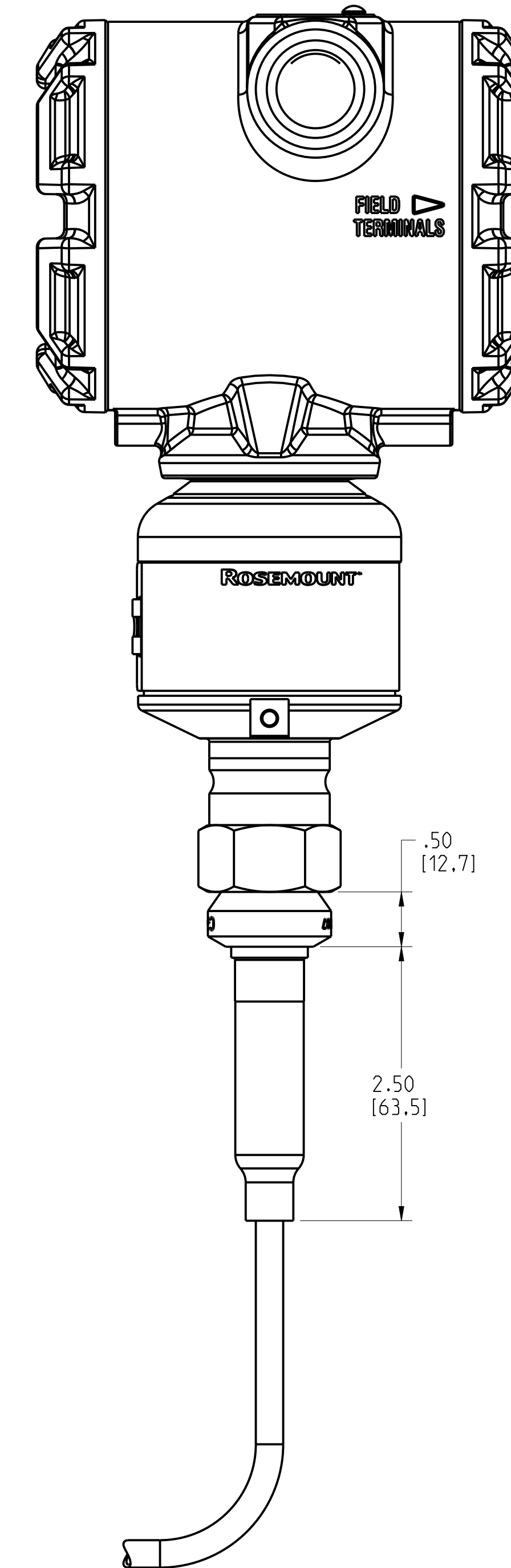
DIRECT CONNECTION SHOWN  
WITH 3051ST

(available also with 3051T, 2088 AND 2051T)



CAPILLARY CONNECTION SHOWN  
WITH 3051ST

(available also with 3051T, 2088 AND 2051T)



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
THIS DRAWING AS IS IN  
THE ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

3RD ANGLE

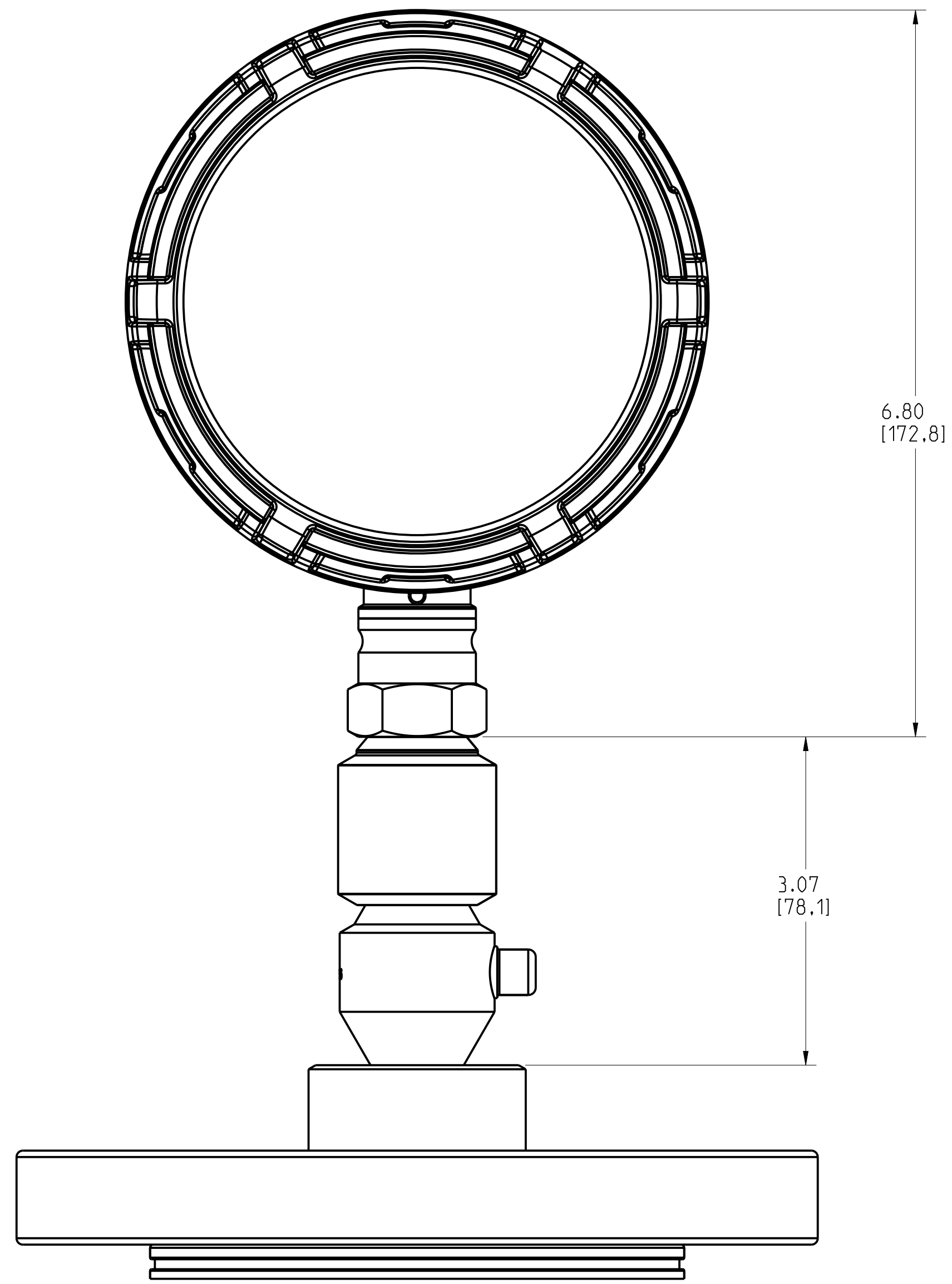
EMERSON

TITLE  
ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

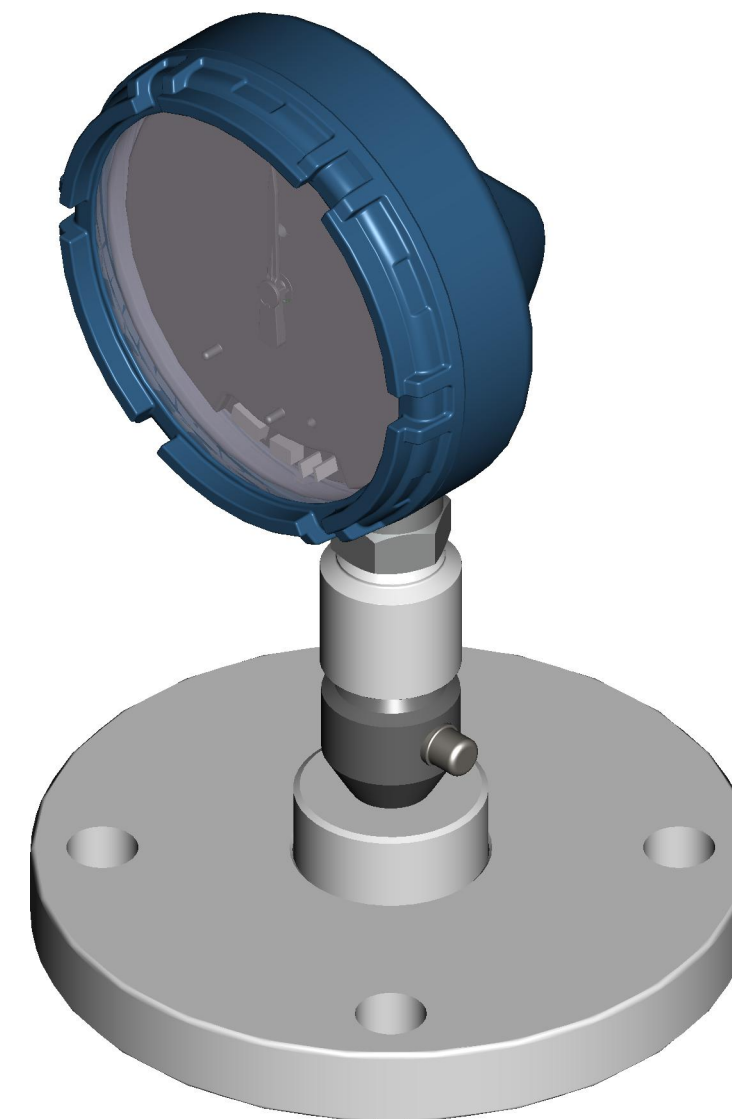
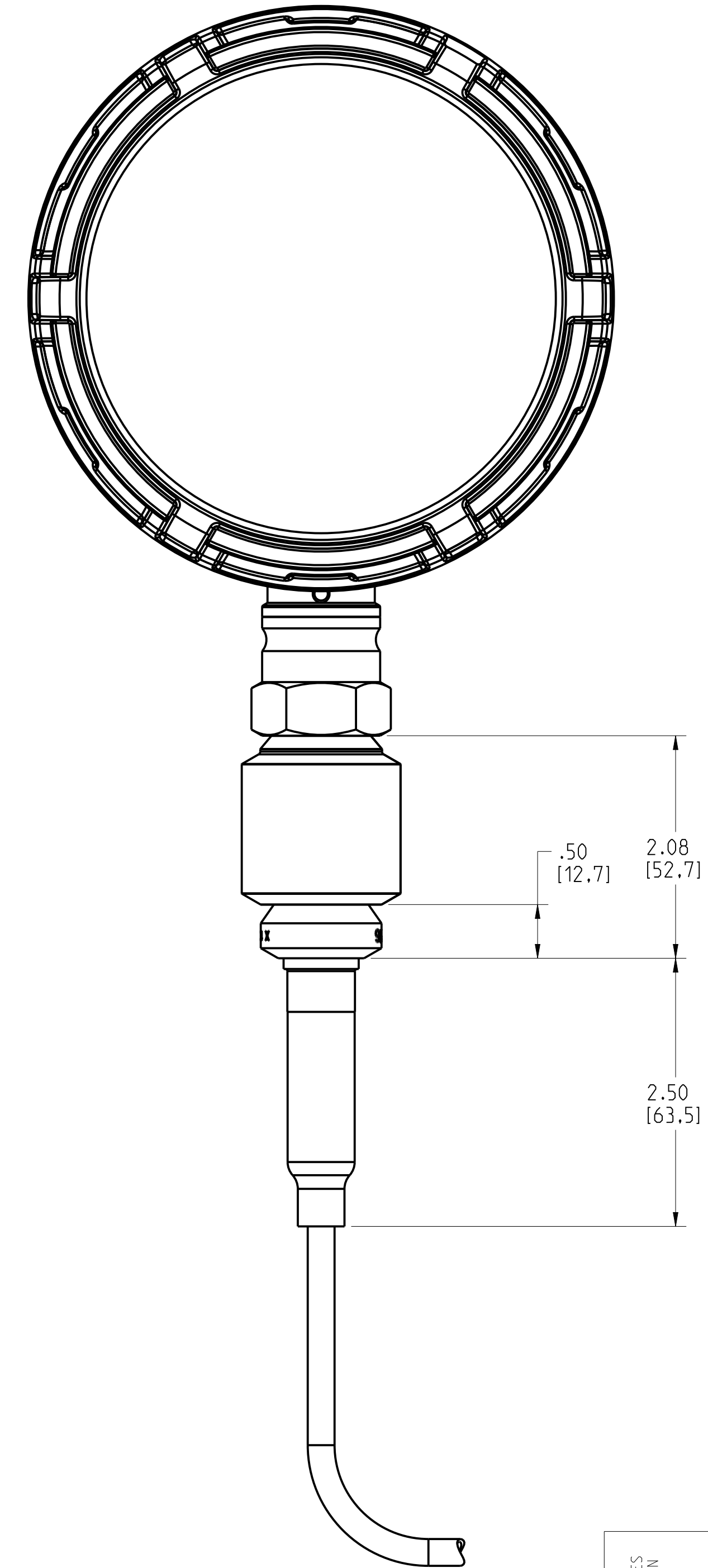
DR.	Z.EDSON	2/9/21	DRAWING NO.	
APP'D	L1 BAOGANG	4/18/22		01299-9500
CAD MAINTAINED (PRO/E)				SHEET 5 OF 19

ROSEMOUNT 1299 DIAPHRAGM SEALS ASSEMBLED TO IN-LINE TRANSMITTER  
WITH CAPILLARY AND DIRECT MOUNT SEALS

DIRECT CONNECTION SHOWN  
WITH WPG/SPG



CAPILLARY CONNECTION SHOWN  
WITH WPG/SPG



©2015 ROSEMOUNT INC.  
ROSEMOUNT INC. ACCEPTS  
LIABILITY FOR THE INFORMATION  
CONTAINED HEREIN IN  
ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SPECIFICATIONS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

EMERSON

TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D LI BAOGANG 4/18/22

CAD MAINTAINED (PRO/EI) SHEET 6 OF 19

3RD ANGLE

SIZE D SCALE NTS

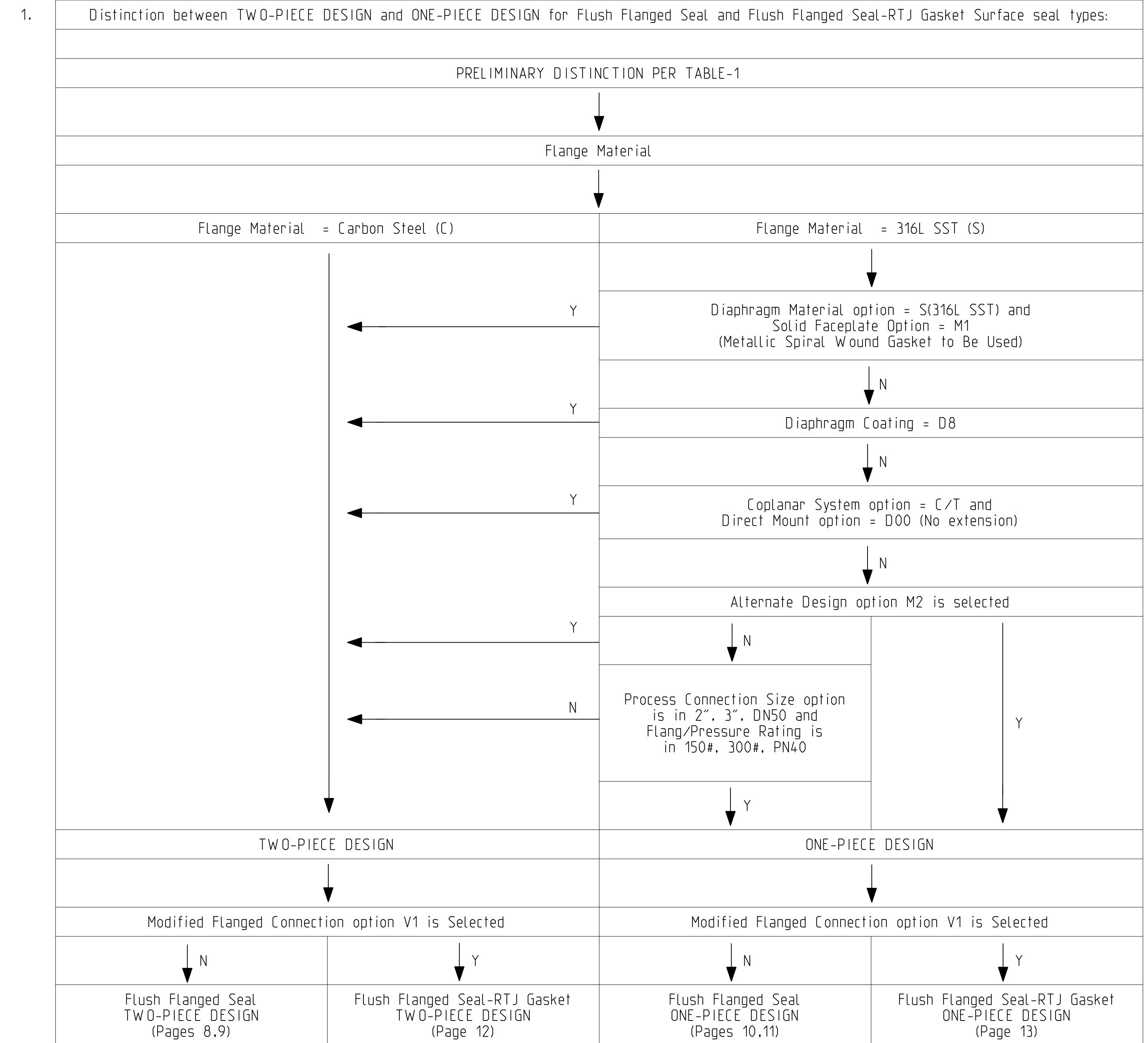
INDEX: SPECIFY SEAL TYPE

SEAL TYPE	INDUSTRY STANDARD	FLANGE MATERIAL	SCHEMATIC DRAWING	DRAWING PAGE
Flush Flanged Seal	- ASME B16.5 RF / HG20615 EN1092-1 TYPE B / HG20592 - GOST 33259-15 TYPE B	C - Carbon Steel S - 316L SST		8, 9
		S - 316L SST		10, 11
Flush Flanged Seal -RTJ Gasket Surface	- ASME B16.5 RTJ	C - Carbon Steel S - 316L SST		12
		S - 316L SST		13

SEAL TYPE	INDUSTRY STANDARD	FLANGE MATERIAL	SCHEMATIC DRAWING	DRAWING PAGE
Remote Flanged Seal -RTJ Gasket Surface	- ASME B16.5 RTJ	S - 316L SST		16
Remote Flanged Seal	- ASME B16.5 RF / HG20615 EN1092-1 TYPE B / HG20592 - GOST 33259-15 TYPE B	S - 316L SST		17
		C - Carbon Steel S - 316L SST		18

SEAL TYPE	DESCRIPTION	SCHEMATIC DRAWING	DRAWING PAGE
Extended Flanged Seal	EXTENSION LENGTH OPTIONS: 2 - 2"(50mm) 4 - 4"(100mm) 6 - 6"(150mm) 8 - 8"(200mm)		14
Pancake Seal	FLANGE NOT PROVIDED AS DEFAULT/ ORDERED SEPARATELY AS SPARE PART		15
Threaded Seal	THREADED PROCESS CONNECTION (FEMALE)		19

NOTES:



2.

PROCESS CONNECTION SIZE	FLANGE/PRESSURE RATING			
	150#	300#	600#	900#
1/2"	SD	SD	SD	SD
3/4"	SD	SS	SS	SS
1"	SS	SS	SS	SS
1-1/2"	SS	SS	SS	SS

PROCESS CONNECTION SIZE	FLANGE/PRESSURE RATING		
	PN40	PN63	PN100
DN10	SD	USE PN100	SD
DN15	SD	USE PN100	SD
DN20	SD	USE PN100	SS
DN25	SS	USE PN100	SS
DN40	SS	USE PN100	SS

SS = STANDARD INERT DESIGN

SD = STUD BOLTED DESIGN

©2015 ROSEMOUNT INC. ROSEMOUNT INC. ACCEPTS THE ACCURACY WITH ROSEMOUNT ENGINEERING SPECIFICATIONS. UNIT NOTES IN INCHES (mm). REFERENCE ROSEMOUNT PRODUCT SPECIFICATIONS FOR PRODUCT SPECIFICATIONS. CLICK HERE

3RD ANGLE

**EMERSON**

TITLE: ROSEMOUNT 1299 SEALS TYPE I DRAWING

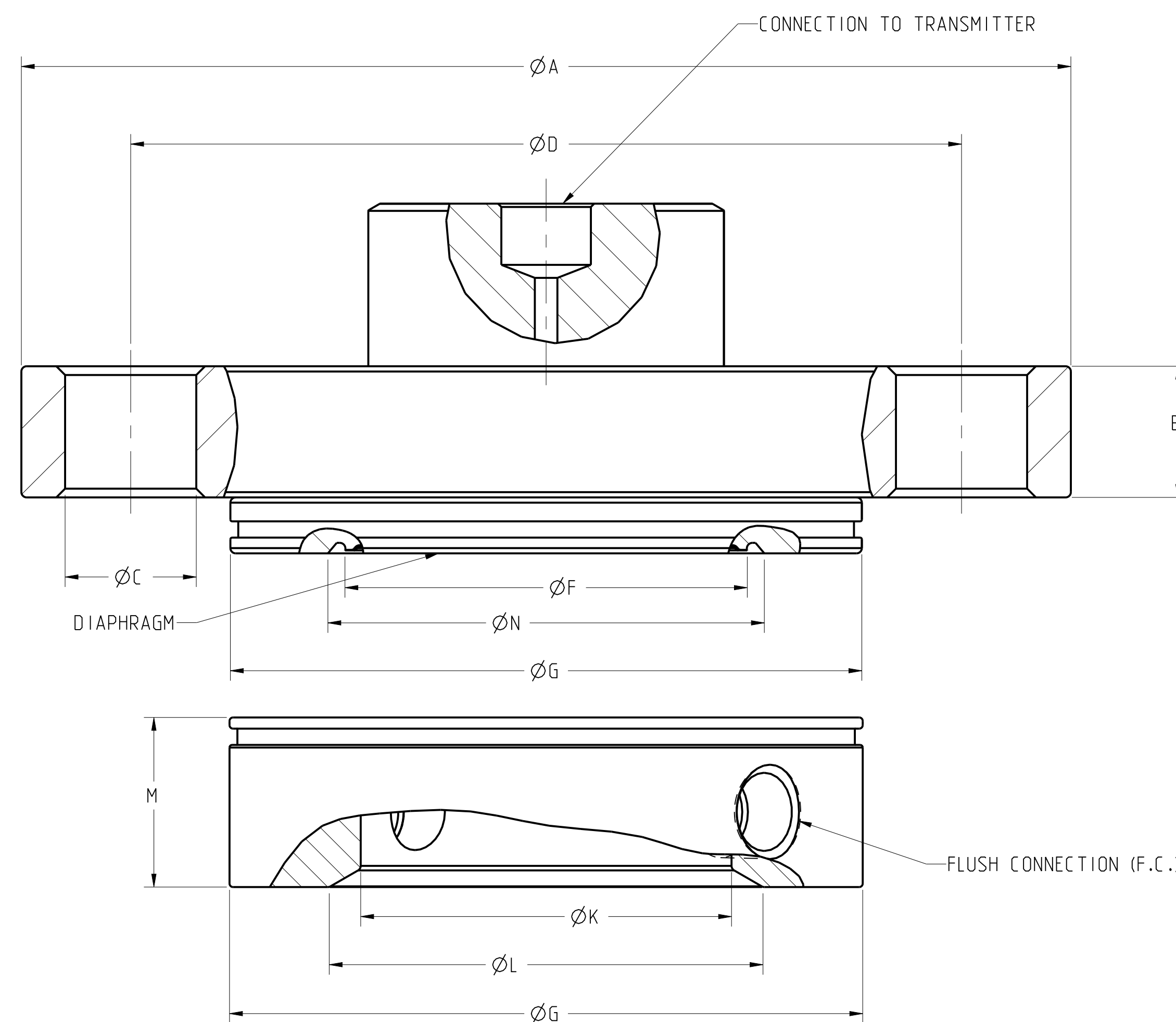
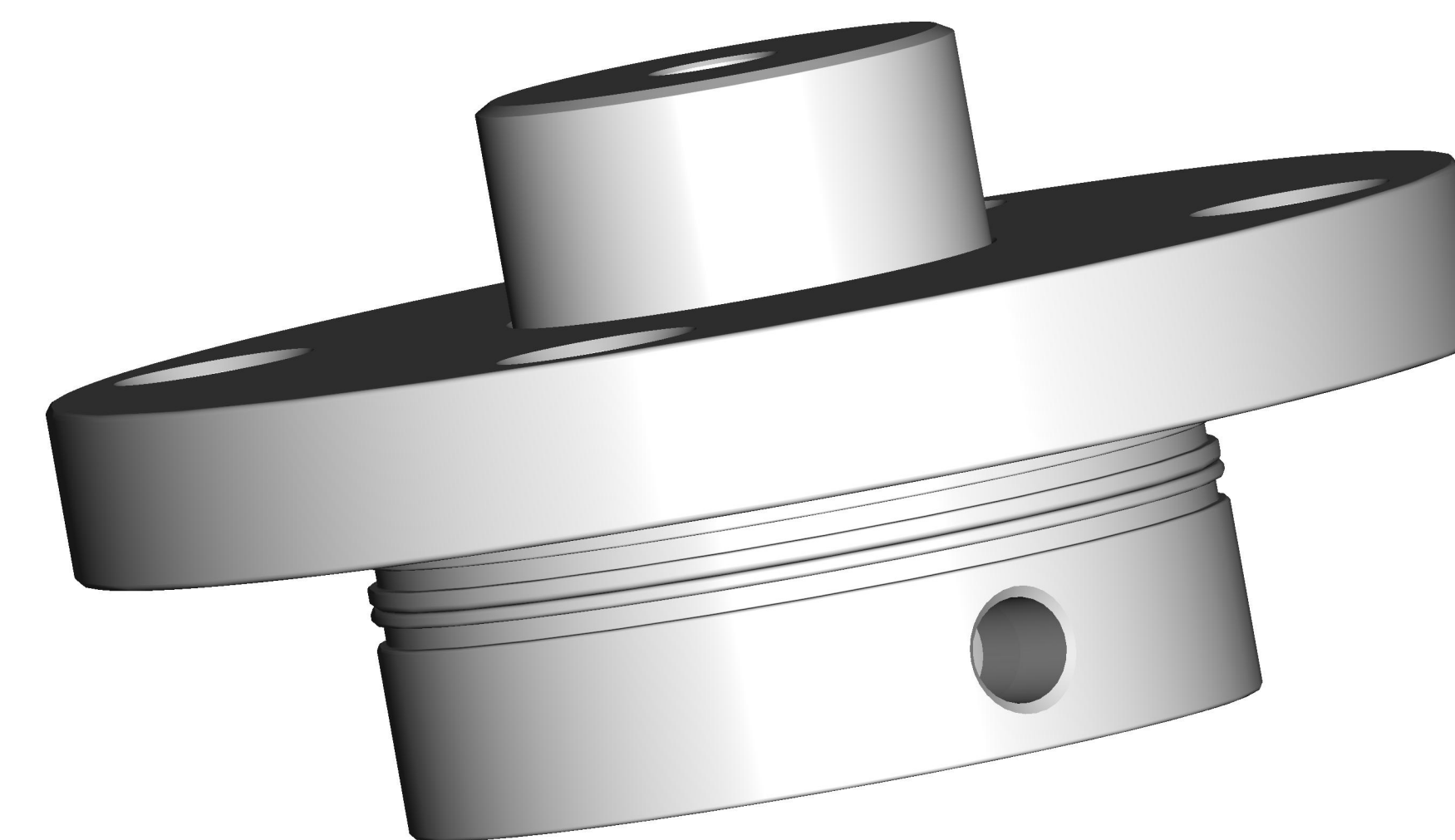
DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D L1 BAOGANG 4/18/22

CAD MAINTAINED. (PRO/E) SHEET 7 OF 19

FLUSH FLANGED SEAL (TWO-PIECE)

	PIPE SIZE	CLASS	FLANGE DIAMETER "A" in.(mm)	FLANGE THICKNESS "B" in.(mm)	BOLT HOLE DIAMETER "C" in.(mm)	BOLT CIRCLE DIAMETER "D" in.(mm)	# OF BOLTS	STANDARD DIAPHRAGM DIAMETER "F" in.(mm)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150 lb.	6.00 [152]	0.69 [18]	0.75 [19]	4.75 [121]	4	2.30 [58]
		300 lb.	6.50 [165]	0.81 [21]	0.75 [19]	5.00 [127]	8	2.30 [58]
		600 lb.	6.50 [165]	1.00 [25]	0.75 [19]	5.00 [127]	8	2.30 [58]
		900 lb.	8.50 [216]	1.50 [38]	1.00 [25]	6.50 [165]	8	2.30 [58]
	3-in.	150 lb.	7.50 [191]	0.88 [22]	0.75 [19]	6.00 [152]	4	3.50 [89]
		300 lb.	8.25 [210]	1.06 [27]	0.88 [22]	6.62 [168]	8	3.50 [89]
		600 lb.	8.25 [210]	1.25 [32]	0.88 [22]	6.62 [168]	8	3.50 [89]
		900 lb.	9.50 [241]	1.50 [38]	1.00 [25]	7.50 [191]	8	3.50 [89]
	4-in.	150 lb.	9.00 [229]	0.88 [22]	0.75 [19]	7.50 [191]	8	3.50 [89]
		300 lb.	10.00 [254]	1.19 [30]	0.88 [22]	7.88 [200]	8	3.50 [89]
		600 lb.	10.75 [273]	1.50 [38]	1.00 [25]	8.50 [216]	8	3.50 [89]
		900 lb.	11.50 [292]	1.75 [44]	1.25 [32]	9.25 [235]	8	3.50 [89]
EN1092-1/ HG20592/ GOST33259-15	DN50	PN40	6.50 [165]	0.67 [17]	0.71 [18]	4.92 [125]	4	2.30 [58]
		PN63	7.09 [180]	0.91 [23]	0.87 [22]	5.31 [135]	4	2.30 [58]
		PN100	7.68 [195]	0.99 [25]	1.02 [26]	5.71 [145]	4	2.30 [58]
	DN80	PN40	7.87 [200]	0.94 [24]	0.71 [18]	6.30 [160]	8	3.50 [89]
		PN63	8.46 [215]	1.10 [28]	0.88 [22]	6.69 [170]	8	3.50 [89]
		PN100	9.06 [230]	1.26 [32]	1.02 [26]	7.09 [180]	8	3.50 [89]
	DN100	PN40	9.25 [235]	0.94 [24]	0.87 [22]	7.48 [190]	8	3.50 [89]
		PN63	9.84 [250]	1.18 [30]	1.02 [26]	7.87 [200]	8	3.50 [89]
		PN100	10.43 [265]	1.30 [33]	1.18 [30]	8.27 [210]	8	3.50 [89]



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
THIS DRAWING AS THE FINAL  
DESIGN AND SHALL BE RESPONSIBLE  
FOR THE DESIGN AND CONSTRUCTION  
IN ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).  
REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

		3RD ANGLE		SIZE	SCALE
		D		D	NTS
TITLE ROSEMOUNT 1299 SEALS TYPE I DRAWING					
DR.	Z.EDSON	2/9/21	DRAWING NO.		01299-9500
APP'D	L.I. BAOGANG	4/18/22			
CAD MAINTAINED: (PRO/EI)					SHEET 8 OF 19

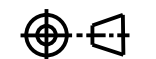


FLUSH FLANGED SEAL (TWO-PIECE)

	PIPE SIZE	CLASS	RAISED FACE DIAMETER "G" in.(mm)	INNER DIAMETER "K" in.(mm)	BEVELED DIAMETER "L" in.(mm)	THICKNESS WITH 1/4-NPT F.C. "M" in.(mm)	THICKNESS WITH 1/2-NPT F.C. "M" in.(mm)	MINIMUM GASKET I.D. "N" in.(mm)	WEIGHT lb. (Kg)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150 lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	7.40 [3.36]
		300 lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	8.99 [4.08]
		600 lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	10.44 [4.74]
		900 lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	24.62 [11.17]
	3-in.	150 lb.	5.00 [127]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	13.79 [6.26]
		300 lb.	5.00 [127]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	17.84 [8.09]
		600 lb.	5.00 [127]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	20.31 [9.21]
		900 lb.	5.00 [127]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	33.21 [15.06]
	4-in.	150 lb.	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	19.56 [8.87]
		300 lb.	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	29.56 [13.41]
		600 lb.	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	40.73 [18.48]
		900 lb.	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	53.16 [24.11]
EN1092-1/ HG20592/ GOST33259-15	DN50	PN40	4.00 [102]	2.40 [61]	-	0.97 [25]	1.30 [33]	2.50 [63]	9.02 [4.09]
		PN63	4.00 [102]	2.40 [61]	-	0.97 [25]	1.30 [33]	2.50 [63]	12.58 [5.71]
		PN100	4.00 [102]	2.40 [61]	-	0.97 [25]	1.30 [33]	2.50 [63]	15.23 [6.91]
	DN80	PN40	5.43 [138]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	15.03 [6.82]
		PN63	5.43 [138]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	18.87 [8.56]
		PN100	5.43 [138]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	23.34 [10.59]
	DN100	PN40	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	20.31 [9.21]
		PN63	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	26.74 [12.13]
		PN100	6.20 [157]	3.60 [91]	-	0.97 [25]	1.30 [33]	3.70 [94]	34.26 [15.54]

©2015 ROSEMOUNT, INC.  
ROSEMOUNT INCERTIFIES  
THIS DRAWING TO BE IN  
ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

3RD ANGLE  SIZE D SCALE NTS

**EMERSON**

TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

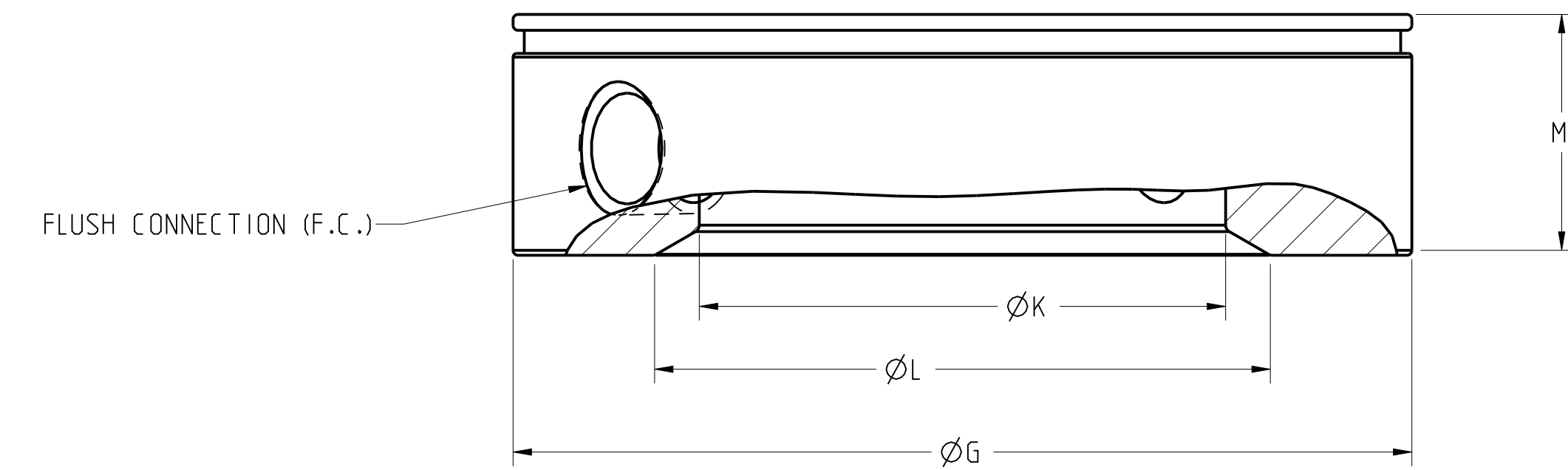
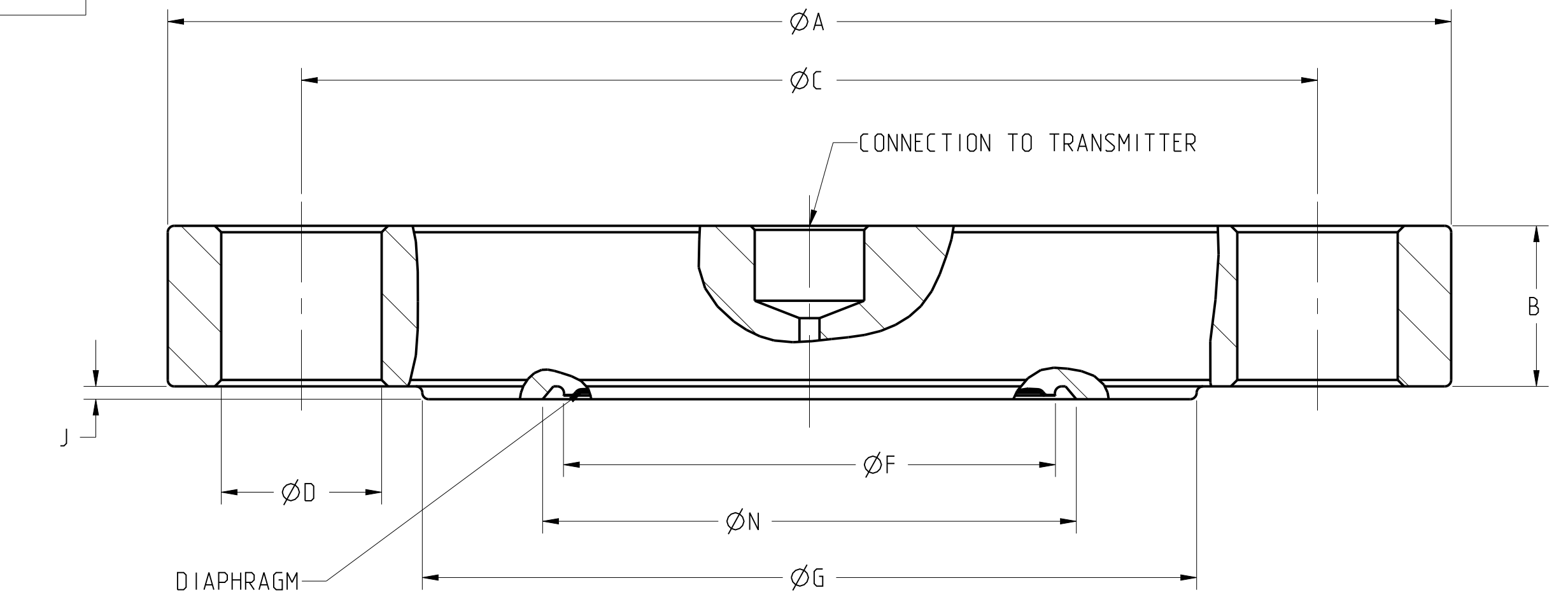
DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D LI BAOGANG 4/18/22

CAD MAINTAINED (PRO/E) SHEET 9 OF 19

**FLUSH FLANGED SEAL (ONE-PIECE)**

	PIPE SIZE	CLASS	FLANGE DIAMETER "A" in.(mm)	FLANGE THICKNESS "B" in.(mm)	BOLT HOLE DIAMETER "D" in.(mm)	BOLT CIRCLE "C" in.(mm)	# OF BOLTS	STANDARD DIAPHRAGM DIAMETER "F" in.(mm)
ANSI/ ASME	2-in.	150 lb.	6.00 (152)	0.69 (18)	0.75 (19)	4.75 (121)	4	2.30 (58)
		300 lb.	6.50 (165)	0.81 (21)	0.75 (19)	5.00 (127)	8	2.30 (58)
		600 lb.	6.50 (165)	1.00 (25)	0.75 (19)	5.00 (127)	8	2.30 (58)
		900 lb.	8.50 (216)	1.50 (38)	1.00 (25)	6.50 (165)	8	2.30 (58)
	3-in.	150 lb.	7.50 (191)	0.88 (22)	0.75 (19)	6.00 (152)	4	3.50 (89)
		300 lb.	8.25 (210)	1.06 (27)	0.88 (22)	6.62 (168)	8	3.50 (89)
		600 lb.	8.25 (210)	1.25 (32)	0.88 (22)	6.62 (168)	8	3.50 (89)
		900 lb.	9.50 (241)	1.50 (38)	1.00 (25)	7.50 (191)	8	3.50 (89)
	4-in.	150 lb.	9.00 (229)	0.88 (22)	0.75 (19)	7.50 (191)	8	3.50 (89)
		300 lb.	10.0 (254)	1.19 (30)	0.88 (22)	7.88 (200)	8	3.50 (89)
		600 lb.	10.75 (273)	1.50 (38)	1.00 (25)	8.50 (216)	8	3.50 (89)
		900 lb.	11.50 (292)	1.75 (45)	1.25 (32)	9.25 (235)	8	3.50 (89)
EN 1092-1	DN 50	PN 40	6.50 (165)	0.67 (17)	0.71 (18)	4.92 (125)	4	2.30 (58)
		PN 63	7.09 (180)	0.91 (23)	0.87 (22)	5.31 (135)	4	2.30 (58)
		PN 100	7.68 (195)	0.99 (25)	1.02 (26)	5.71 (145)	4	2.30 (58)
	DN 80	PN 40	7.87 (200)	0.94 (24)	0.71 (18)	6.30 (160)	8	3.50 (89)
		PN 63	8.46 (215)	1.10 (28)	0.88 (22)	6.69 (170)	8	3.50 (89)
		PN 100	9.06 (230)	1.26 (32)	1.02 (26)	7.09 (180)	8	3.50 (89)
	DN 100	PN 40	9.25 (235)	0.94 (24)	0.87 (22)	7.48 (190)	8	3.50 (89)
		PN 63	9.84 (250)	1.18 (30)	1.02 (26)	7.87 (200)	8	3.50 (89)
		PN 100	10.43 (265)	1.30 (33)	1.18 (30)	8.27 (210)	8	3.50 (89)



©2015 ROSEMOUNT INC. ROSEMOUNT INC. ACCEPTS RESPONSIBILITY FOR THE ACCURACY WITH WHICH THIS DRAWING IS USED FOR PRODUCT SPECIFICATIONS. REFERENCE ROSEMOUNT PRODUCT SHEETS FOR PRODUCT SPECIFICATIONS. UNIT NOTES IN INCHES (mm).

EMERSON

TITLE ROSEMOUNT 1299 SEALS TYPE I DRAWING

DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D LI BAOGANG 4/18/22

CAD MAINTAINED. (PRO/E) SHEET 10 OF 19

3RD ANGLE

SIZE D

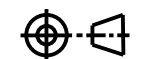
SCALE NTS

FLUSH FLANGED SEAL (ONE-PIECE)

	PIPE SIZE	CLASS	RAISED FACE OUTER DIAMETER "G" in.(mm)	INNER DIAMETER "K" in.(mm)	RAISED FACE HEIGHT "J" in.(mm)	BEVELED EDGE "L" in.(mm)	THICKNESS WITH 1/4-NPT F.C. "M" in.(mm)	THICKNESS WITH 1/2-NPT F.C. "M" in.(mm)	MINIMUM GASKET I.D. "N" in.(mm)	WEIGHT lb. (Kg)
ANSI/ ASME	2-in.	150 lb.	3.62 [92]	2.12 [54]	0.06 [1.5]	2.48 [63]	0.97 [25]	1.30 [33]	2.62 [67]	7.46 [3.38]
		300 lb.	3.62 [92]	2.12 [54]	0.06 [1.5]	2.48 [63]	0.97 [25]	1.30 [33]	2.62 [67]	9.12 [4.14]
		600 lb.	3.62 [92]	2.12 [54]	0.25 [6.4]	2.48 [63]	0.97 [25]	1.30 [33]	2.62 [67]	11.28 [5.12]
		900 lb.	3.62 [92]	2.12 [54]	0.25 [6.4]	2.48 [63]	0.97 [25]	1.30 [33]	2.62 [67]	20.24 [9.18]
	3-in.	150 lb.	5.00 [127]	3.60 [91]	0.06 [1.5]	-	0.97 [25]	1.30 [33]	3.70 [94]	14.05 [6.37]
		300 lb.	5.00 [127]	3.60 [91]	0.06 [1.5]	-	0.97 [25]	1.30 [33]	3.70 [94]	18.18 [8.25]
		600 lb.	5.00 [127]	3.60 [91]	0.25 [6.4]	-	0.97 [25]	1.30 [33]	3.70 [94]	21.80 [9.89]
		900 lb.	5.00 [127]	3.60 [91]	0.25 [6.4]	-	0.97 [25]	1.30 [33]	3.70 [94]	32.30 [14.65]
	4-in.	150 lb.	6.20 [157]	3.60 [91]	0.06 [1.5]	-	0.97 [25]	1.30 [33]	3.70 [94]	21.71 [9.85]
		300 lb.	6.20 [157]	3.60 [91]	0.06 [1.5]	-	0.97 [25]	1.30 [33]	3.70 [94]	31.84 [14.44]
		600 lb.	6.20 [157]	3.60 [91]	0.25 [6.4]	-	0.97 [25]	1.30 [33]	3.70 [94]	44.70 [20.27]
		900 lb.	6.20 [157]	3.60 [91]	0.25 [6.4]	-	0.97 [25]	1.30 [33]	3.70 [94]	55.60 [25.22]
EN 1092-1	DN50	PN40	4.00 [102]	2.40 [61]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	2.50 [64]	8.65 [3.92]
		PN63	4.00 [102]	2.40 [61]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	2.50 [64]	12.23 [5.45]
		PN100	4.00 [102]	2.40 [61]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	2.50 [64]	14.79 [6.71]
	DN80	PN40	5.43 [138]	3.60 [91]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	3.70 [94]	15.03 [6.82]
		PN63	5.43 [138]	3.60 [91]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	3.70 [94]	18.79 [8.52]
		PN100	5.43 [138]	3.60 [91]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	3.70 [94]	23.10 [10.48]
	DN100	PN40	6.20 [157]	3.60 [91]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	3.70 [94]	21.18 [9.60]
		PN63	6.20 [157]	3.60 [91]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	3.70 [94]	27.58 [12.51]
		PN100	6.20 [157]	3.60 [91]	0.12 [3.0]	-	0.97 [25]	1.30 [33]	3.70 [94]	32.44 [14.71]

©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
LIABILITY FOR THE DESIGN AND  
PERFORMANCE OF THE SEAL IN  
THIS DRAWING. THE USER MUST  
REFER TO THE ROSEMOUNT  
PRODUCT SPECIFICATIONS FOR  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SPECIFICATIONS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

3RD ANGLE  SIZE D SCALE NTS

**EMERSON**

TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

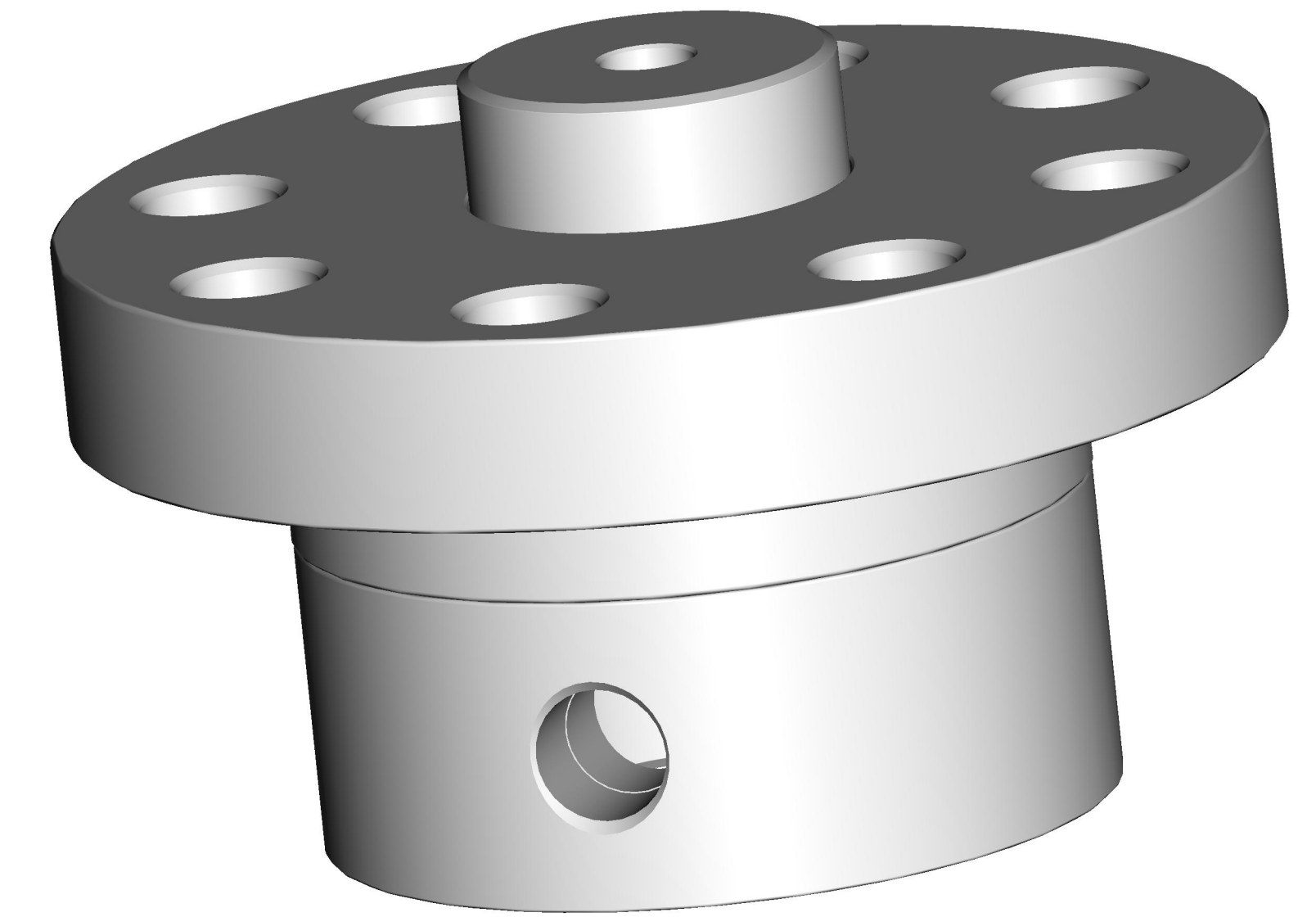
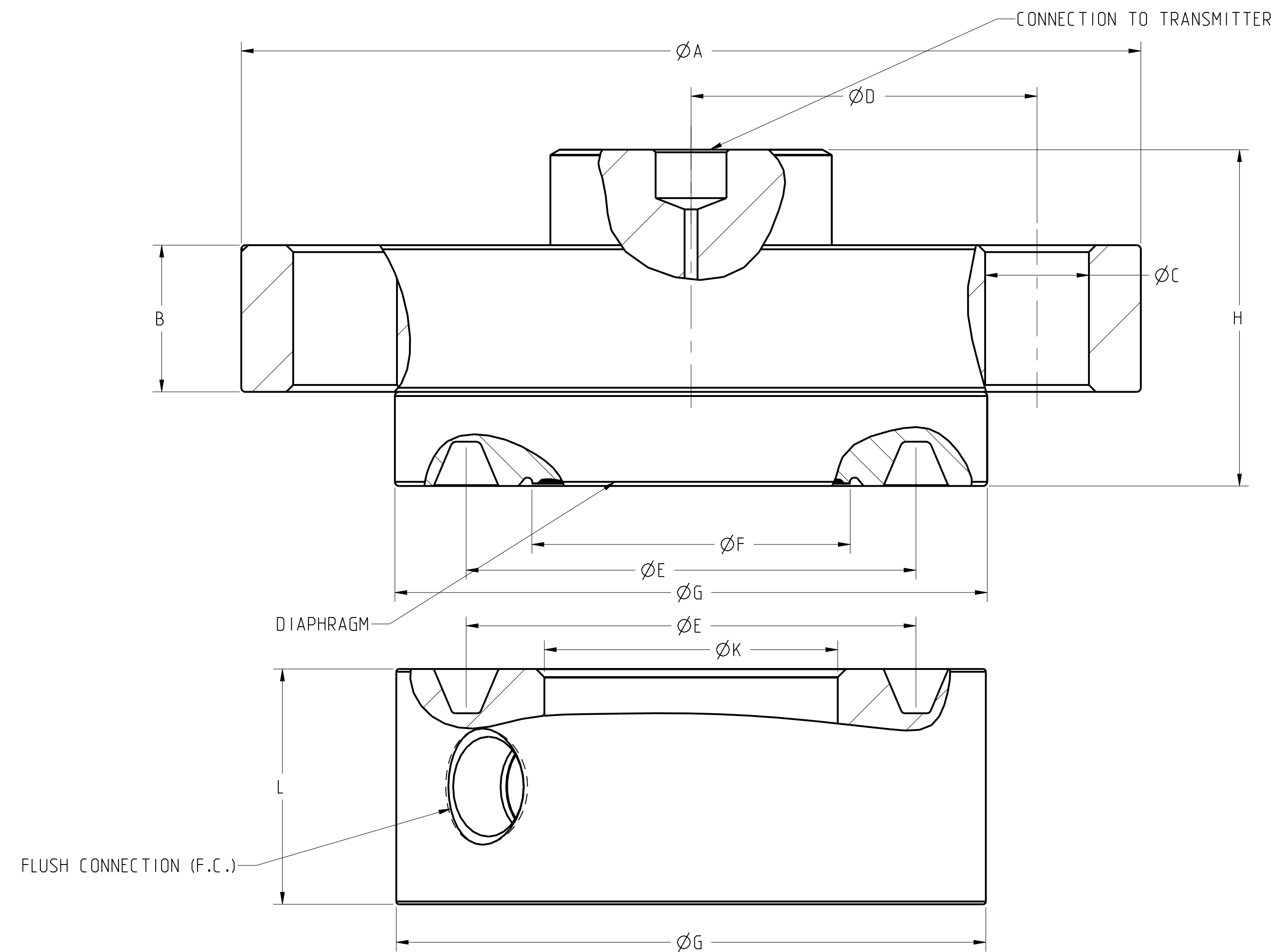
APP'D LI BAOGANG 4/18/22

CAD MAINTAINED (PRO/EI) SHEET 11 OF 19

FLUSH FLANGED SEAL-RTJ GASKET SURFACE (TWO-PIECE)

	PIPE SIZE	CLASS	FLANGE DIAMETER "A" in.(mm)	FLANGE THICKNESS "B" in.(mm)	BOLT HOLE DIAMETER "C" in.(mm)	BOLT CIRCLE "D" in.(mm)	RTJ DIAMETER "E" in.(mm)	DIAPHRAM DIAMETER "F" in.(mm)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150 lb.	6.00 [152]	0.69 [18]	0.75 [19]	4.75 [121]	3.25 [83]	2.30 [58]
		300 lb.	6.50 [165]	0.82 [21]	0.75 [19]	5.00 [127]	3.25 [83]	2.30 [58]
		600 lb.	6.50 [165]	1.00 [25]	0.75 [19]	5.00 [127]	3.25 [83]	2.30 [58]
		900 lb.	6.50 [165]	1.00 [25]	0.75 [19]	5.00 [127]	3.25 [83]	2.30 [58]
	3-in.	150 lb.	7.50 [191]	0.88 [22]	0.75 [19]	6.00 [152]	4.50 [114]	3.50 [89]
		300 lb.	8.25 [210]	1.06 [27]	0.88 [22]	6.62 [168]	4.88 [124]	3.50 [89]
		600 lb.	8.25 [210]	1.25 [32]	0.88 [22]	6.62 [168]	4.88 [124]	3.50 [89]
	900 lb.	9.50 [241]	1.50 [38]	1.00 [25]	7.50 [191]	4.88 [124]	3.50 [89]	

	PIPE SIZE	CLASS	RAISED FACE DIAMETER "G" in.(mm)	OVERALL HEIGHT "H" in.(mm)	RAISED FACE HEIGHT "J" in.(mm)	INNER DIAMETER "K" in.(mm)	THICKNESS WITH 1/2-NPT "L" in.(mm)	THICKNESS WITH 1/2-NPT F.C. "L" in.(mm)	WEIGHT lb. (Kg)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150 lb.	4.00 [102]	2.43 [62]	0.68 [17]	2.12 [54]	1.40 [36]	1.70 [43]	8.78 [3.95]
		300 lb.	4.25 [108]	2.43 [62]	0.68 [17]	2.12 [54]	1.40 [36]	1.70 [43]	10.56 [4.75]
		600 lb.	4.25 [108]	2.43 [62]	0.68 [17]	2.12 [54]	1.40 [36]	1.70 [43]	12.01 [5.40]
		900 lb.	4.88 [124]	2.57 [65]	0.82 [21]	2.12 [54]	1.40 [36]	1.70 [43]	21.24 [9.56]
	3-in.	150 lb.	5.25 [133]	2.43 [62]	0.68 [17]	3.60 [91]	1.50 [38]	1.80 [46]	16.04 [7.22]
		300 lb.	5.75 [146]	2.43 [62]	0.68 [17]	3.60 [91]	1.50 [38]	1.80 [46]	20.72 [9.32]
		600 lb.	5.75 [146]	2.43 [62]	0.68 [17]	3.60 [91]	1.50 [38]	1.80 [46]	23.19 [10.44]
		900 lb.	6.12 [155]	2.57 [65]	0.82 [21]	3.60 [91]	1.50 [38]	1.80 [46]	35.56 [16.00]



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
LIABILITY FOR THE DESIGN AND  
CONSTRUCTION OF THIS PRODUCT  
IN ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500  
APP'D L1 BAOGANG 4/18/22  
CAD MAINTAINED. (PRO/E)

EMERSON

TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

3RD ANGLE

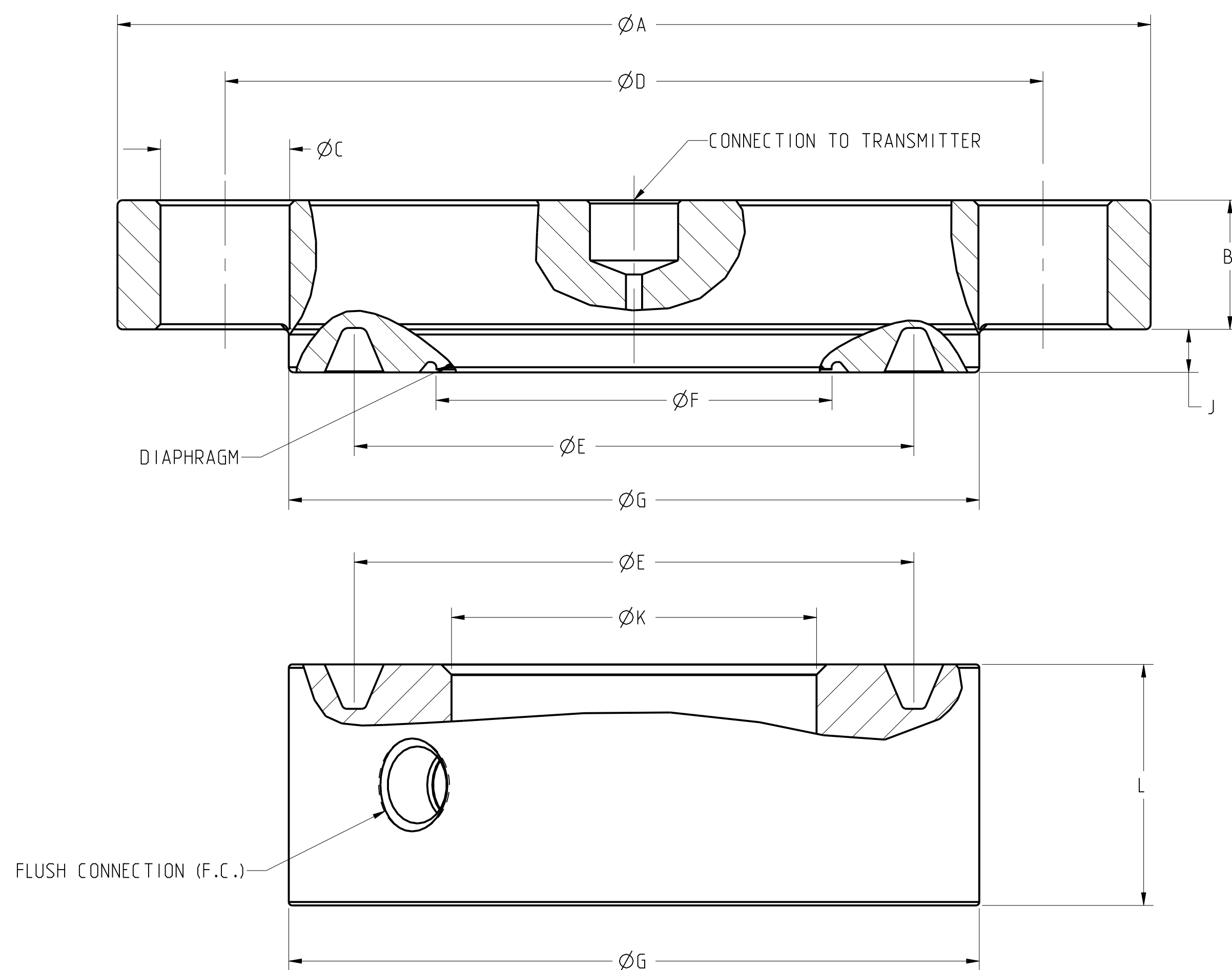
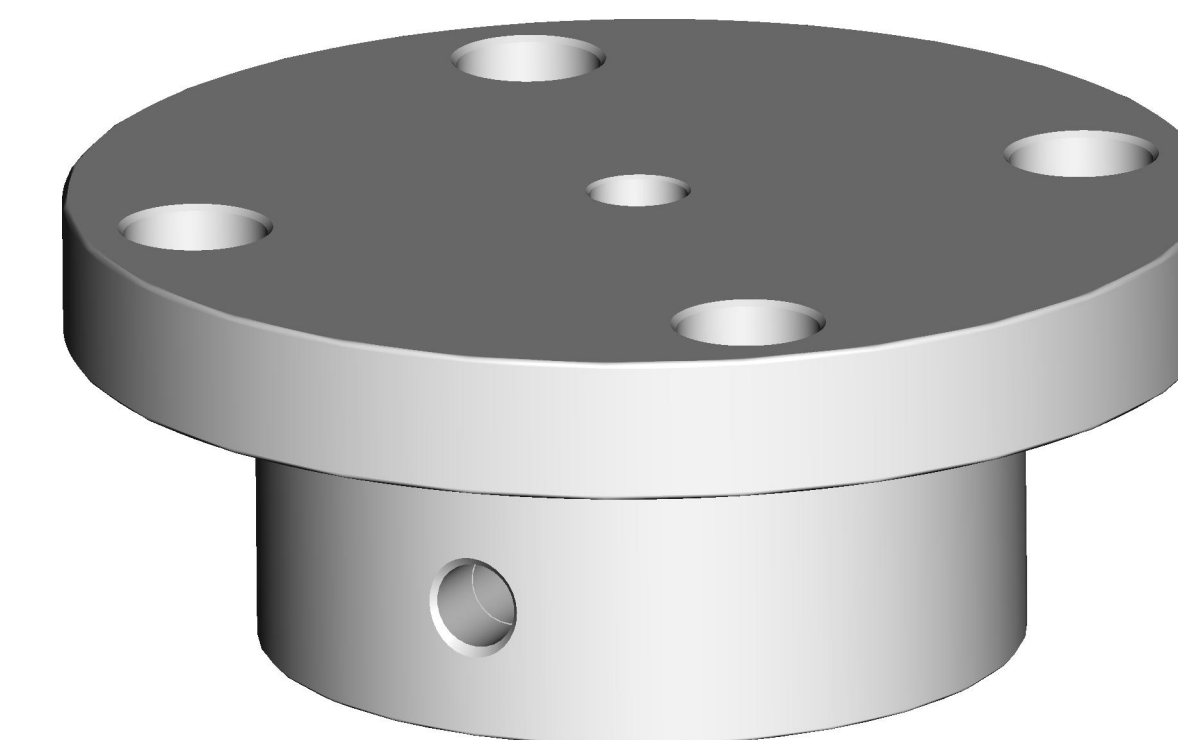
SIZE D SCALE NTS

SHEET 12 OF 19

**FLUSH FLANGED SEAL-RTJ GASKET SURFACE (ONE-PIECE)**

	PIPE SIZE	CLASS	FLANGE DIAMETER "A" in.(mm)	FLANGE THICKNESS "B" in.(mm)	BOLT HOLE DIAMETER "C" in.(mm)	BOLT CIRCLE "D" in.(mm)	RTJ DIAMETER "E" in.(mm)	DIAPHRAM DIAMETER "F" in.(mm)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150 lb.	6.00 [152]	0.69 [18]	0.75 [19]	4.75 [121]	3.25 [83]	2.30 [58]
		300 lb.	6.50 [165]	0.82 [21]	0.75 [19]	5.00 [127]	3.25 [83]	2.30 [58]
		600 lb.	6.50 [165]	1.00 [25]	0.75 [19]	5.00 [127]	3.25 [83]	2.30 [58]
		900 lb.	8.50 [216]	1.50 [38]	1.00 [25]	6.50 [165]	3.25 [83]	2.30 [58]
	3-in.	150 lb.	7.50 [191]	0.88 [22]	0.75 [19]	6.00 [152]	4.50 [114]	3.50 [89]
		300 lb.	8.25 [210]	1.06 [27]	0.88 [22]	6.62 [168]	4.88 [124]	3.50 [89]
		600 lb.	8.25 [210]	1.25 [32]	0.88 [22]	6.62 [168]	4.88 [124]	3.50 [89]
	900 lb.	9.50 [241]	1.50 [38]	1.00 [25]	7.50 [191]	4.88 [124]	3.50 [89]	

	PIPE SIZE	CLASS	RAISED FACE DIAMETER "G" in.(mm)	RAISED FACE HEIGHT "J" in.(mm)	INNER DIAMETER "K" in.(mm)	THICKNESS WITH 1/2-NPT "L" in.(mm)	WEIGHT lb. (Kg)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150 lb.	4.00 [102]	0.25 [6.4]	2.12 [54]	1.70 [43]	9.43 [4.27]
		300 lb.	4.25 [108]	0.31 [7.9]	2.12 [54]	1.70 [43]	11.69 [5.31]
		600 lb.	4.25 [108]	0.31 [7.9]	2.12 [54]	1.70 [43]	13.31 [6.03]
		900 lb.	4.88 [124]	0.31 [7.9]	2.12 [54]	1.70 [43]	15.03 [6.82]
	3-in.	150 lb.	5.25 [133]	0.25 [6.4]	3.60 [91]	1.80 [46]	16.78 [7.61]
		300 lb.	5.75 [146]	0.31 [7.9]	3.60 [91]	1.80 [46]	22.85 [10.37]
		600 lb.	5.75 [146]	0.31 [7.9]	3.60 [91]	1.80 [46]	25.47 [11.56]
		900 lb.	6.12 [155]	0.31 [7.9]	3.60 [91]	1.80 [46]	37.74 [17.12]



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INCORPORATES  
THIS INFORMATION IN  
ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500  
APP'D LI BAOGANG 4/18/22  
CAD MAINTAINED (PRO/E) SHEET 13 OF 19

3RD ANGLE

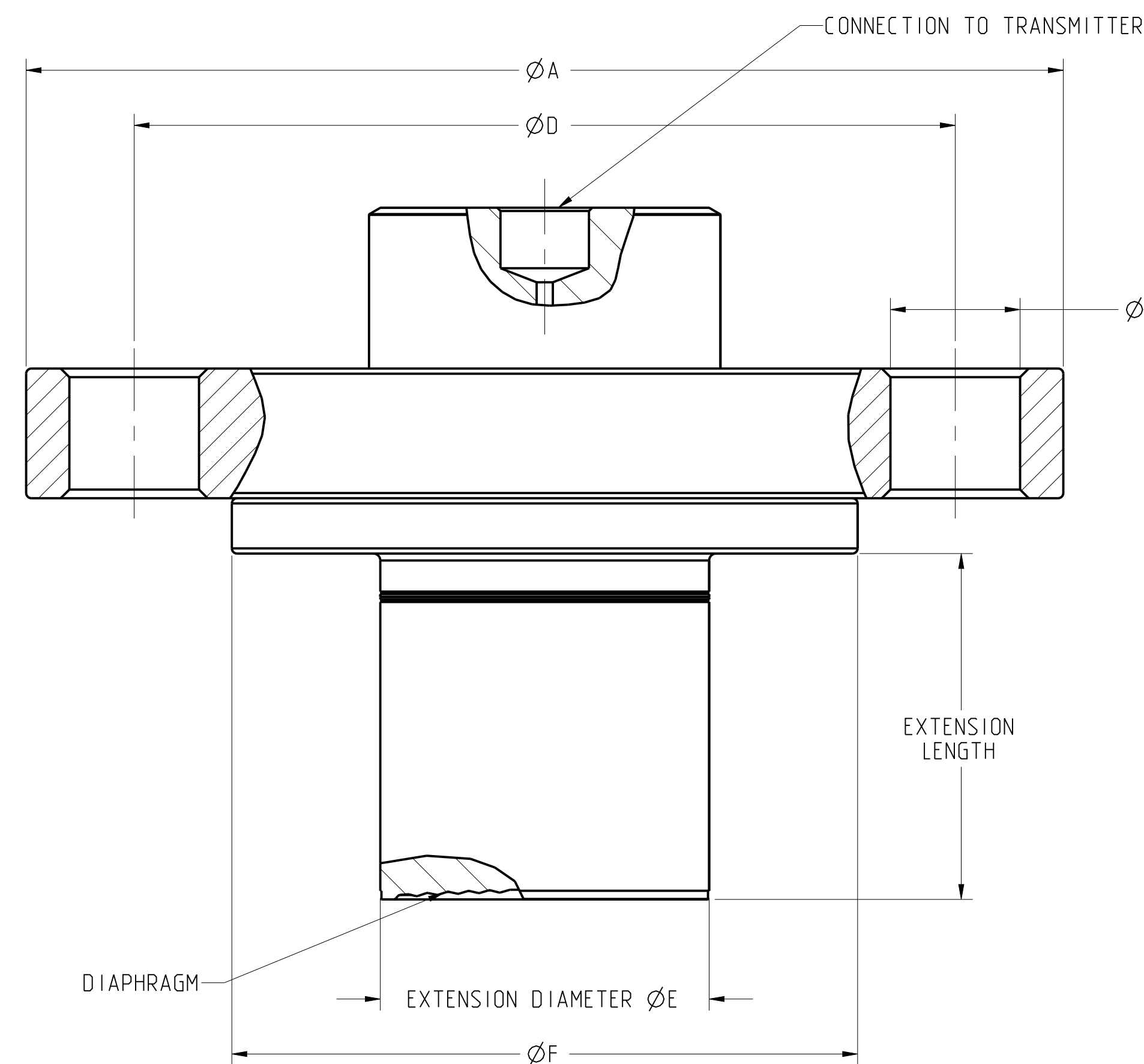
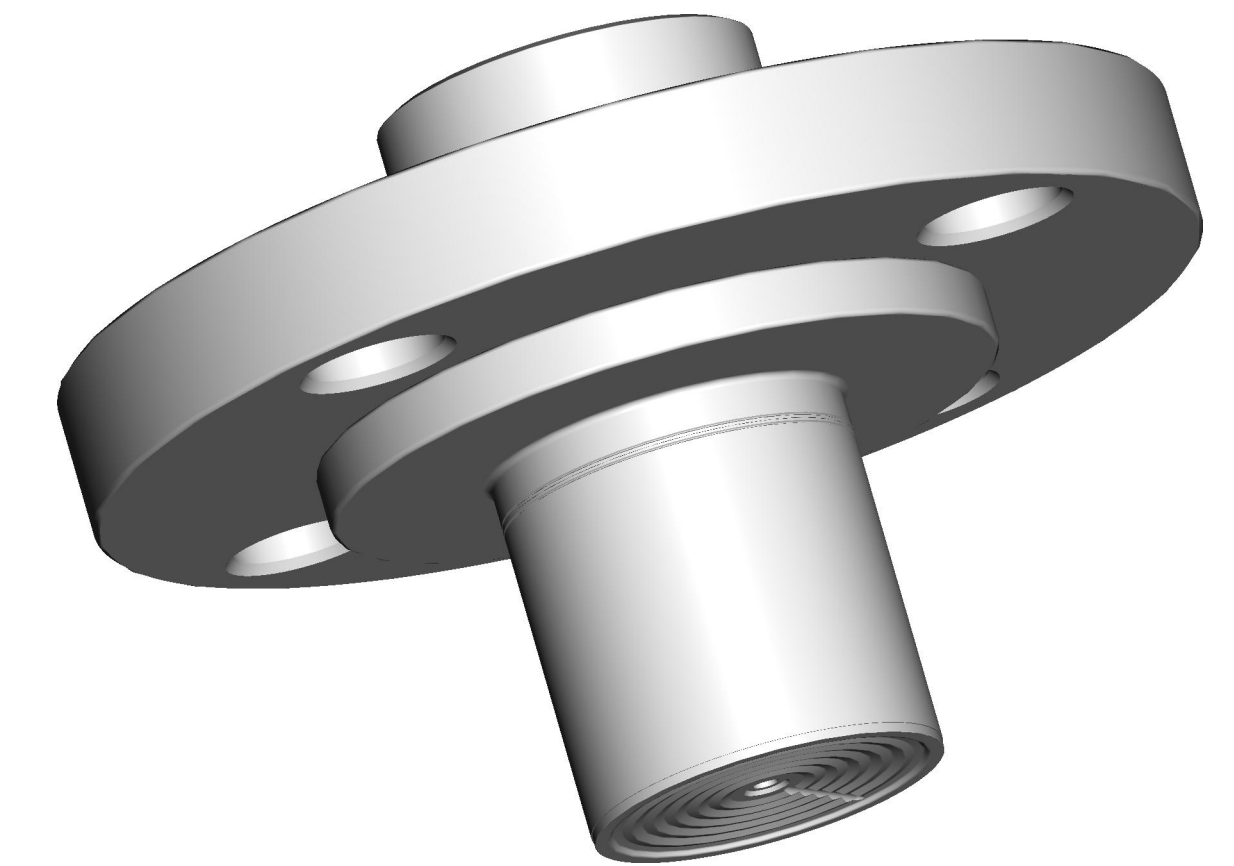
EMERSON

TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

SIZE D SCALE NTS

EXTENDED FLANGED SEAL

	PIPE SIZE	CLASS	DIAMETER "A" in.(mm)	THICKNESS "B" in.(mm)	DIAMETER "C" in.(mm)	BOLT CIRCLE DIAMETER "D" in.(mm)	# OF BOLTS	DIAMETER "E" in.(mm)	DIAMETER "F" in.(mm)	WEIGHT - 2IN EXTENSION lb. (Kg)	WEIGHT - 4IN EXTENSION lb. (Kg)	WEIGHT - 6IN EXTENSION lb. (Kg)	WEIGHT - 8IN EXTENSION lb. (Kg)
ANSI B16.5/ ASME B1.20.1/ HG20615	1-1/2-in.	150 lb.	5.00 [127]	0.62 [16]	0.63 [16]	3.88 [99]	4	1.45 [37]	2.88 [73]	5.99 [2.70]	6.92 [3.11]	7.85 [3.53]	8.78 [3.95]
		300 lb.	6.12 [155]	0.75 [19]	0.88 [22]	4.50 [114]	4	1.45 [37]	2.88 [73]	8.57 [3.86]	9.50 [4.28]	10.43 [4.69]	11.36 [5.11]
		600 lb.	6.12 [155]	0.88 [22]	0.88 [22]	4.50 [114]	4	1.45 [37]	2.88 [73]	9.46 [4.56]	10.39 [4.68]	11.32 [5.09]	12.25 [5.51]
		900 lb.	7.00 [178]	1.25 [32]	1.13 [29]	4.88 [124]	4	1.45 [37]	2.88 [73]	15.66 [7.05]	16.59 [7.47]	17.51 [7.88]	18.44 [8.30]
	2-in.	150 lb.	6.00 [152]	0.69 [18]	0.75 [19]	4.75 [121]	4	1.90 [48]	3.62 [92]	8.80 [3.96]	10.00 [4.50]	11.19 [5.04]	12.38 [5.57]
		300 lb.	6.50 [165]	0.81 [21]	0.75 [19]	5.00 [127]	8	1.90 [48]	3.62 [92]	10.39 [4.68]	11.60 [5.22]	12.79 [5.76]	13.98 [6.29]
		600 lb.	6.50 [165]	1.00 [25]	0.75 [19]	5.00 [127]	8	1.90 [48]	3.62 [92]	11.84 [5.33]	13.05 [5.87]	14.23 [6.40]	15.42 [6.94]
		900 lb.	8.50 [216]	1.50 [38]	1.00 [25]	6.50 [165]	8	1.90 [48]	3.62 [92]	26.31 [11.84]	27.92 [12.56]	29.54 [13.29]	31.15 [14.02]
	3-in.	150 lb.	7.50 [191]	0.88 [22]	0.75 [19]	6.00 [152]	4	2.58 [66]	5.00 [127]	17.64 [7.94]	21.27 [9.57]	24.88 [11.20]	28.50 [12.83]
		300 lb.	8.25 [210]	1.06 [27]	0.88 [22]	6.62 [168]	8	2.58 [66]	5.00 [127]	21.69 [9.76]	25.32 [11.39]	28.93 [13.02]	32.54 [14.64]
		600 lb.	8.25 [210]	1.25 [32]	0.88 [22]	6.62 [168]	8	2.58 [66]	5.00 [127]	24.48 [10.88]	27.81 [12.51]	31.42 [14.14]	35.03 [15.76]
		900 lb.	9.50 [241]	1.50 [38]	1.00 [25]	7.50 [191]	8	2.58 [66]	5.00 [127]	35.10 [15.80]	38.71 [17.42]	42.32 [19.04]	45.93 [20.67]
4-in.	150 lb.	9.00 [229]	0.88 [22]	0.75 [19]	7.50 [191]	8	3.50 [89]	6.20 [157]	39.17 [17.63]	60.07 [27.03]	80.94 [36.42]	101.88 [45.85]	
	300 lb.	10.00 [254]	1.19 [30]	0.88 [22]	7.88 [200]	8	3.50 [89]	6.20 [157]	49.18 [22.13]	70.08 [31.54]	90.96 [40.93]	111.89 [50.35]	
	600 lb.	10.75 [273]	1.50 [38]	1.00 [25]	8.50 [216]	8	3.50 [89]	6.20 [157]	58.93 [26.52]	79.83 [35.92]	100.70 [45.32]	121.64 [54.74]	
	900 lb.	11.50 [292]	1.75 [44]	1.25 [32]	9.25 [235]	8	3.50 [89]	6.20 [157]	58.50 [26.33]	64.96 [29.23]	70.34 [31.65]	76.38 [34.37]	
EN1092-1/ HG20592/ GOST33259-15	DN40	PN40	5.91 [150]	0.71 [18]	0.71 [18]	4.33 [110]	4	1.45 [37]	3.46 [88]	7.92 [3.56]	8.85 [3.98]	9.77 [4.40]	10.70 [4.82]
		PN63	6.69 [170]	1.02 [26]	0.87 [22]	4.92 [125]	4	1.45 [37]	3.46 [88]	11.98 [5.39]	12.91 [5.81]	13.84 [6.23]	14.76 [6.64]
		PN100	6.69 [170]	1.02 [26]	0.87 [22]	4.92 [125]	4	1.45 [37]	3.46 [88]	11.98 [5.39]	12.91 [5.81]	13.84 [6.23]	14.76 [6.64]
	DN50	PN40	6.50 [165]	0.79 [20]	0.71 [18]	4.92 [125]	4	1.90 [48]	4.02 [102]	10.45 [4.70]	11.66 [5.25]	12.84 [5.78]	14.03 [6.31]
		PN63	7.09 [180]	1.02 [26]	0.87 [22]	5.31 [135]	4	1.90 [48]	4.02 [102]	13.96 [6.28]	15.16 [6.82]	16.35 [7.36]	17.54 [7.89]
		PN100	7.68 [195]	1.10 [28]	1.02 [26]	5.71 [145]	4	1.90 [48]	4.02 [102]	16.63 [7.48]	17.83 [8.02]	19.02 [8.56]	20.21 [9.09]
	DN80	PN40	7.87 [200]	0.94 [24]	0.71 [18]	6.30 [160]	8	2.58 [66]	5.43 [138]	18.47 [8.31]	21.70 [9.77]	24.94 [11.22]	28.18 [12.68]
		PN63	8.46 [215]	1.10 [28]	0.87 [22]	6.69 [170]	8	2.58 [66]	5.43 [138]	22.32 [10.04]	25.55 [11.50]	28.79 [12.96]	32.03 [14.41]
		PN100	9.06 [230]	1.26 [32]	1.02 [26]	7.09 [180]	8	2.58 [66]	5.43 [138]	26.90 [12.11]	30.13 [13.56]	33.37 [15.02]	36.61 [16.47]



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
THIS DRAWING AS THE BASIS FOR  
THIS AGREEMENT WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

EMERSON

TITLE  
ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

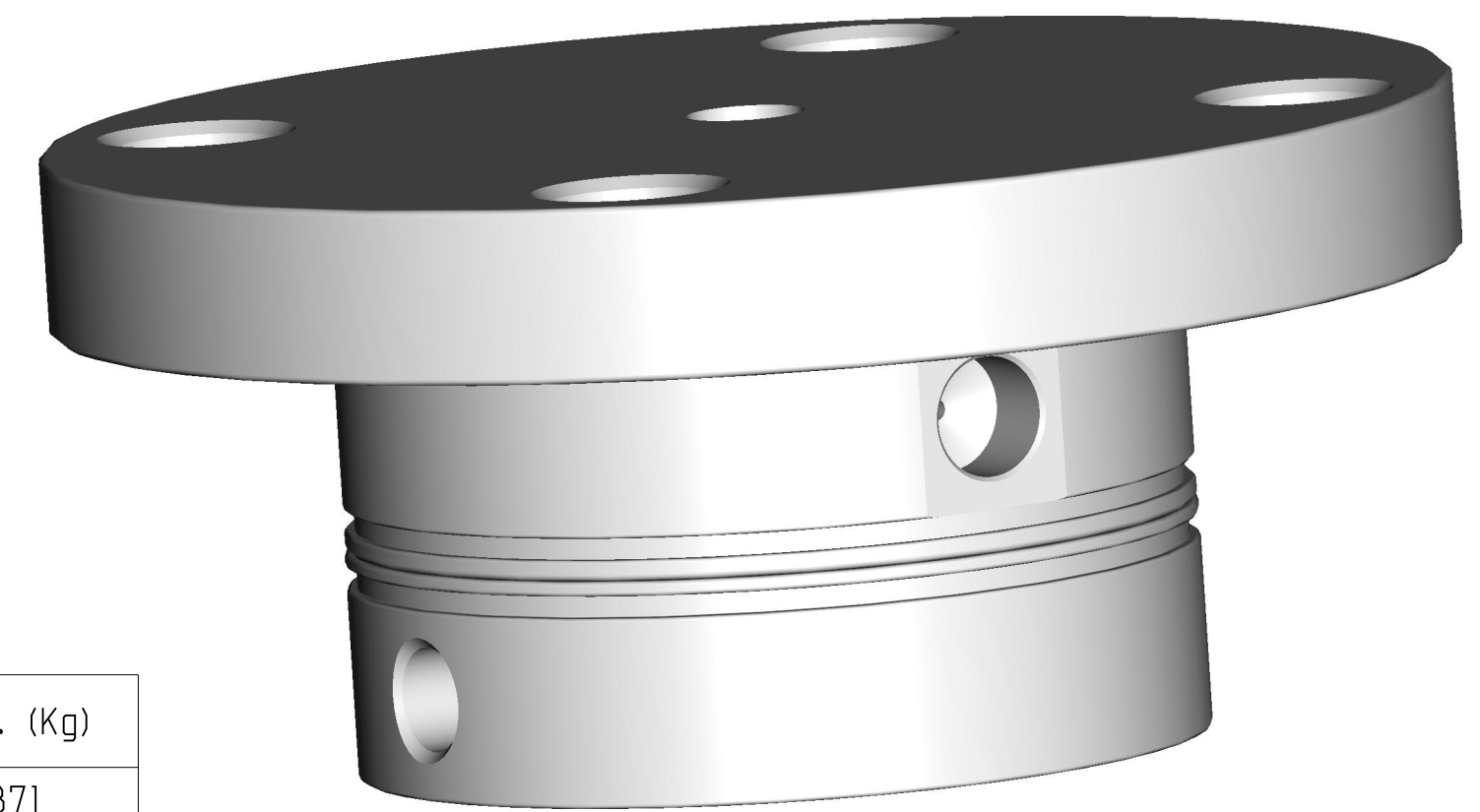
DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D LI BAOGANG 4/18/22

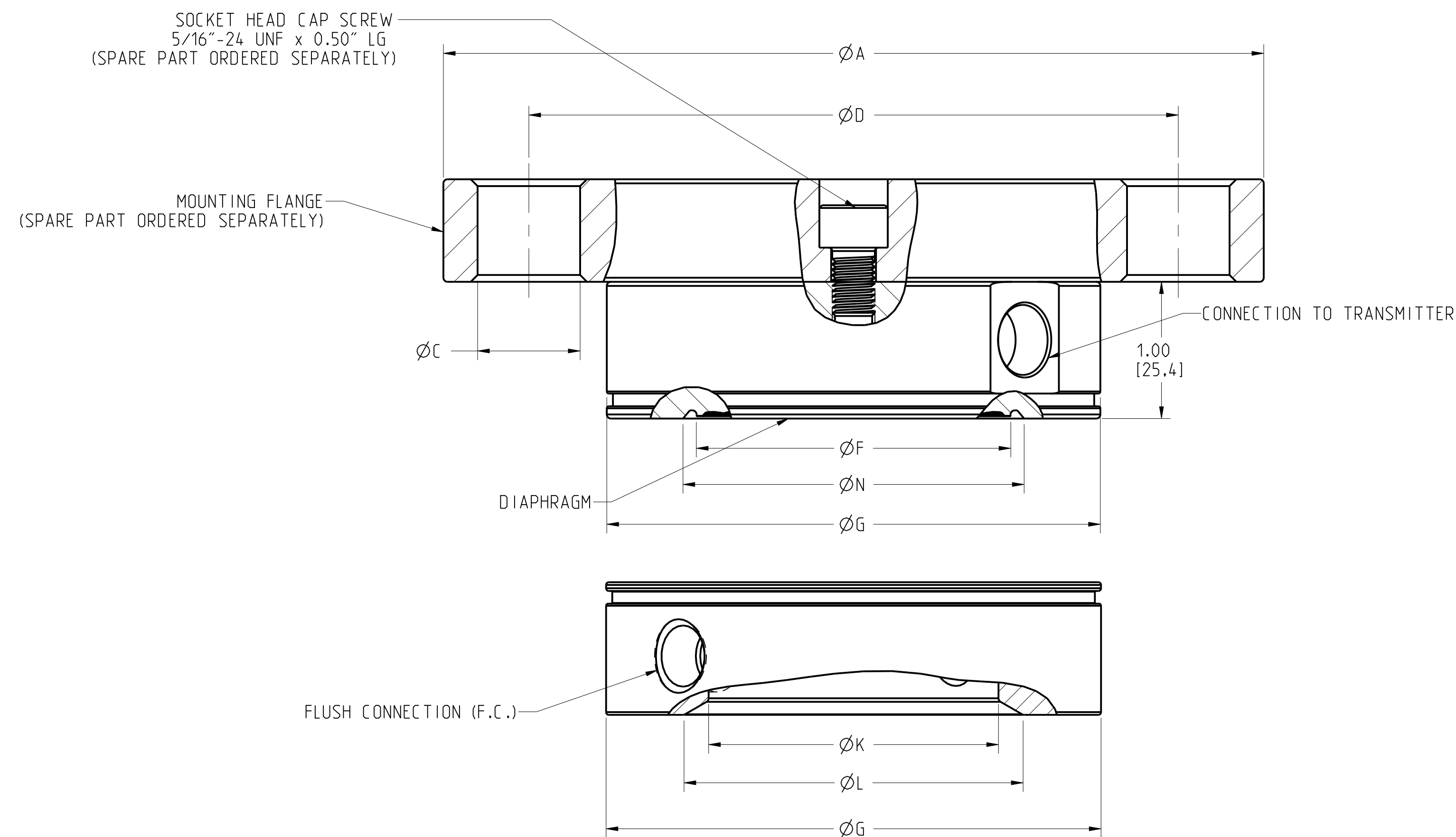
CAD MAINTAINED. (PRO/EI) SHEET 14 OF 19

**PANCAKE SEAL**

	PIPE SIZE	CLASS	FLANGE DIAMETER "A" in.(mm)	FLANGE THICKNESS "B" in.(mm)	BOLT HOLE DIAMETER "C" in.(mm)	BOLT CIRCLE DIAMETER "D" in.(mm)	# OF BOLTS	STANDARD DIAPHRAGM DIAMETER "F" in.(mm)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150lb.	6.00 [152]	0.69 [18]	0.75 [19]	4.75 [121]	4	2.30 [58]
		300lb.	6.50 [165]	0.81 [21]	0.75 [19]	5.00 [127]	8	2.30 [58]
		600lb.	6.50 [165]	1.00 [25]	0.75 [19]	5.00 [127]	8	2.30 [58]
		900lb.	8.50 [216]	1.50 [38]	1.00 [25]	6.50 [165]	8	2.30 [58]
	3-in.	150lb.	7.50 [191]	0.88 [22]	0.75 [19]	6.00 [152]	4	3.50 [89]
		300lb.	8.25 [210]	1.06 [27]	0.88 [22]	6.62 [168]	8	3.50 [89]
		600lb.	8.25 [210]	1.25 [32]	0.88 [22]	6.62 [168]	8	3.50 [89]
		900lb.	9.50 [241]	1.50 [38]	1.00 [25]	7.50 [191]	8	3.50 [89]
EN1092-1/ HG20592/ GOST33259-15	DN50	PN40	6.5 [165]	0.79 [20]	0.71 [18]	4.92 [125]	4	2.30 [58]
		PN63	7.09 [180]	1.02 [26]	0.87 [22]	5.31 [135]	4	2.30 [58]
		PN100	7.68 [195]	1.10 [28]	1.02 [26]	5.71 [145]	4	2.30 [58]
	DN80	PN40	7.87 [200]	0.94 [24]	0.71 [18]	6.30 [160]	8	3.50 [89]
		PN63	8.46 [215]	1.10 [28]	0.87 [22]	6.69 [170]	8	3.50 [89]
		PN100	9.06 [230]	1.26 [32]	1.02 [26]	7.09 [180]	8	3.50 [89]



	PIPE SIZE	CLASS	OUTER DIAMETER "G" in.(mm)	INNER DIAMETER "K" in.(mm)	BEVELED DIAMETER "L" in.(mm)	THICKNESS WITH 1/4-NPT F.C. "M" in.(mm)	THICKNESS WITH 1/2-NPT F.C. "M" in.(mm)	MINIMUM GASKET I.D. "N" in.(mm)	WEIGHT lb. (Kg)
ANSI B16.5/ ASME B1.20.1/ HG20615	2-in.	150lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	8.61 [3.87]
		300lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	10.20 [4.59]
		600lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	11.65 [5.24]
		900lb.	3.62 [92]	2.12 [54]	2.48 [63]	0.97 [25]	1.30 [33]	2.50 [63]	24.84 [11.18]
	3-in.	150lb.	5.00 [127]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [94]	16.83 [7.57]
		300lb.	5.00 [127]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [94]	20.88 [9.40]
		600lb.	5.00 [127]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [94]	23.35 [10.51]
		900lb.	5.00 [127]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [94]	33.83 [15.22]
EN1092-1/ HG20592/ GOST33259-15	DN50	PN40	4.02 [102]	2.40 [61]	2.40 [61]	0.97 [25]	1.30 [33]	2.50 [63]	10.67 [4.80]
		PN63	4.02 [102]	2.40 [61]	2.40 [61]	0.97 [25]	1.30 [33]	2.50 [63]	14.24 [6.41]
		PN100	4.02 [102]	2.40 [61]	2.40 [61]	0.97 [25]	1.30 [33]	2.50 [63]	16.89 [7.60]
	DN80	PN40	5.43 [138]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [63]	18.76 [8.44]
		PN63	5.43 [138]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [63]	22.60 [10.17]
		PN100	5.43 [138]	3.60 [91]	3.60 [91]	0.97 [25]	1.30 [33]	3.70 [63]	27.07 [12.18]



©2015 ROSEMOUNT INC. ROSEMOUNT INC. ACCEPTS THIS DRAWING AS IS IN ACCORDANCE WITH ROSEMOUNT ENGINEERING SPECIFICATIONS. UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT PRODUCT SHEETS FOR PRODUCT SPECIFICATIONS. CLICK HERE

3RD ANGLE

**EMERSON**

TITLE ROSEMOUNT 1299 SEALS TYPE I DRAWING

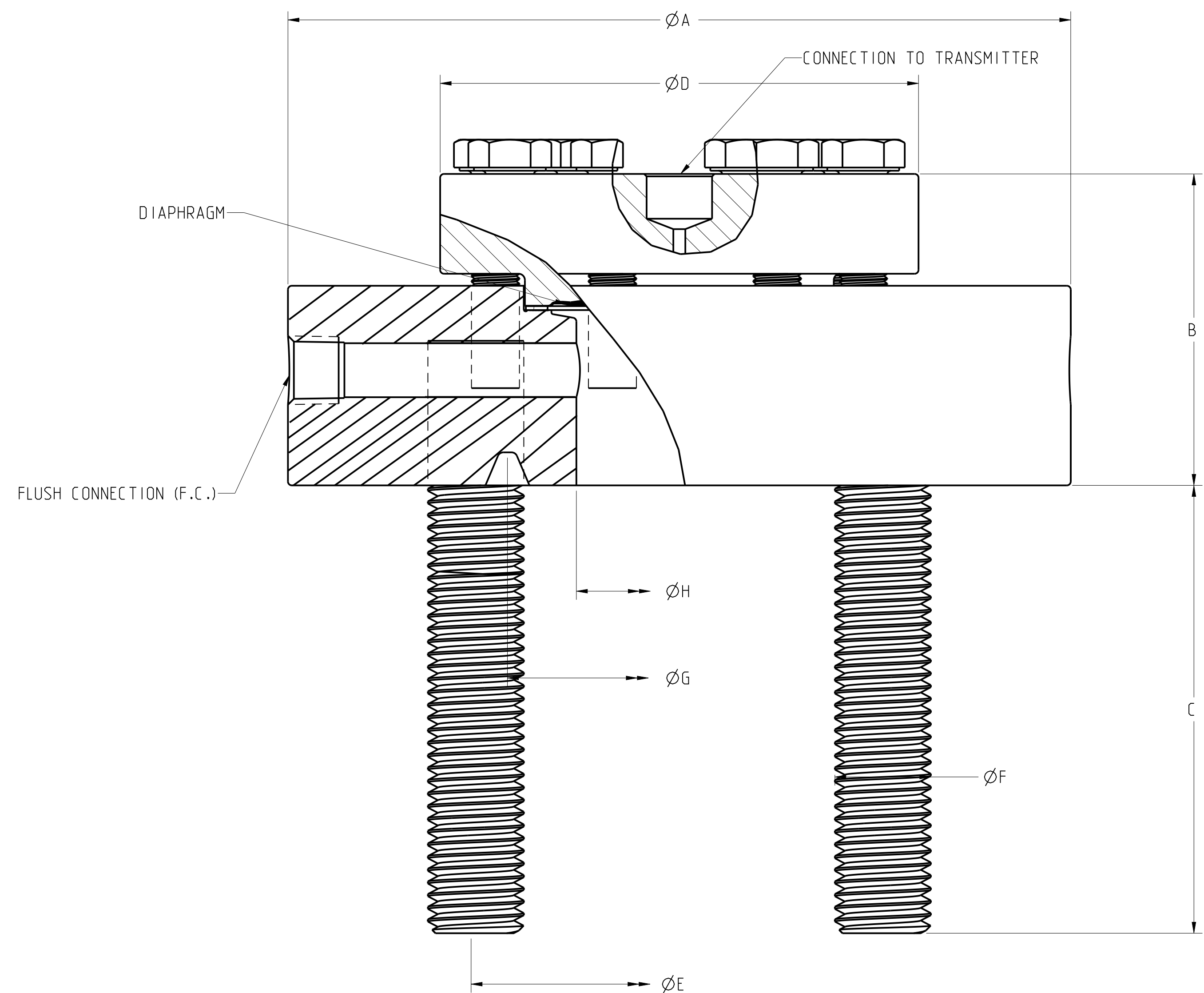
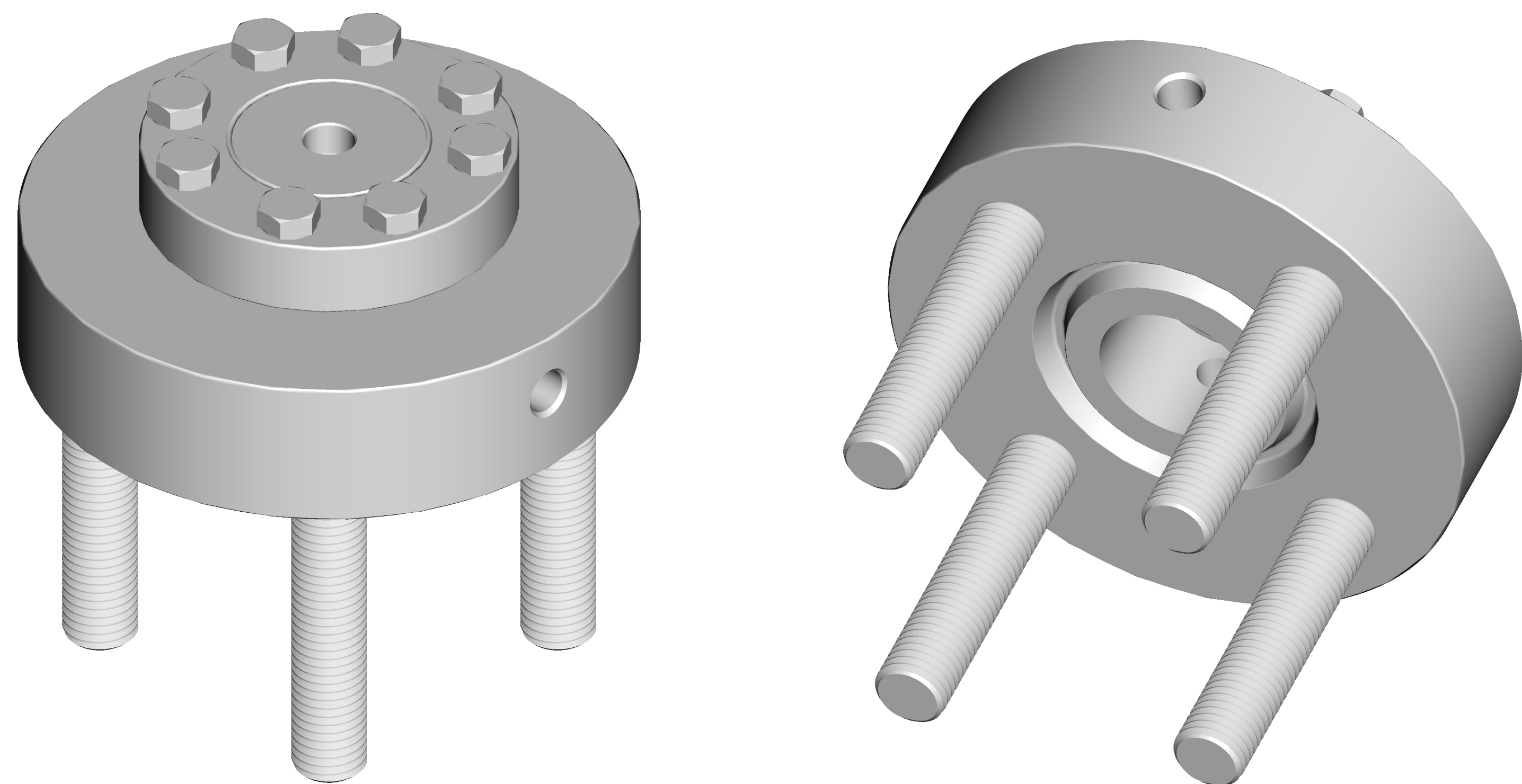
DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D LI BAOGANG 4/18/22

CAD MAINTAINED. (PRO/E) SHEET 15 OF 19

**REMOTE FLANGED SEAL-RTJ GASKET SURFACE**

ANSI PIPE SIZE	ANSI CLASS	LOWER DIAMETER Ø "A" in.(mm)	OVERALL HEIGHT "B" in.(mm)	PROTRUDING STUD LENGTH "C" in.(mm)	UPPER DIAMETER Ø "D" in.(mm)	STUD BOLT CIRCLE Ø "E" in.(mm)	STUD SIZE Ø "F" in.(mm)	RTJ GROOVE PITCH DIAMETER Ø "G" in.(mm)	PROCESS HOLE DIAMETER Ø "H" in.(mm)	WEIGHT lb(kg)
1/2"	300 lb./600 lb.	3.75 [95]	2.18 [55]	1.75 [44]	3.74 [90]	2.62 [67]	0.5 [13]	1.344 [34]	0.62 [16]	6.58 [2.96]
1/2"	900 lb.	4.75 [121]	2.74 [70]	2.87 [73]	4.00 [102]	3.25 [83]	0.75 [19]	1.562 [40]	0.62 [16]	9.75 [4.39]
3/4"	300 lb./600 lb.	5.12 [130]	2.21 [56]	2.06 [52]	3.74 [95]	3.25 [83]	0.63 [16]	1.688 [43]	0.82 [21]	5.22 [2.35]
3/4"	900 lb.	4.62 [117]	2.74 [70]	2.87 [73]	4.00 [102]	3.50 [89]	0.75 [19]	1.750 [44]	0.82 [21]	7.46 [3.36]
1"	150 lb.	4.25 [108]	2.13 [54]	1.75 [44]	3.74 [95]	3.12 [79]	0.50 [13]	1.875 [48]	1.05 [27]	4.38 [1.97]
1"	300 lb./600 lb.	4.88 [124]	2.21 [56]	2.06 [52]	3.74 [95]	3.50 [89]	0.63 [16]	2.000 [51]	1.05 [27]	5.67 [2.55]
1"	900 lb.	5.88 [149]	2.74 [70]	3.18 [81]	4.00 [102]	4.00 [102]	0.88 [22]	2.000 [51]	1.05 [27]	10.15 [4.57]
1-1/2"	150 lb.	5.00 [127]	2.43 [62]	1.75 [44]	3.74 [95]	3.88 [99]	0.50 [13]	2.562 [65]	1.61 [41]	6.78 [3.05]
1-1/2"	300 lb./600 lb.	6.12 [155]	2.43 [62]	2.87 [73]	3.74 [95]	4.50 [114]	0.75 [19]	2.688 [68]	1.61 [41]	10.01 [4.50]
1-1/2"	900 lb.	7.00 [178]	3.00 [76]	3.00 [76]	4.00 [102]	4.88 [124]	1.00 [25]	2.688 [68]	1.61 [41]	16.43 [7.39]



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
LIABILITY FOR THE  
PRODUCTS SHOWN. FOR  
PRODUCT SPECIFICATIONS,  
CLICK HERE.

REFERENCE ROSEMOUNT  
PRODUCT SPECIFICATIONS  
FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE.

UNIT NOTES IN INCHES (mm).

3RD ANGLE

EMERSON

TITLE  
**ROSEMOUNT 1299 SEALS  
TYPE I DRAWING**

DR. Z.EDSON 2/9/21 DRAWING NO.  
APP'D LI BAOGANG 4/18/22

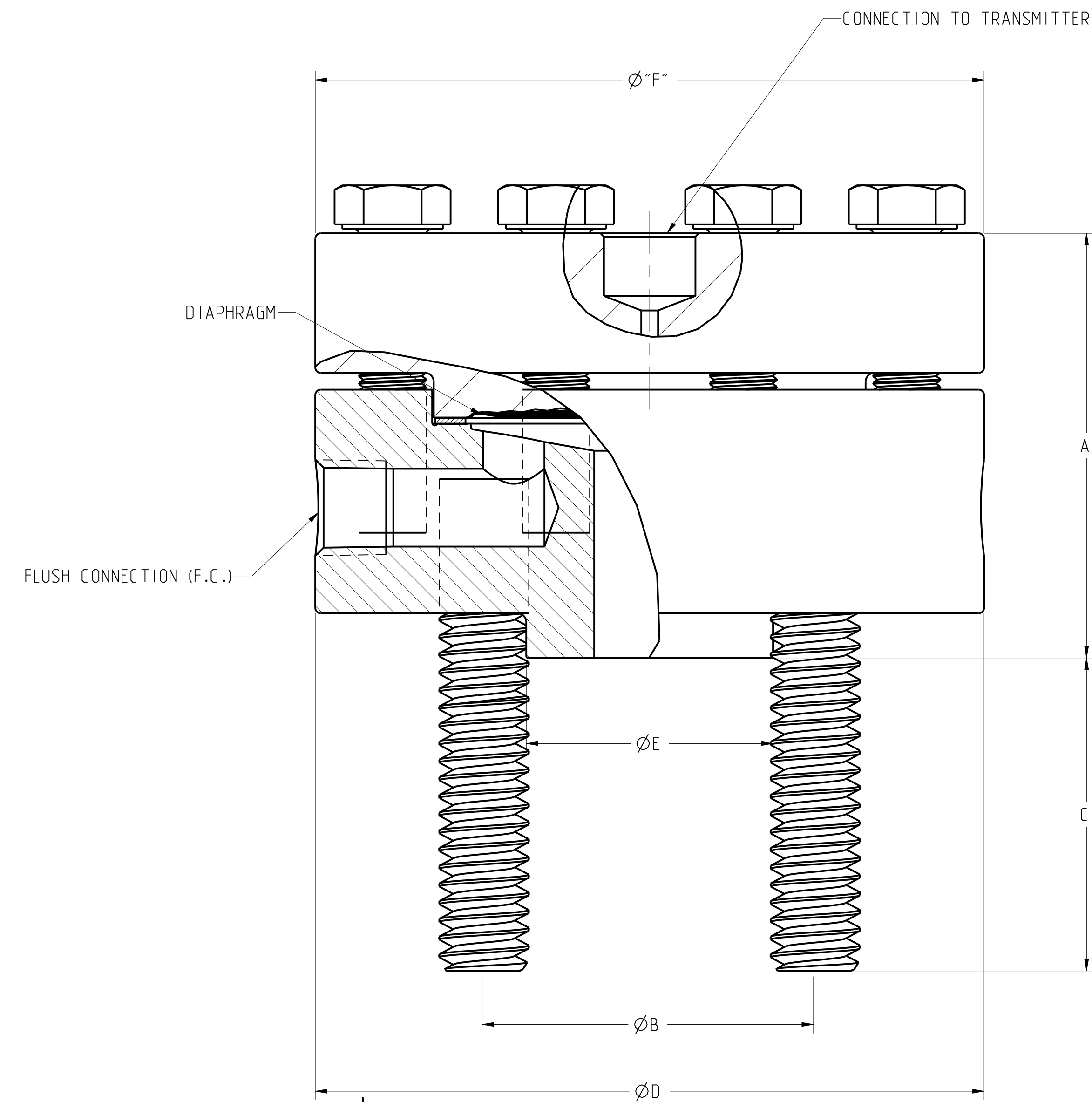
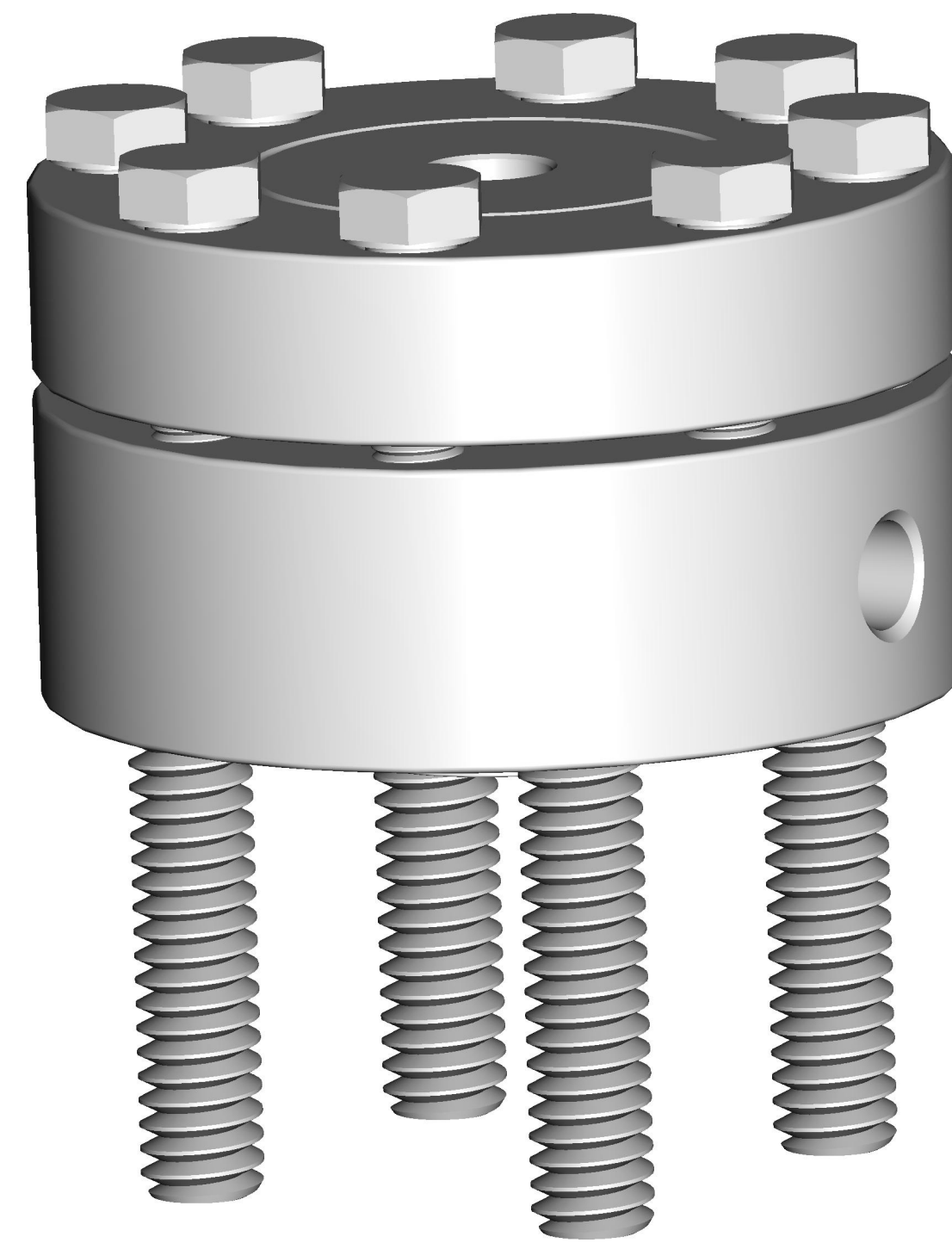
01299-9500

CAD MAINTAINED. (PRO/EI) SHEET 16 OF 19



**REMOTE FLANGED SEAL  
STUD BOLTED DESIGN (SD)**

ANSI Pipe Size	ANSI Class	OVERALL HEIGHT "A" in. (mm)	STUD CIRCLE DIAMETER Ø "B" in. (mm)	STUD (PROTRUDING LENGTH) "C" in. (mm)	LOWER HOUSING DIAMETER Ø "D" in. (mm)	RAISED FACE DIAMETER Ø "E" in. (mm)	UPPER DIAMETER Ø "F" in. (mm)	WEIGHT lbs. (kg.)
1/2"	150 lb.	2.07 [53]	2.38 [60]	1.44 [37]	3.74 [95]	1.38 [35]	3.74 [95]	6.28 [2.83]
1/2"	300 lb.	2.17 [55]	2.62 [67]	1.50 [38]	3.74 [95]	1.38 [35]	3.74 [95]	6.53 [2.94]
1/2"	600 lb.	2.27 [58]	2.62 [67]	1.75 [44]	3.74 [95]	1.38 [35]	3.74 [95]	6.53 [2.94]
1/2"	900 lb.	2.79 [71]	3.25 [83]	2.55 [65]	4.74 [120]	1.38 [35]	4.00 [102]	9.52 [4.28]
3/4"	150 lb.	2.07 [53]	2.75 [70]	1.44 [37]	3.88 [99]	1.69 [43]	3.74 [95]	6.46 [2.91]
DN10	PN40	2.07 [53]	2.36 [60]	1.49 [38]	3.74 [95]	1.57 [40]	3.74 [95]	6.12 [2.78]
DN10	PN63/PN100	2.07 [53]	2.76 [70]	1.49 [38]	3.74 [95]	1.57 [40]	3.74 [95]	6.50 [2.95]
DN15	PN40	2.07 [53]	2.56 [65]	1.49 [38]	3.7 [95]	1.77 [45]	3.74 [95]	6.27 [2.82]
DN15	PN63/PN100	2.07 [53]	2.95 [75]	1.68 [43]	4.13 [105]	1.77 [45]	3.74 [95]	6.92 [3.11]
DN20	PN40	2.07 [53]	2.95 [75]	1.49 [38]	4.13 [105]	2.28 [58]	3.74 [95]	6.90 [3.11]



©2015 ROSEMOUNT, INC.  
ROSEMOUNT INC. ACCEPTS  
LIABILITY FOR THE DESIGN OF  
THIS PRODUCT AND SHALL BE  
RESPONSIBLE FOR THE DESIGN  
IN ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SPECIFICATIONS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

DR. Z. EDSON 2/9/21 DRAWING NO. 01299-9500  
APP'D L1 BAOGANG 4/18/22  
CAD MAINTAINED (PRO/E) SHEET 17 OF 19

3RD ANGLE

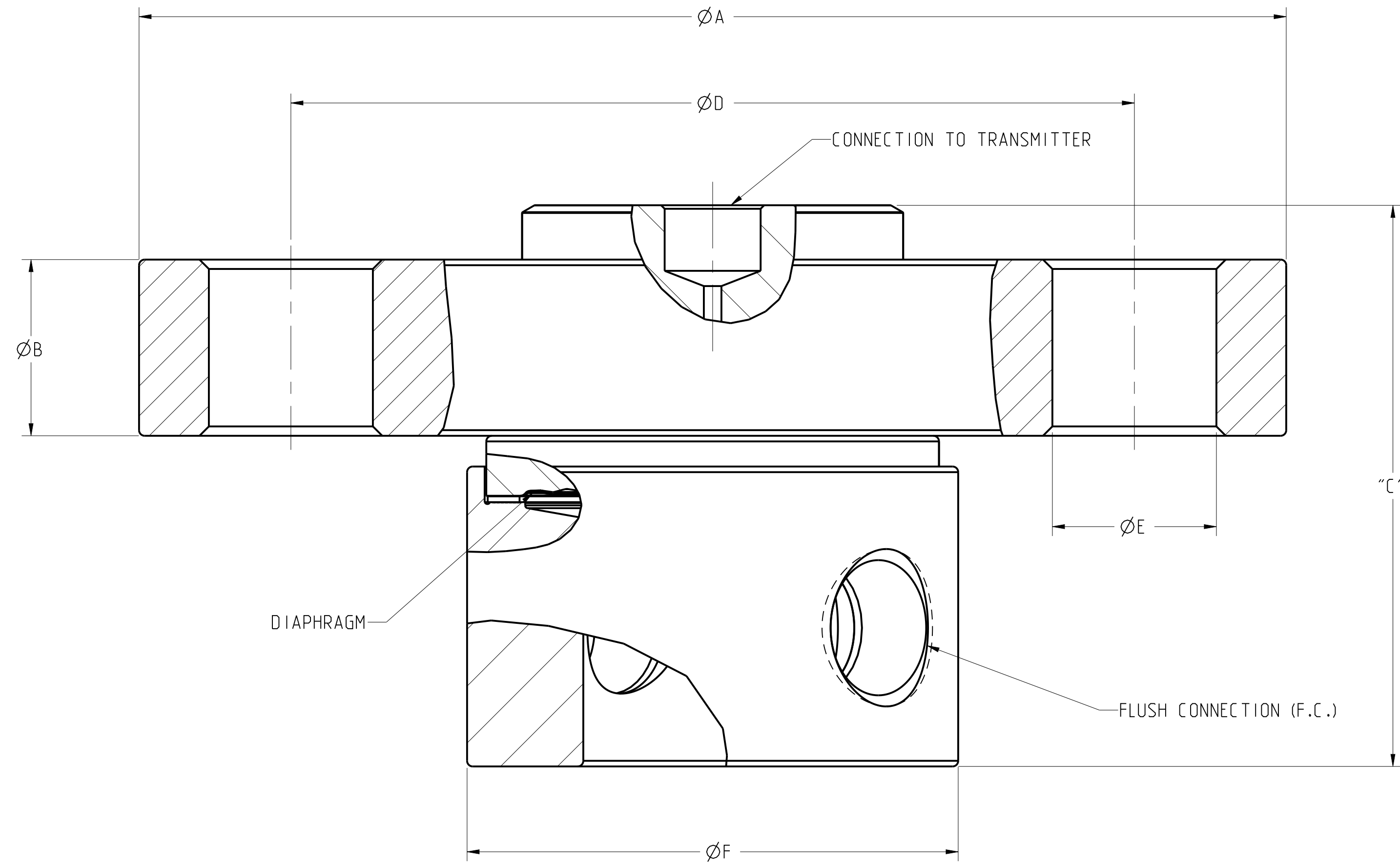
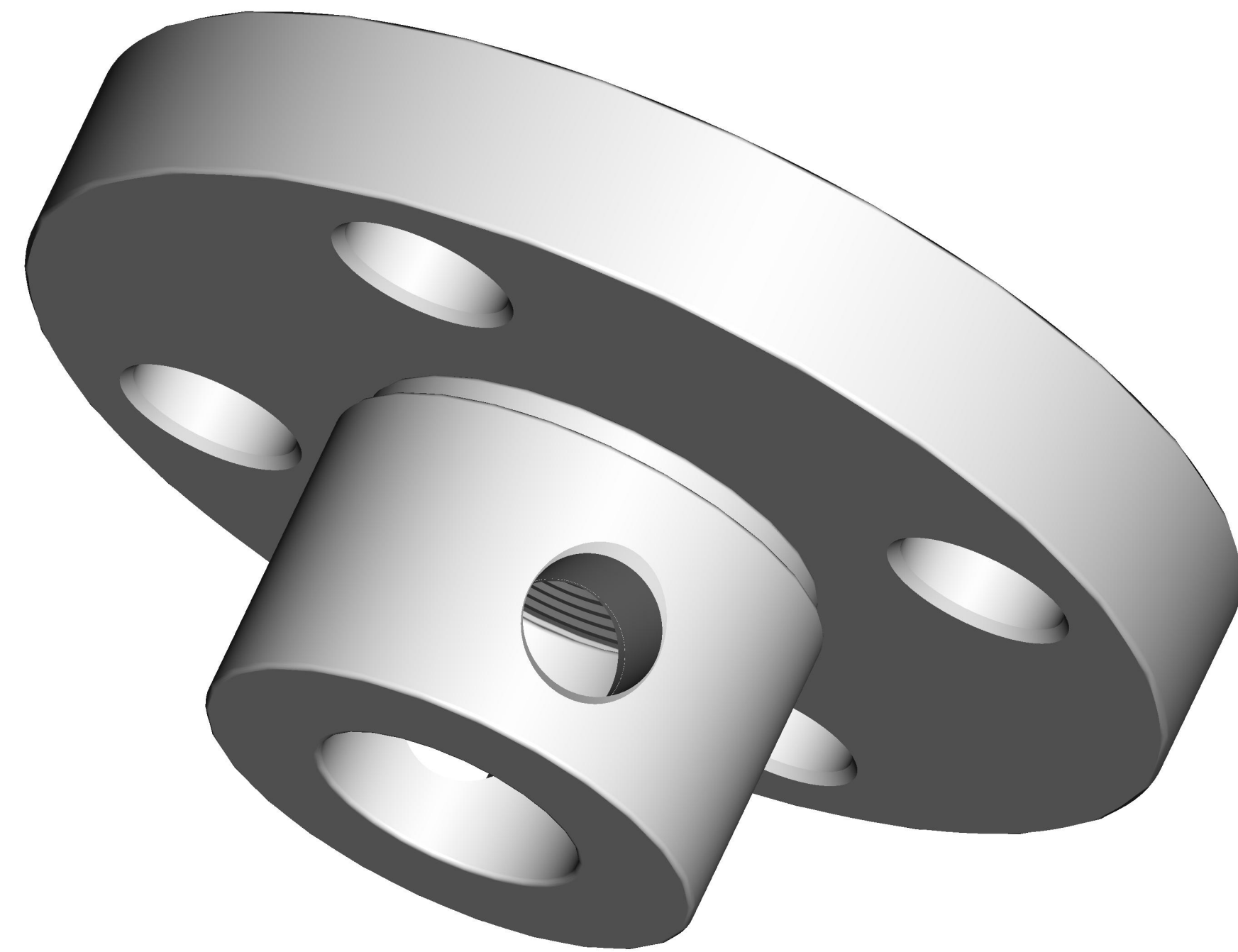
EMERSON

TITLE ROSEMOUNT 1299 SEALS  
TYPE I DRAWING

SIZE D SCALE NTS

**REMOVED FLANGED SEAL  
STANDARD INSERT DESIGN (SS)**

PIPE SIZE	CLASS	DIAMETER Ø "A" in.(mm)	THICKNESS "B" in.(mm)	OVERALL HEIGHT "C" in.(mm)	BOLT CIRCLE DIAMETER Ø "D" in. (mm)	BOLT HOLE DIAMETER "E" in. (mm)	LOWER HOUSING DIAMETER Ø "F" in.(mm)	WEIGHT lbs.(kg.)
3/4"	300 lb.	4.62 [117]	0.56 [14]	2.79 [71]	3.25 [83]	0.75 [19]	2.62 [67]	4.81 [2.18]
3/4"	600 lb.	4.62 [117]	0.62 [16]	2.79 [71]	3.25 [83]	0.75 [19]	2.62 [67]	4.81 [2.18]
3/4"	900 lb.	5.12 [130]	1.00 [25]	3.44 [87]	3.50 [89]	0.88 [22]	2.62 [67]	7.25 [3.26]
1"	150 lb.	4.25 [108]	0.50 [13]	2.79 [71]	3.12 [79]	0.63 [16]	2.62 [67]	4.19 [1.89]
1"	300 lb.	4.88 [124]	0.62 [16]	2.79 [71]	3.50 [89]	0.75 [19]	2.62 [67]	5.30 [2.39]
1"	600 lb.	4.88 [124]	0.69 [18]	2.79 [71]	3.50 [89]	0.75 [19]	2.62 [67]	5.58 [2.51]
1"	900 lb.	5.88 [149]	1.12 [28]	3.44 [87]	4.00 [102]	1.00 [25]	2.62 [67]	9.68 [4.36]
1-1/2"	150 lb.	5.00 [127]	0.62 [16]	2.45 [62]	4.50 [114]	0.55 [22]	2.88 [73]	5.63 [2.53]
1-1/2"	300 lb.	6.12 [155]	0.75 [19]	2.45 [62]	4.50 [114]	0.55 [22]	2.88 [73]	8.20 [3.69]
1-1/2"	600 lb.	6.12 [155]	0.88 [22]	2.45 [62]	4.88 [142]	1.13 [29]	2.88 [73]	9.09 [4.09]
1-1/2"	900 lb.	7.00 [178]	1.25 [32]	3.12 [79]	4.88 [142]	1.13 [29]	2.88 [73]	14.48 [6.52]
DN20	PN63-PN100	5.12 [130]	0.87 [22]	2.63 [67]	3.54 [90]	0.71 [18]	2.68 [68]	4.19 [1.89]
DN25	PN40	4.53 [115]	0.71 [18]	2.63 [67]	3.35 [85]	0.55 [14]	2.68 [68]	5.09 [2.29]
DN25	PN63-PN100	5.52 [140]	0.94 [24]	2.63 [67]	3.94 [100]	0.71 [18]	2.68 [68]	7.85 [3.53]
DN40	PN40	5.91 [150]	0.71 [18]	2.63 [67]	4.33 [110]	0.71 [18]	3.46 [88]	8.04 [3.62]
DN40	PN63-PN100	6.69 [170]	1.02 [26]	2.63 [67]	4.92 [125]	0.87 [22]	3.46 [88]	12.16 [5.47]



©2015 ROSEMOUNT INC.  
ROSEMOUNT INC. ACCEPTS  
NO LIABILITY FOR ERRORS OR  
OMISSIONS IN THIS DRAWING  
IN ACCORDANCE WITH  
ROSEMOUNT ENGINEERING  
SPECIFICATIONS.  
UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
PRODUCT SHEETS FOR  
PRODUCT SPECIFICATIONS.  
CLICK HERE

3RD ANGLE

**EMERSON**

TITLE  
**ROSEMOUNT 1299 SEALS  
TYPE I DRAWING**

DR. Z.EDSON 2/9/21 DRAWING NO.  
APP'D L1 BAOGANG 4/18/22

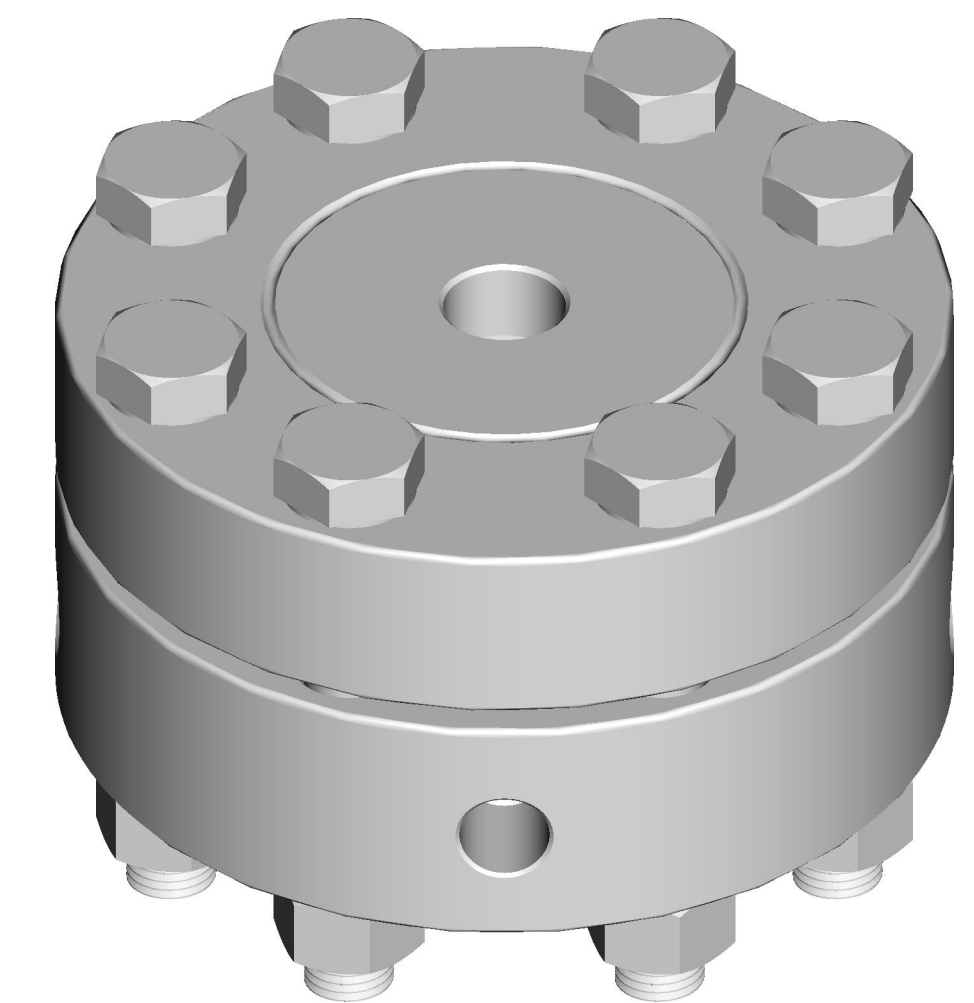
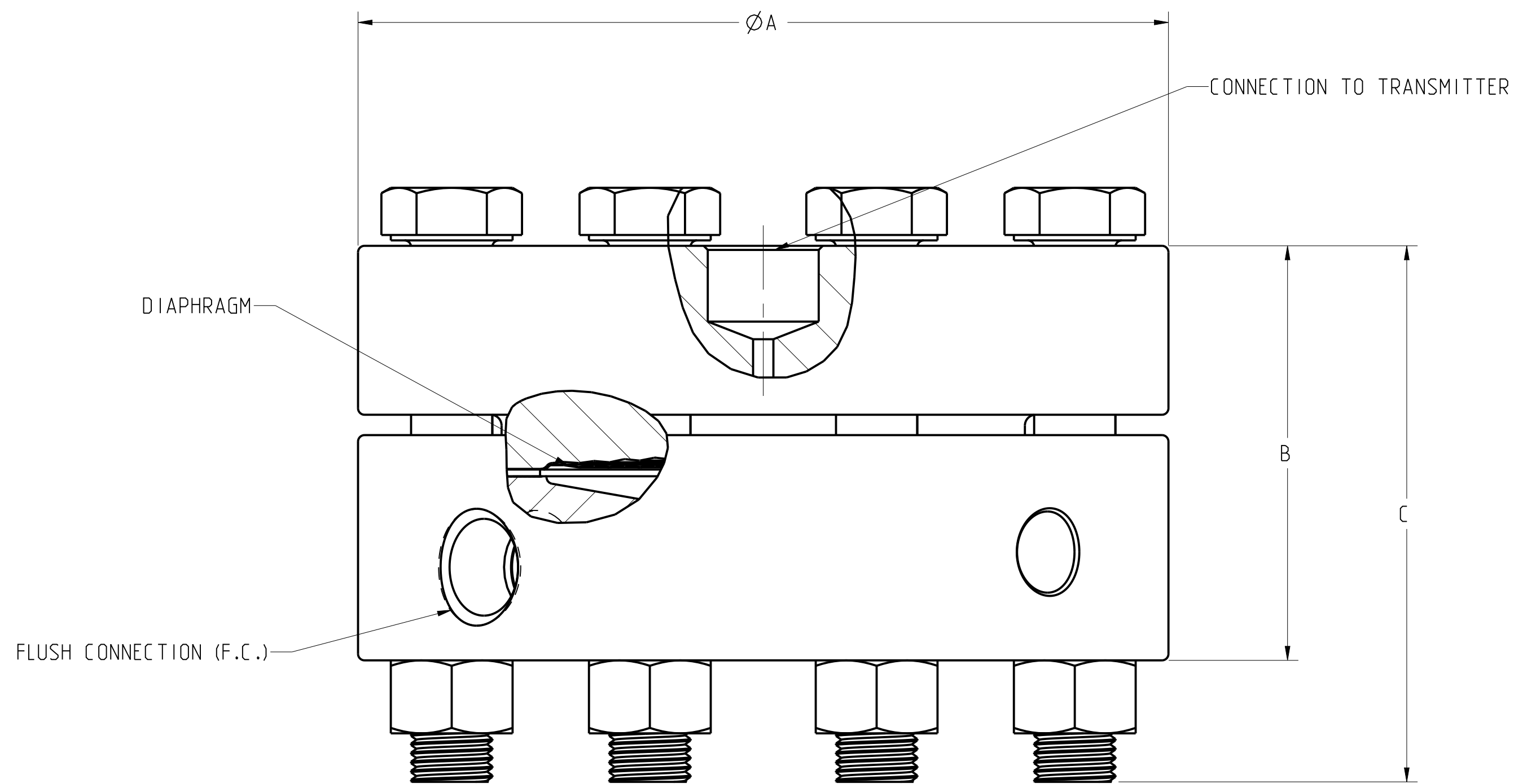
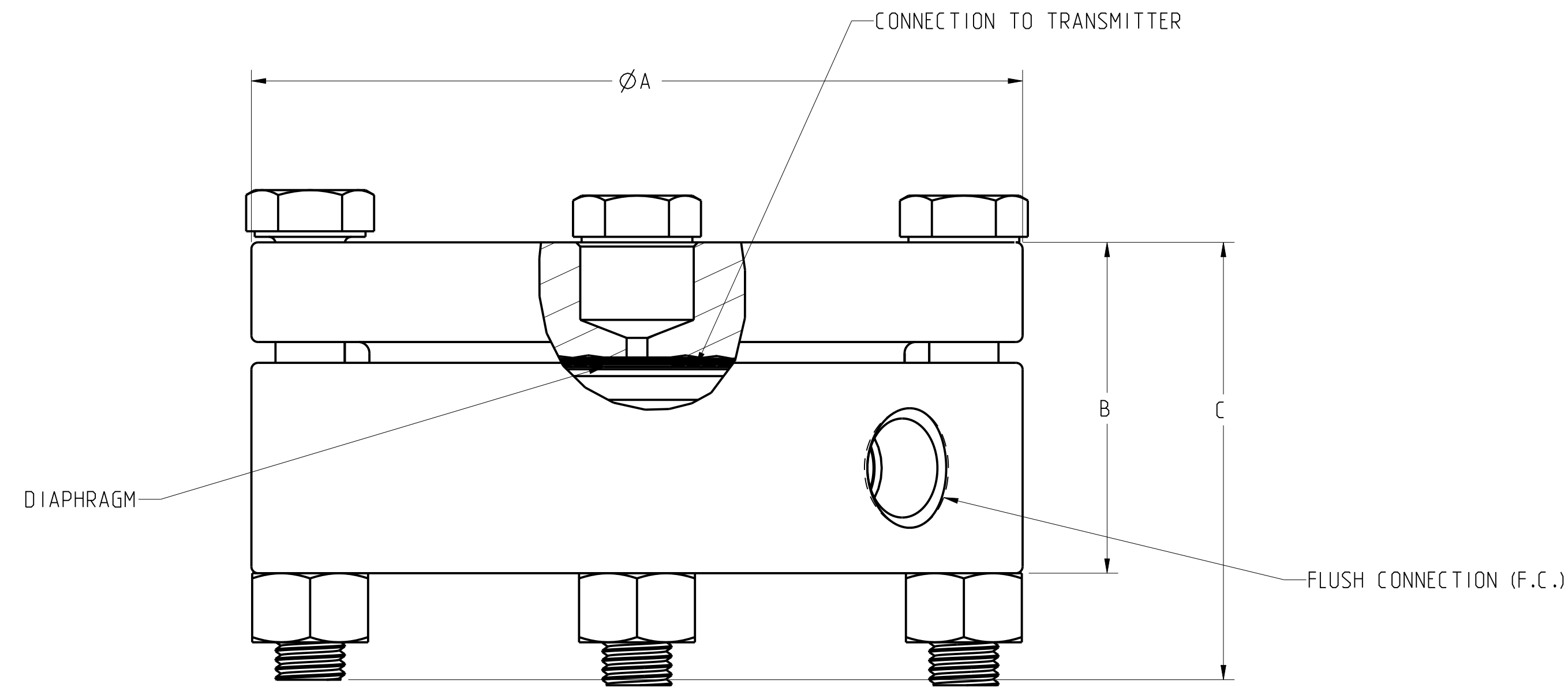
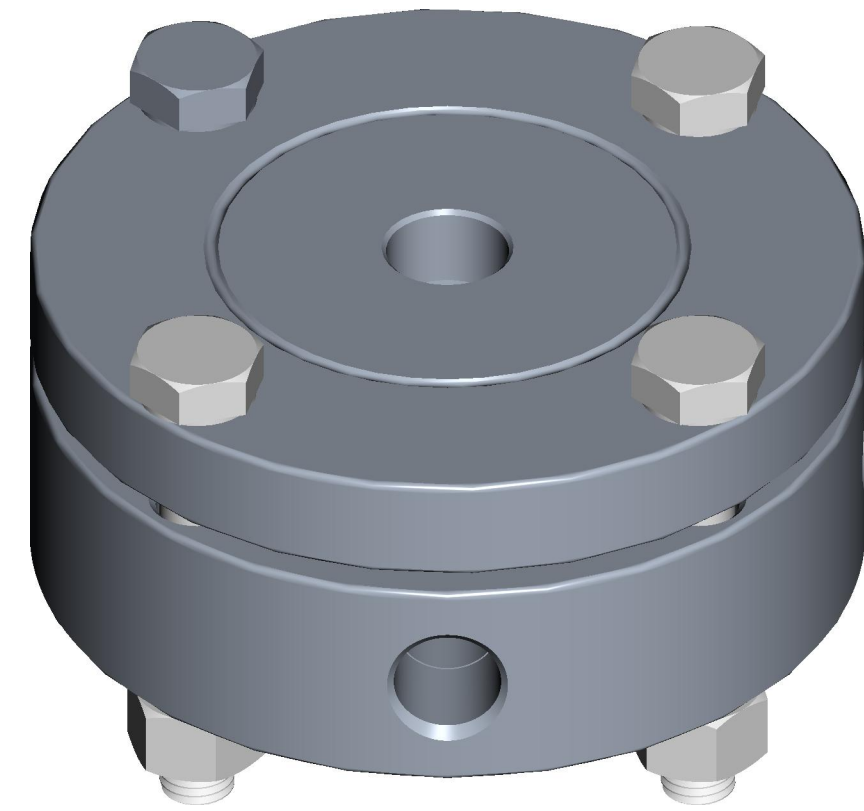
SIZE D SCALE NTS

01299-9500

CAD MAINTAINED. (PRO/EI) SHEET 18 OF 19

THREADED SEAL

RATING	OUTSIDE DIAMETER "A" in.(mm)	OVERALL HEIGHT "B" in.(mm)	BOLT LENGTH "C" in.(mm)	# OF BOLTS	WEIGHT lbs.(kg.)
800 psi (55 bar)	3.48 [88.4]	1.49 [37.8]	2.00 [50.8]	4	5.81 [2.63]
2500 psi (172 bar)	3.74 [95.0]	1.92 [48.8]	2.50 [63.5]	8	3.50 [1.59]



©2015 ROSEMOUNT, INC.  
 ROSEMOUNT INCORPORATES  
 THIS INFORMATION IN  
 THIS DRAWING IN ACCORDANCE WITH  
 ROSEMOUNT ENGINEERING  
 SPECIFICATIONS.  
 UNIT NOTES IN INCHES (mm).

REFERENCE ROSEMOUNT  
 PRODUCT SHEETS FOR  
 PRODUCT SPECIFICATIONS.  
 CLICK HERE

3RD ANGLE

**EMERSON**

TITLE ROSEMOUNT 1299 SEALS  
 TYPE I DRAWING

DR. Z.EDSON 2/9/21 DRAWING NO. 01299-9500

APP'D L1 BAOGANG 4/18/22

CAD MAINTAINED. (PRO/E) SHEET 19 OF 19