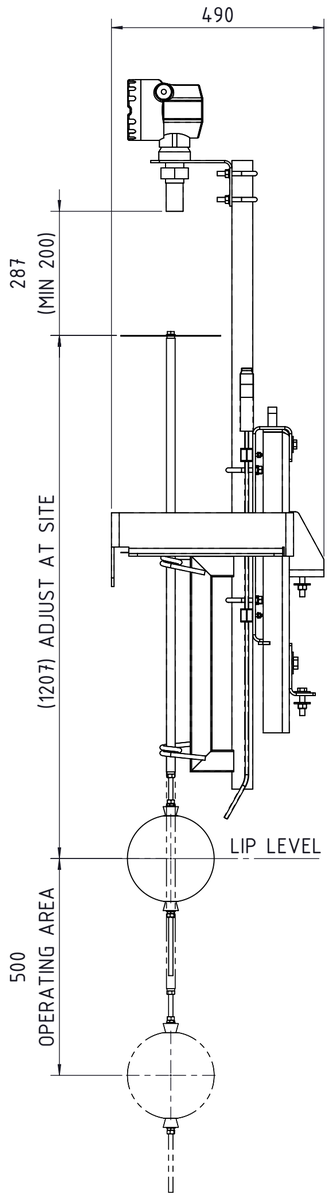
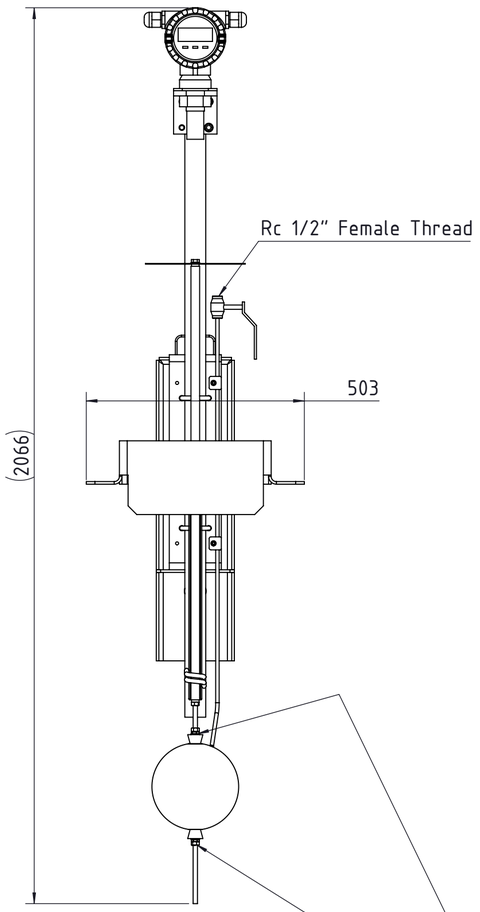
Metso:Outotec

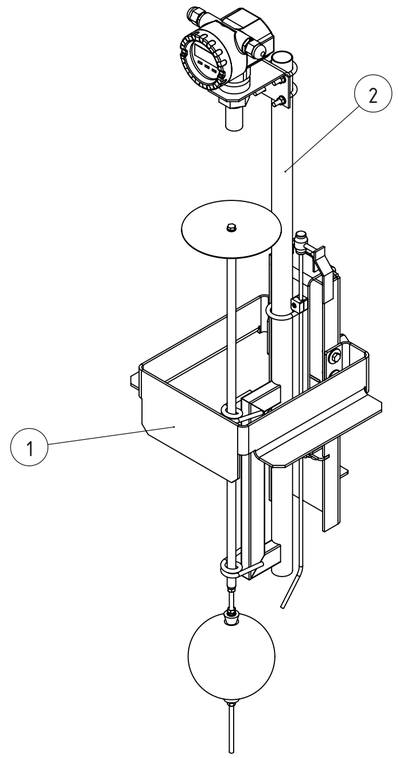
Item Number, rev.: **N031248594, 1** Item Description: **PULP LEVEL MEASUREMENT UNIT ASSEMBLY** Related Documents: **OU601837141, 0 (Assembly Drawing)**	Weight: 42kg	Customer:

L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
1	01		N031249040, 1	MOUNTING BASE ASSEMBLY			1 (EA)	27 27	
1	02		N048384635, 3	PULP LEVEL MEASUREMENT UNIT		X	1 (EA)	24 24	OU500676869, 0 (Spare Part Drawing)

GENERAL TOLERANCES ISO 2768-1 EN ISO 13920 EN ISO 9013 DIN 6935													Values in millimetres
LINEAR DIMENSIONS	Basic size range	> 0,5 ≤ 3	> 3 ≤ 6	> 6 ≤ 30	> 30 ≤ 120	> 120 ≤ 400	> 400 ≤ 1000	> 1000 ≤ 2000	> 2000 ≤ 4000	> 4000 ≤ 8000	> 8000 ≤ 12 000	> 12 000 ≤ 16 000	> 16 000 ≤ 20 000	> 20 000
Machining ISO 2768-m		± 0,1	± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2	± 2					
Chamfers and external radii		± 0,2	± 0,5	± 1										
Welding ISO 13920-B		± 1 (Range 2-30)			± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16
Thermal cutting ISO 9013-2		≥ 3 < 10		≥ 10 < 35	≥ 35 < 125	≥ 125 < 315	≥ 315 < 1000	≥ 1000 < 2000	≥ 2000 < 4000	Quality of cut surface ISO 9013-44				
3,15 < t ≤ 6,3		± 0,7		± 0,8	± 0,9	± 1,1	± 1,2	± 1,3	± 1,3					
6,3 < t ≤ 10		± 1		± 1,1	± 1,3	± 1,4	± 1,5	± 1,6	± 1,7					
10 < t ≤ 50		± 1,8		± 1,8	± 1,8	± 1,9	± 2,3	± 3	± 4,2					
ANGULAR DIMENSIONS	Shorter side	≤ 10		> 10 ≤ 50		> 50 ≤ 120		> 120 ≤ 400		> 400 ≤ 1000		> 1000		
Machining ISO 2768-m		± 1°		± 0°30'		± 0°20'		± 0°10'		± 0°5'				
Welding ISO 13920-B		± 13 mm/m								± 9 mm/m		± 6 mm/m		
Bending		SEE DIN 6935												
GEOMETRICAL TOLERANCES		Machining ISO 2768-K				Welding ISO 13920-F								

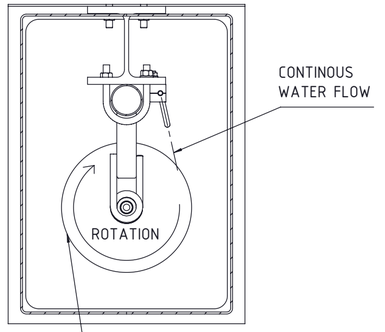


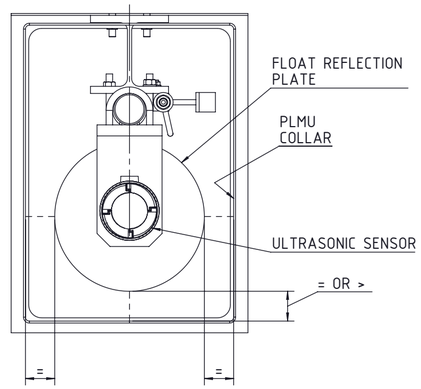




PULP LEVEL MEASUREMENT UNIT INSTALLATION NOTES:

MAKE SURE THE UNIT IS CENTERED, OTHERWISE ULTRASONIC SENSOR MAY RECEIVE FAULTY READINGS FROM COLLAR PLATES.





AFTER CERTIFIED ADJUSTMENT, LOCK WITH BOLT ADHESIVE LOCTITE 222 OR EQUAL.
FIRST, TIGHTEN THINNER NUTS CLOSER TO FLOAT, WITH 10 Nm TORQUE.
AFTER THAT, TIGHTEN NORMAL NUTS WITH 19 Nm TORQUE.

DIMENSIONS & BASIC MATERIAL								WEIGHT 41.96 kg
0	pasraj	02.02.2022	vestyn	02.02.2022	pekkall	02.02.2022	FOR FABRICATION	
REV.	NAME	DATE	NAME	DATE	NAME	DATE	REVISION TEXT	
	PREPARED		CHECKED		APPROVED			

Metso:Outotec

DOCUMENT TITLE
ASSEMBLY DRAWING
PULP LEVEL MEASUREMENT UNIT
PLMU-500-200-FA-EHFMU40-mA

REPLACED BY

REPLACES

LANGUAGE	UNITS	SCALE	SIZE	SHEET OF SHEETS
EN	mm	1:10	A2	1 / 1

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DOCUMENT ID	REVISION
OU601837141	0

Item Number, rev.: **N048384635, 3**
Item Description: **PULP LEVEL MEASUREMENT UNIT**

Related Documents: **OU500676869, 0 (Spare Part Drawing)**

Weight: 24kg

Customer:

L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
2	01		N031040379, 1	FRAME			1 (EA)	5.2 5.2	
2	02		N031040450, 4	FLOAT ASSEMBLY		X	1 (EA)	2.5 2.5	860647, 5 (Assembly Drawing)
2	03		599283, 1	LEVEL TRANSMITTER 0.25m TO 2-5m 4-20mA	ENDRESS+HAUSER, FMU40-ARH2A2		1 (EA)	3.6 3.6	
2	04		N031040889, 1	SUPPORT BRACKET			1 (EA)	1 1	
2	05		N031040489, 2	BEAM			1 (EA)	6.8 6.8	
2	06		N031040502, 1	WASHING PIPE			1 (EA)	0.2 0.2	
2	07		N048512135, 1	BALL VALVE DN8 PN10			1 (EA)		
2	08		N048512154, 1	STRAIGHT CONNECTOR L8xG 1/4 A			1 (EA)	0.043 0.043	
2	09		N048513149, 1	CLAMP Ø8mm	STAUFF, 108PP		2 (EA)	0.009 0.018	
2	10		N048008726, 1	SOCKET SCREW M6x40mm			2 (EA)	0.01 0.02	
2	11		N048005270, 1	PLAIN WASHER M6	ISO 7089 - M6 - 200HV - tZn		2 (EA)		
2	12		N048003446, 1	HEX NUT M6	ISO 4032 - M6 - 8 tZn		2 (EA)		
2	13		N048006815, 1	HEX HEAD SCREW M10x40mm			4 (EA)	0.04 0.16	
2	14		N048004661, 1	U BOLT			4 (EA)		
2	15		N048003530, 1	HEX NUT M10	ISO 4032 - M10 - tZn		12 (EA)	0.01 0.12	

Item Number, rev.: **N048384635, 3** Item Description: **PULP LEVEL MEASUREMENT UNIT** Related Documents: **OU500676869, 0 (Spare Part Drawing)**	Weight: 24kg	Customer:

L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
2	16		515279, 1	PLAIN WASHER M10	ISO 7089 - M10 - 200HV - tZn		16 (EA)	0.01 0.16	

Item Number, rev.: **N031040450, 4**
Item Description: **FLOAT ASSEMBLY**

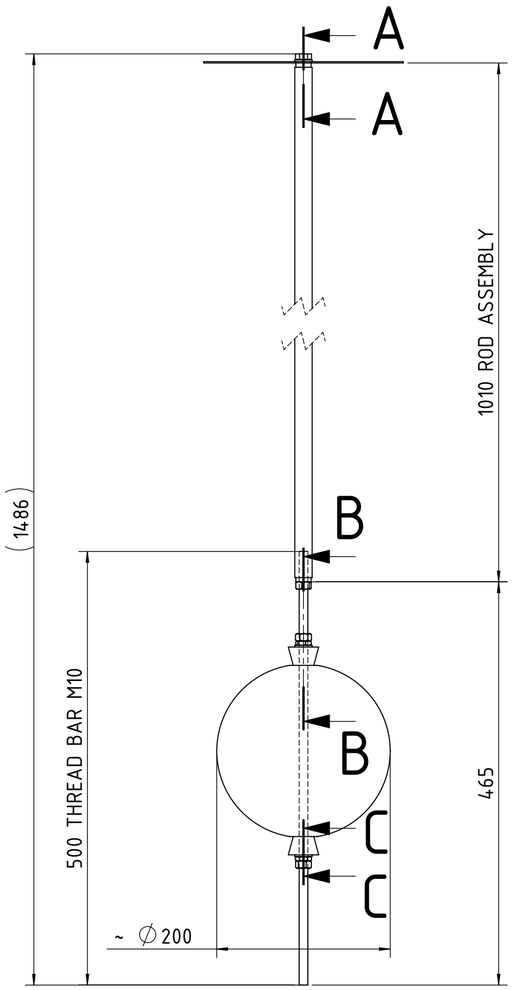
Related Documents: **860647, 5 (Assembly Drawing)**

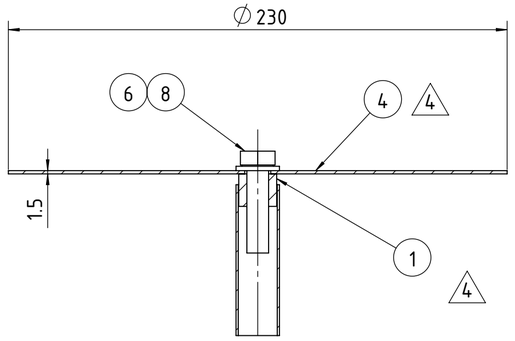
Weight: 2.5kg

Customer:

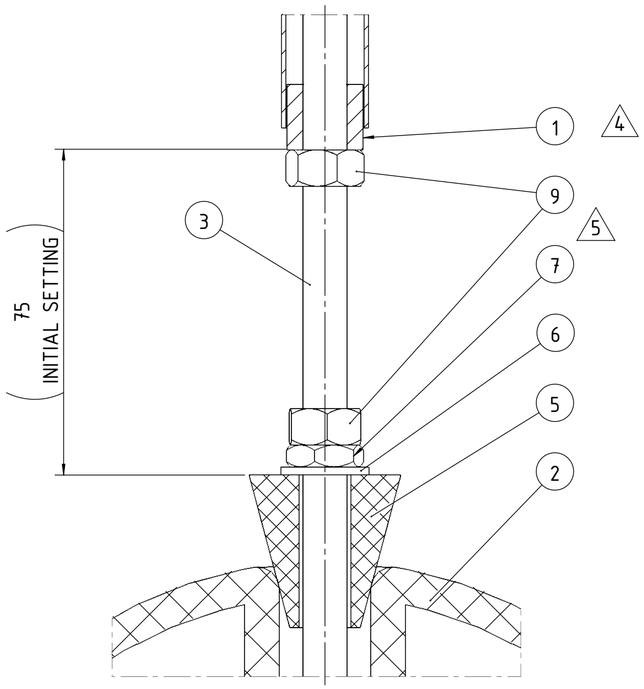
L	F/N	Reference Designator	Item Number	Description	Additional Information	BOM	Qty (unit)	Weight (kg)	Related Documents
3	01		N031101139, 1	ROD ASSEMBLY			1 (EA)	0.5 0.5	
3	02		N048396501, 1	FLOAT Ø8in	ATLANTIC FLOATS, 8022		1 (EA)	1.3 1.3	
3	03		N048378109, 1	THREAD BAR			1 (EA)	0.3 0.3	
3	04		N031040443, 2	REFLECTOR			1 (EA)	0.5 0.5	
3	05		N031040423, 2	CONE			2 (EA)		
3	06		604939, 1	PLAIN WASHER M10	ISO 7089 - M10 - 200HV - A4		3 (EA)	0.004 0.012	
3	07		N048003596, 1	HEX NUT M10	HEXAGON NUT ISO 4035 - M10 - A4		2 (EA)	0.01 0.02	
3	08		N048007584, 1	HEX HEAD SCREW M10x40mm			1 (EA)	0.04 0.04	
3	09		N048261915, 1	HEX NUT M10	ISO 4032 - M10 - A4-70		3 (EA)	0.01 0.03	

GENERAL TOLERANCES ISO 2768-1 EN ISO 13920 EN ISO 9013 DIN 6935														Values in millimetres
LINEAR DIMENSIONS	Basic size range													
	> 0,5 ≤ 3	> 3 ≤ 6	> 6 ≤ 30	> 30 ≤ 120	> 120 ≤ 400	> 400 ≤ 1000	> 1000 ≤ 2000	> 2000 ≤ 4000	> 4000 ≤ 8000	> 8000 ≤ 12 000	> 12 000 ≤ 16 000	> 16 000 ≤ 20 000	> 20 000	
Machining ISO 2768-m	± 0,1	± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2	± 2						
Chamfers and external radii	± 0,2	± 0,5	± 1											
Welding ISO 13920-B	± 1 (Range 2-30)			± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16	
Thermal cutting ISO 9013-2	≥ 3 < 10		≥ 10 < 35	≥ 35 < 125	≥ 125 < 315	≥ 315 < 1000	≥ 1000 < 2000	≥ 2000 < 4000	Quality of cut surface ISO 9013-44					
3,15 < t ≤ 6,3	± 0,7		± 0,8	± 0,9	± 1,1	± 1,2	± 1,3	± 1,3						
6,3 < t ≤ 10	± 1		± 1,1	± 1,3	± 1,4	± 1,5	± 1,6	± 1,7						
10 < t ≤ 50	± 1,8		± 1,8	± 1,8	± 1,9	± 2,3	± 3	± 4,2						
ANGULAR DIMENSIONS	Shorter side													
	≤ 10		> 10 ≤ 50		> 50 ≤ 120		> 120 ≤ 400		> 400 ≤ 1000		> 1000			
Machining ISO 2768-m	± 1°		± 0°30'		± 0°20'		± 0°10'		± 0°5'					
Welding ISO 13920-B	± 13 mm/m								± 9 mm/m		± 6 mm/m			
Bending	SEE DIN 6935													
GEOMETRICAL TOLERANCES	Machining ISO 2768-K Welding ISO 13920-F													

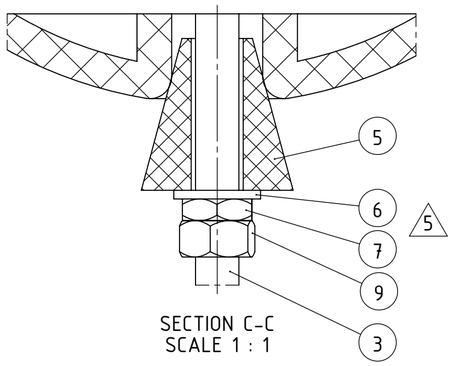




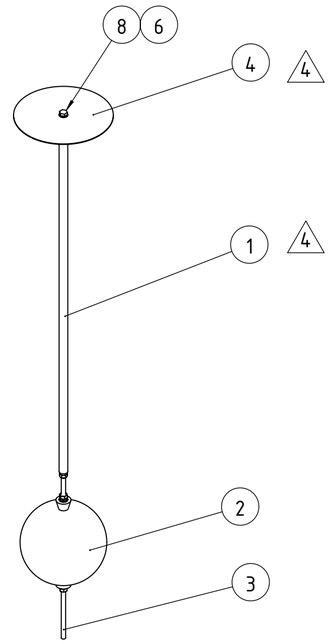
SECTION A-A
SCALE 1 : 2



SECTION B-B
SCALE 1 : 1



SECTION C-C
SCALE 1 : 1



SCALE 1:10

REV.	NAME	DATE	NAME	DATE	NAME	DATE	REVISION TEXT
	PREPARED		CHECKED		APPROVED		
0	TJ	03.04.2009	HJ	07.04.2009	Admin	16.04.2009	SHEET UPDATED
2	vestyn	29.06.2015	mikiha	30.06.2015	juhkau	03.07.2015	DRAWING REVISED
3	juhsalm	10.08.2016	juspel	10.08.2016	juhkau	10.08.2016	FLOAT BALL SIZE CHANGED FROM 11in TO 8in
4	teemat	04.10.2017	teocor	24.07.2018	jertuo	24.07.2018	ITEM 1 CHANGED TO ASSEMBLY, ITEM 9 NAMED ITEM 4
5	matter	28.01.2020	teokoh	04.02.2020	MarRaj	04.02.2020	NUT SIZES CHANGED

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DOCUMENT TITLE
ASSEMBLY DRAWING
FLOAT ASSEMBLY
PLMU-500-200
LEVEL CONTROL

LANGUAGE	UNITS	SCALE	SIZE	SHEET OF SHEETS
EN	mm	1:5	A2	1 / 1

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DOCUMENT ID 860647

REVISION 5