PROJECT TITLE: SUPPLY OF SPM AND PLEM	CONT. No.: XXXX-XX-XX						Page: 1 of 16	
	DOCUMENT CODE							Class
	PLAN/PRJ	UNIT	PHASE	DISC	DOC. TYPE	SER. NO.	REV. NO.	
	JT	1	000	11621-ORW	VD	0183	D5	

Ancillary Drawing

Body Float for 20inch Hose (ID 697mm)

IOEC
VENDOR DOCUMENT REVIEW

☑ **A** Accepted
☐ **B** Accepted, proceed with work and incorporate comments and re-submit
☐ **C** Not accepted. Revise and re-submit
☐ **D** For Information only

D5	08/09/2021	AFC	AS	MB	FS	MANULI
D4	02/08/2021	AFC	AS	MB	FS	MANULI
D3	30/06/2021	AFC	AS	MB	FS	MANULI
D2	19/04/2021	AFC	AS	MB	FS	MANULI
D1	12/11/2020	IFC	AS	MB	FS	MANULI
D0	23/09/2020	IFC	AS	MB	FS	MANULI
REV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	ORIGINATOR

CLIENT

MSH SHIP MANAGEMENT

PROJECT

OIL TERMINAL AND MARINE FACILITIES

OBT DOCUMENT NUMBER

OBT-4082-405-31

CLIENT DOCUMENT NUMBER

JT-1-000-11621-ORW-VD-0183

TOTAL NO OF PAGES (*INCLUDING THIS ONE)*

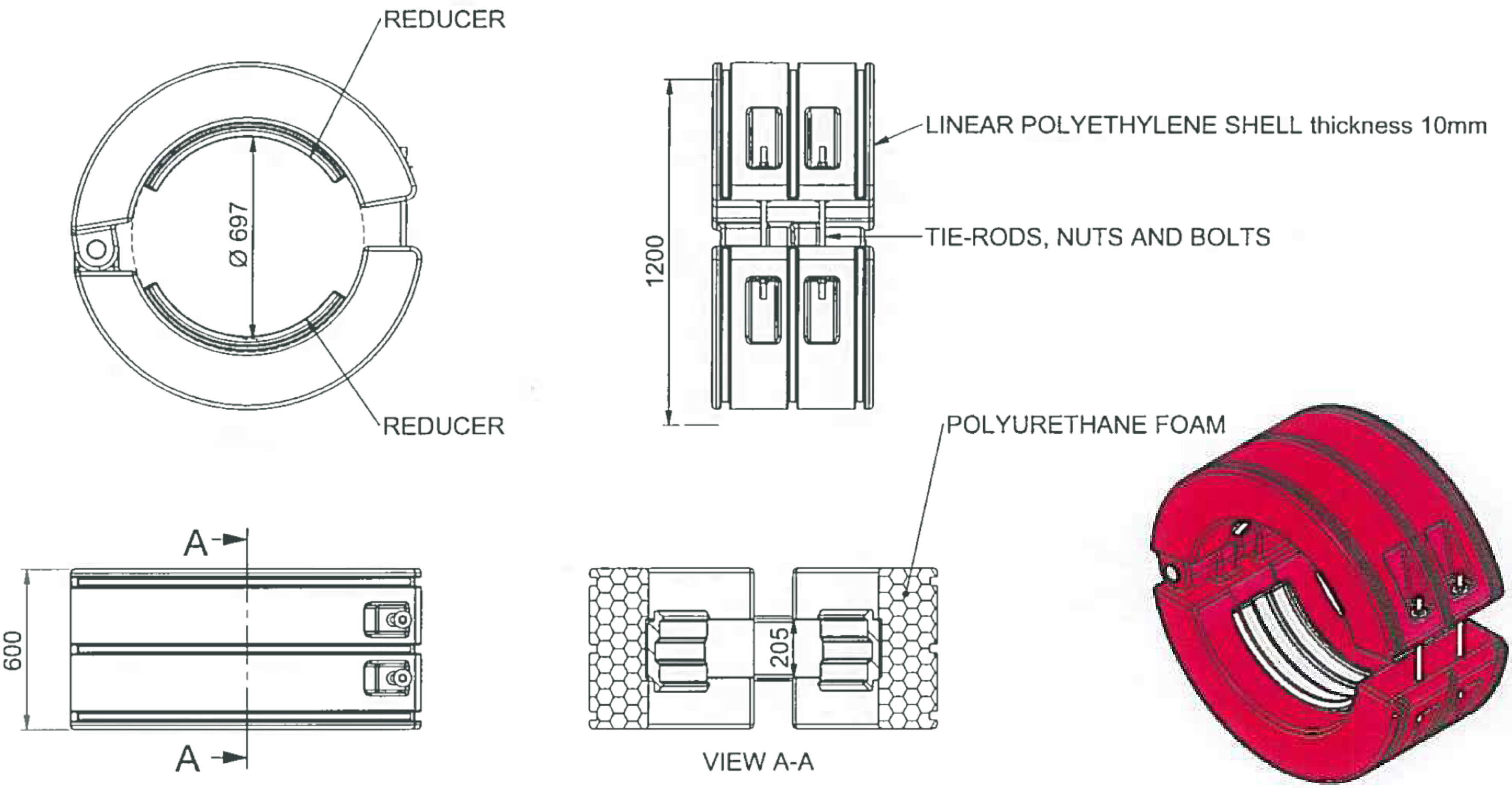
15

TITLE

Ancillary Drawing
Body Float for 20inch Hose (ID 697mm)

REVISION HISTORY & ELECTRONIC SIGN OFF						
3	08/09/2021	Approved for Construction	AS	MB	FS	MANULI
2	02/08/2021	Approved for Construction	AS	MB	FS	MANULI
1	30/06/2021	Approved for Construction	AS	MB	FS	MANULI
0	19/04/2021	Approved for Construction	AS	MB	FS	MANULI
B	12/11/2020	Issued for Comment	AS	MB	FS	MANULI
A	23/09/2020	Issued for Comment	AS	MB	FS	MANULI
REV	**DATE**	**STATUS**	**BY**	**CHK**	**APP**	**CLIENT**

Specification: SPM - Floating and Submarine Hoses Specification OBT-4082-SV-032



RESINEX
SINCE 1961 MARINE TECHNOLOGY

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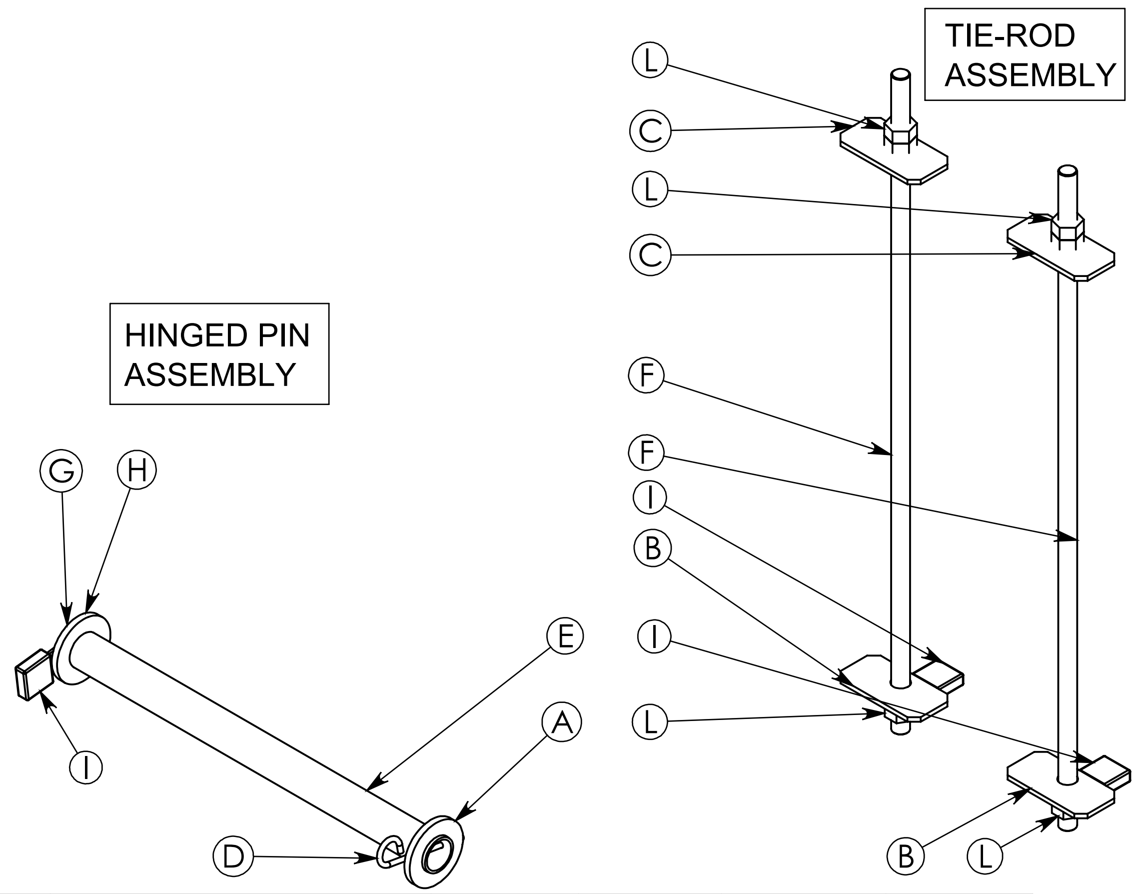
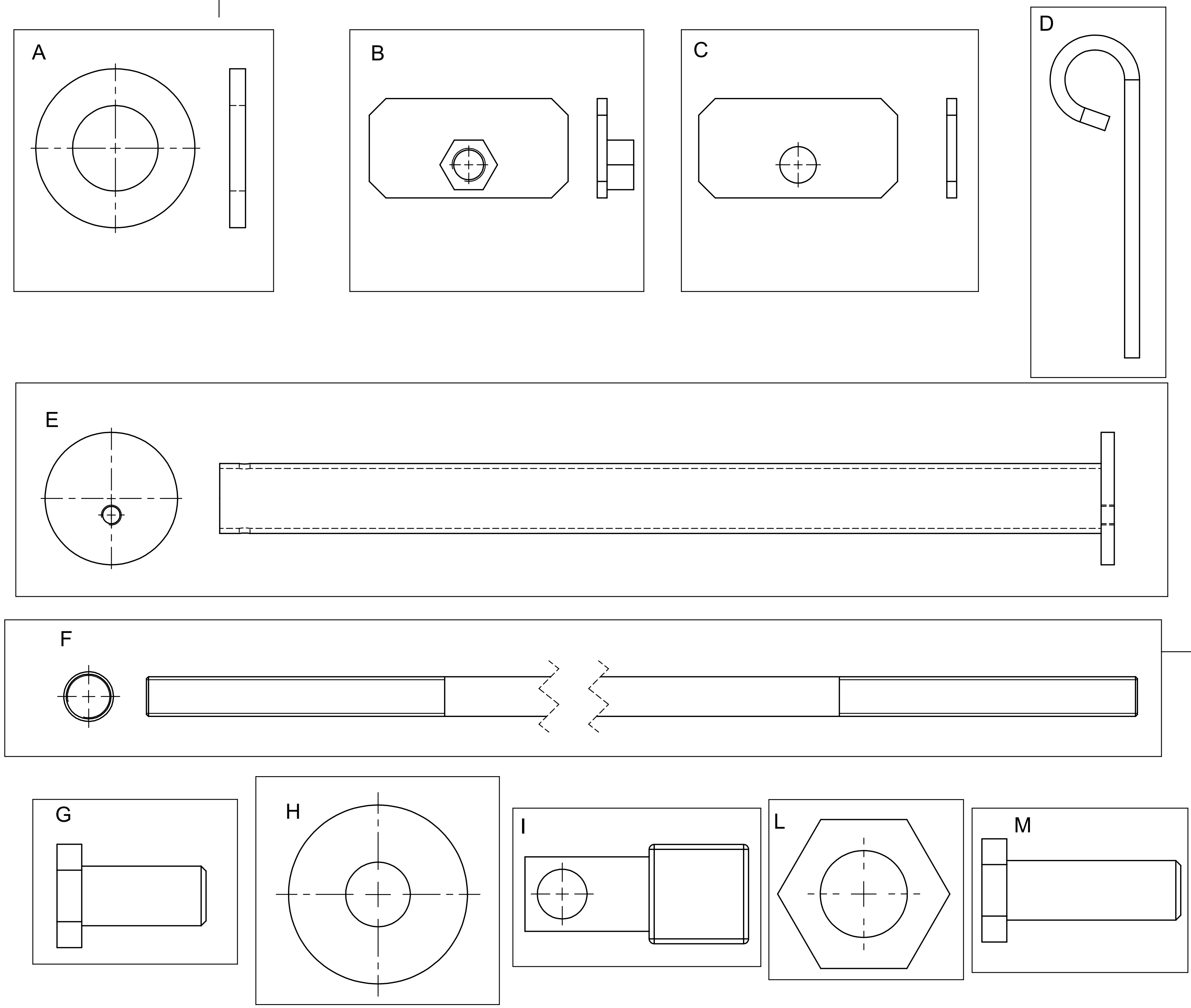
MATERIALS:	DRAWN: F. RASCHIONI	CHECKED: F. CIAGLIA	APPROVED: P.ZANOLI
LINEAR POLYETHYLENE	TOTAL DRY WEIGHT : 167 kg	TITLE: RESINEX DEEP WATER FLOAT GROOVED 20"HE 24"HB Øi697	
POLYURETHANE FOAM	NET BUOYANCY : 212 kg		
STAILESS STEEL AISI 316 L	RATED DEPTH : 80 meters	DWG N° 25441-20 REV.0	A4
	DATE: 23/07/2020		
	TOLERANCE +/- 5%	SCALE:1:20	





ID	SCREWS LIST	QUANTITY	TORQUE	STANDARD	MATERIAL
	TIE ROD ASSEMBLY				
F	THREADED BAR M20x850	2	200 Nm	-	STAINLESS STEEL 316L
L	NUT M20	6	200 Nm	UNI 5588	STAINLESS STEEL A4
B	PLATE WITH WELDED NUT	2		-	STAINLESS STEEL 316L
C	PLATE	2		-	STAINLESS STEEL 316L
I	ZINC ANODE	2		-	ZINC
	HINGED PIN ASSEMBLY				
E	PASSING THROUGH PIN	1		-	STAINLESS STEEL 316L
D	SPLIT PIN Ø6	1		ISO 1234	STAINLESS STEEL A4
A	WASHER Ø43x80	1		-	STAINLESS STEEL 316L
I	ZINC ANODE	1		-	ZINC
G	SCREW M12X20	1	20 Nm	UNI 5739	STAINLESS STEEL A4
H	WASHER Ø12x36	1		UNI 6592	STAINLESS STEEL A4
	PE REDUCTION				
H	WASHER Ø12x36	4		UNI 6592	STAINLESS STEEL A4
M	SCREW M12x35	4	20 Nm	UNI 5739	STAINLESS STEEL A4

RESINEX
SINCE 1961 MARINE TECHNOLOGY

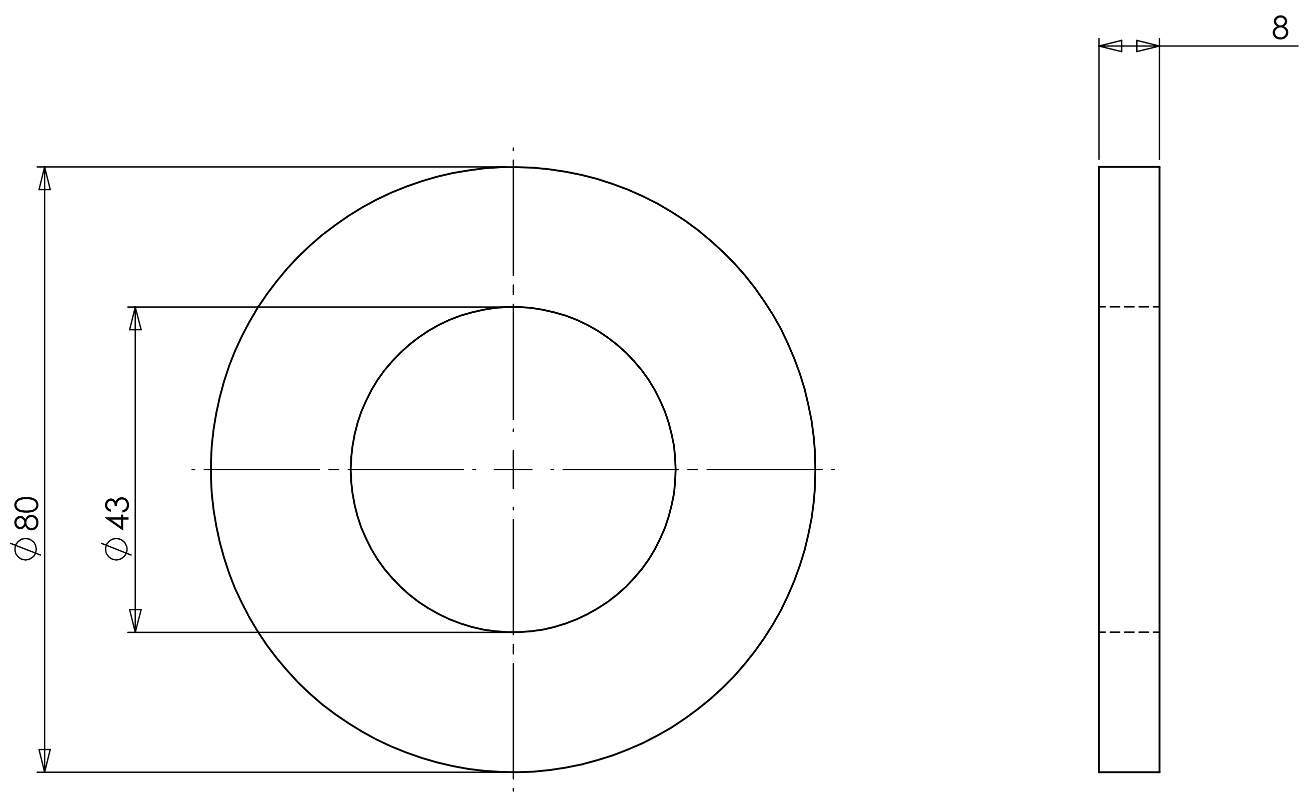
DRAWN: C.A. MORI
CHECKED: P. PAGNONI
APPROVED: P.ZANNI

TITLE: COMPONENTS LIST FOR DWF 20" GROOVED Ø697mm

DATE: '06/09/2021
TOLERANCE +/- 5%

DWG N° 25441-A/20 REV.2

A3



RESINEX
SINCE 1961 MARINE TECHNOLOGY

PROPRIETARY AND CONFIDENTIAL

DRAWN: C.A. MORI

CHECKED: P. PAGNONI

APPROVED: P.ZANNI

MATERIAL:
STAINLESS STEEL 316L

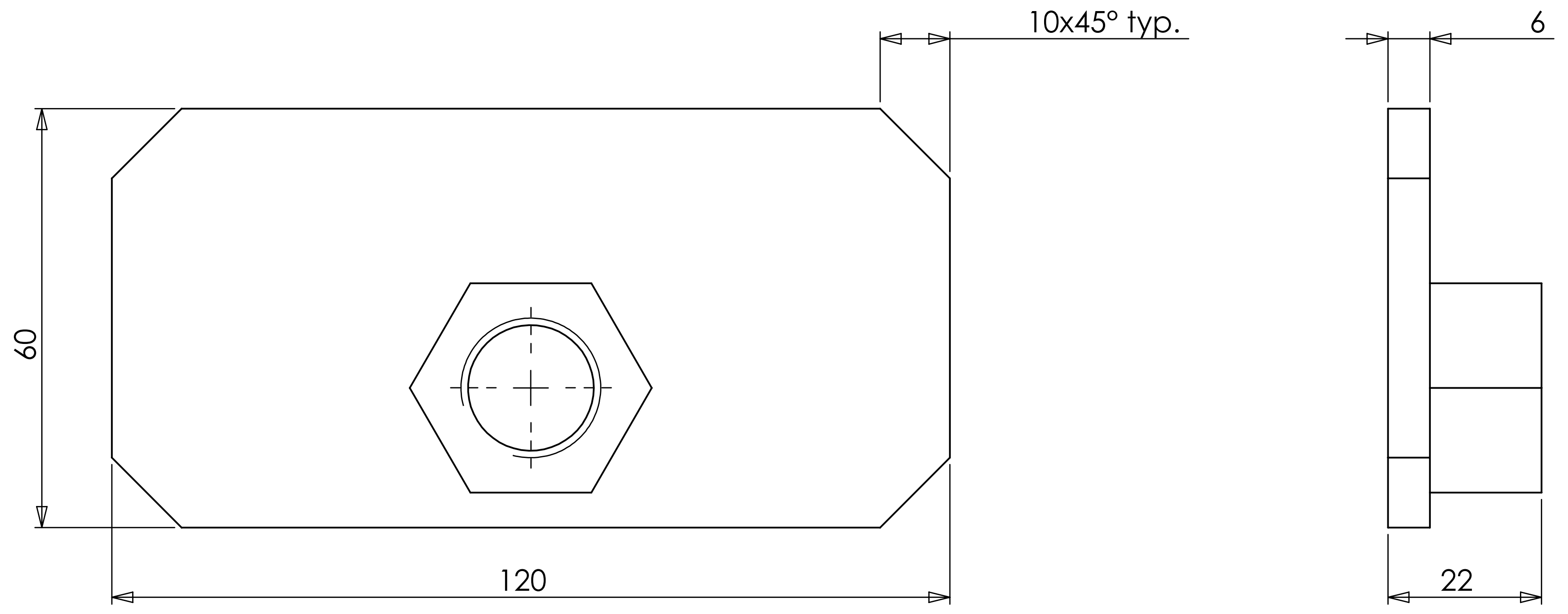
TITLE:
WASHER Ø43X80
'A'

DWG N° 25441-B/20 REV.2

A3

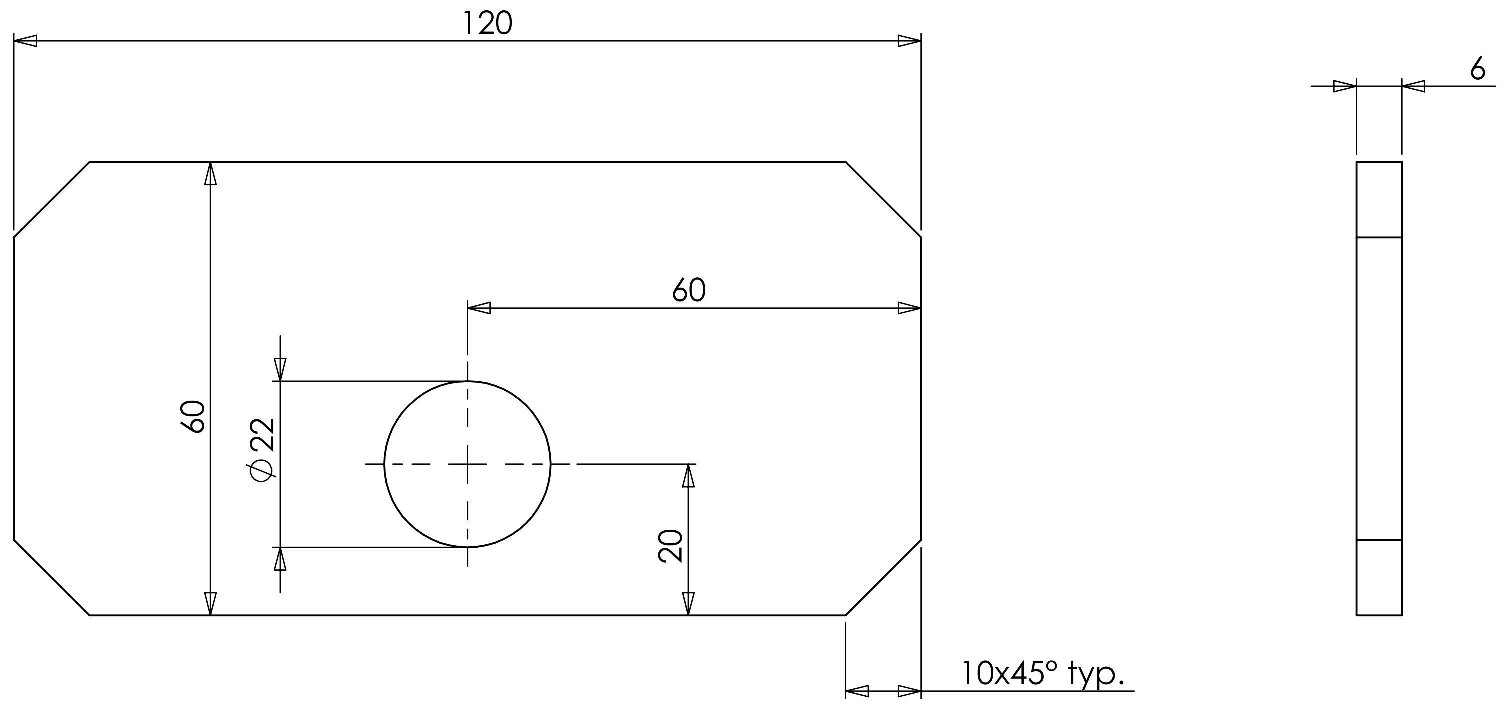
DATE: '06/09/2021

TOLERANCE +/- 5%



PROPRIETARY AND CONFIDENTIAL

DRAWN: C.A. MORI	CHECKED: P. PAGNONI	APPROVED: P.ZANNI
MATERIAL: STAINLESS STEEL 316L	TITLE: PLATE WITH WELDED NUT 'B'	
DATE: '06/09/2021	DWG N° 25441-C/20 REV.1	A3
TOLERANCE +/- 5%		



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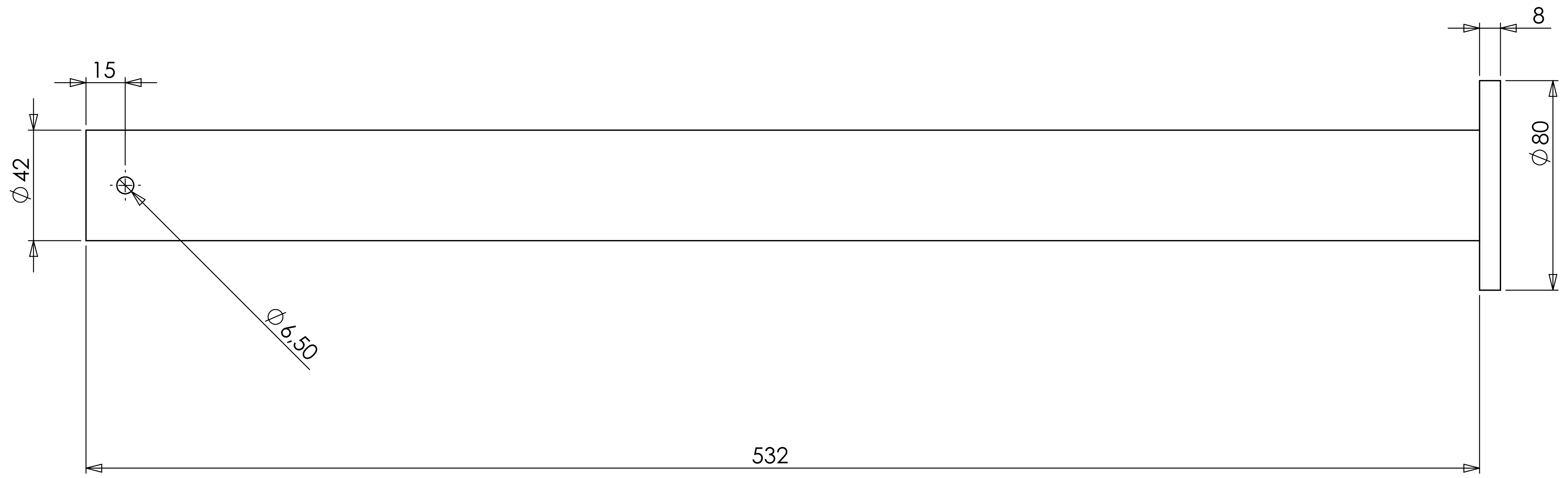
DRAWN: C.A. MORI	CHECKED: P. PAGNONI	APPROVED: P.ZANNI
MATERIAL: STAINLESS STEEL 316L	TITLE: PLATE 'C'	
DATE: '06/09/2021	DWG N° 25441-D/20 REV.1	A3
TOLERANCE +/- 5%		



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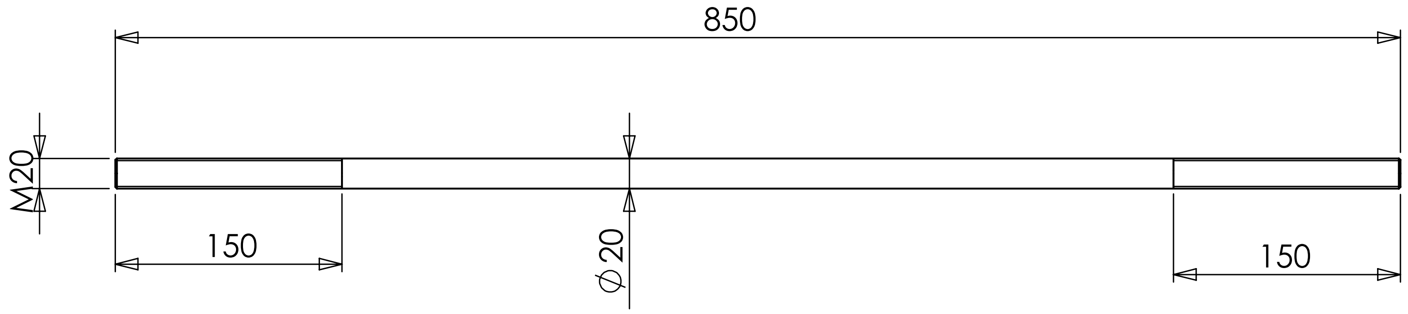
DRAWN: C.A. MORI	CHECKED: P. PAGNONI	APPROVED: P.ZANNI
MATERIAL: STAINLESS STEEL 316L	TITLE: PASSING THROUGH PIN 'E'	
DATE: '06/09/2021	DWG N° 25441-E/21 REV.1	A3
TOLERANCE +/- 5%		



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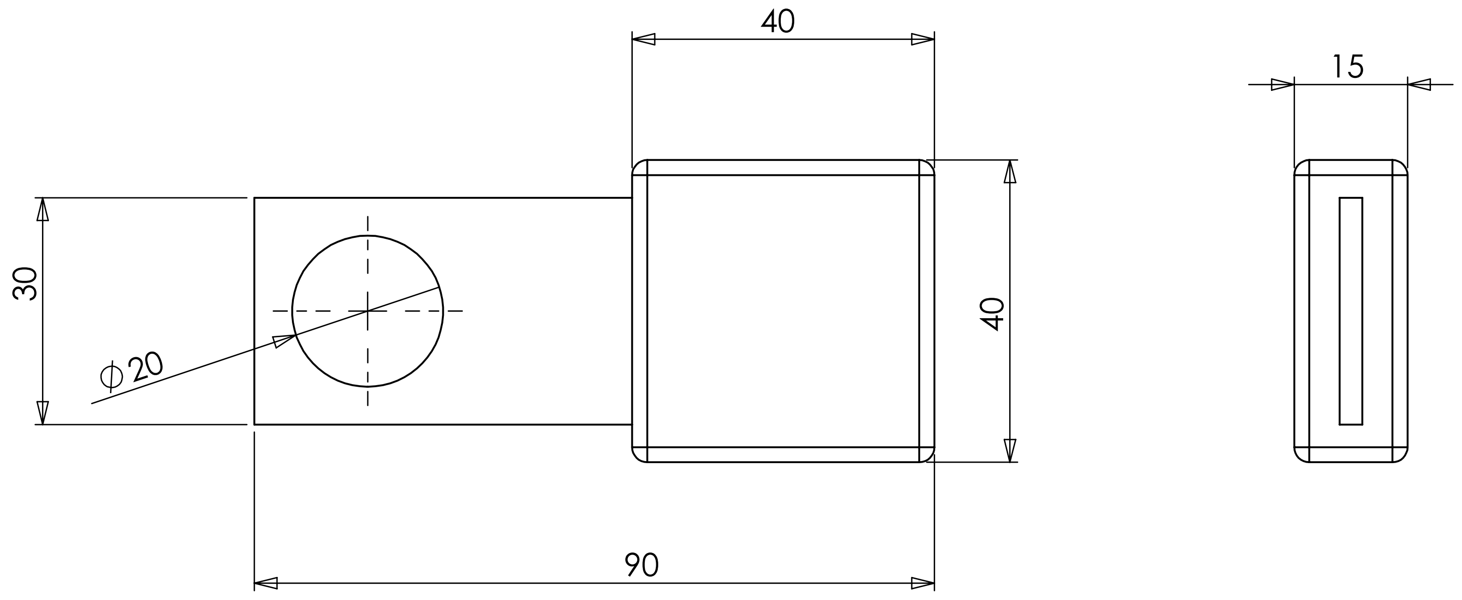
DRAWN: C.A. MORI	CHECKED: P. PAGNONI	APPROVED: P.ZANNI
MATERIAL: STAINLESS STEEL 316L	TITLE: THREADED BAR 'F'	
DATE: '06/09/2021	DWG N° 25441-F/20 REV.1	A3
TOLERANCE +/- 5%		



RESINEX SINCE 1961 MARINE TECHNOLOGY	**PROPRIETARY AND CONFIDENTIAL** THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RESINEX TRADING S.r.l. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OFRESINEX TRADING S.r.l. IS PROHIBITED.	DRAWN: C.A. MORI	CHECKED: P. PAGNONI	APPROVED: P.ZANNI
		MATERIAL: ZINC	TITLE: ZINC ANODE 'F'	
		DATE: '06/09/2021	DWG N° 25441-G/20 REV.0	A3
		TOLERANCE +/- 5%		

RESINEX TRADING S.R.L.

Via Cappuccio 14, 20123. Milan, Italy
Ph: +39 030.745 7245 marketing@resinextrad.com

TECHNICAL REPORT

ASSEMBLY MANUAL

(DEEP WATER FLOAT GROOVED WITH REDUCER AND UMBILICAL IF APPLICABLE)

Date: 08/06/2021

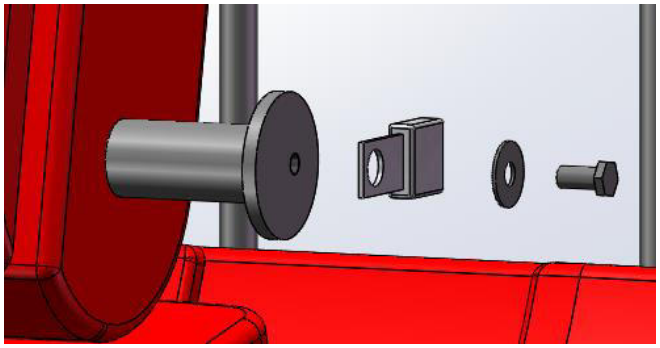
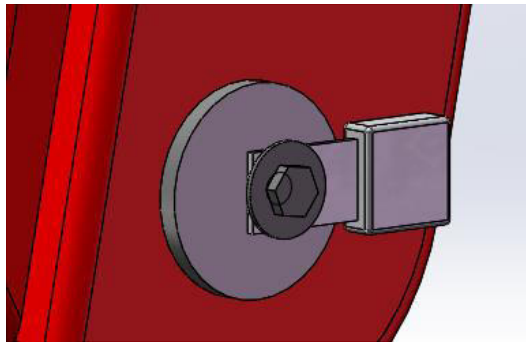
INTRODUCTION

- The purpose of this manual is to clarify how to assemble the deep water floats grooved type.
- At point 2 second side, M20 nuts should be adjusted when the float is mounted to the pipe.
- Points 3 and 4 should be followed only if there are reducers and/or umbilical clamps.
- At point 4, umbilical upper part and M16 nuts, should be adjusted according to the wire when mounted.

1. Mounting of two halves of floats.

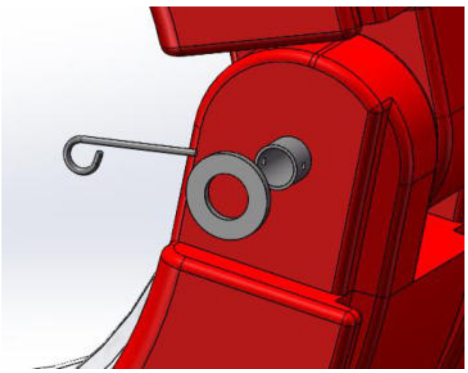
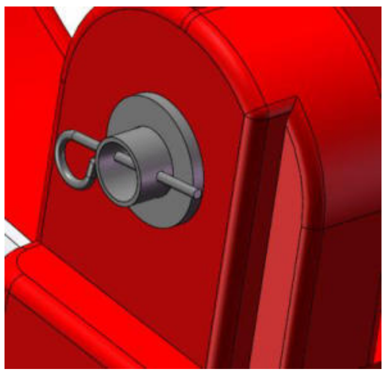
Components sequence, first side:

- Passing through pin
- Zinc anode
- Washer Ø12x36
- Screw M12x20

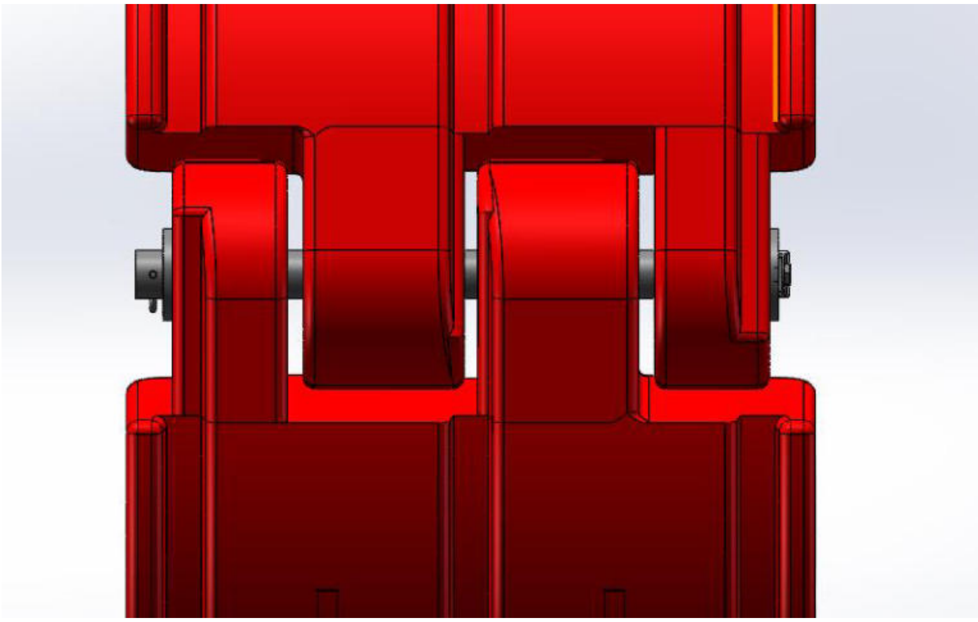
Components sequence, second side:

- Washer Ø43x80
- Split pin

When the split pin is mounted, it has to be bent to avoid dismounting.

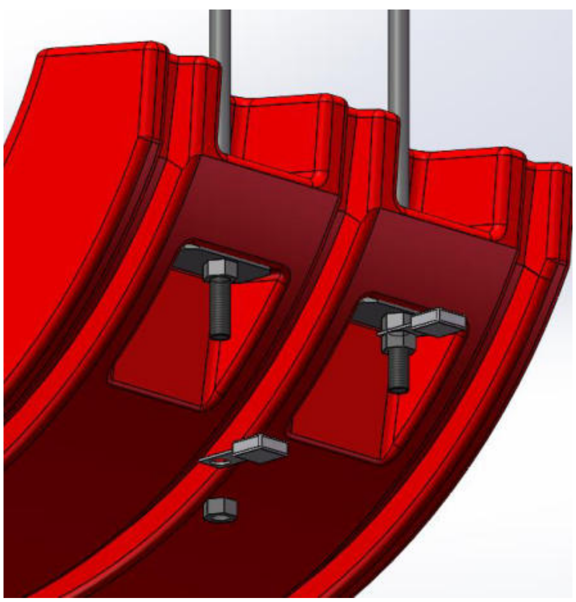
Through pin assembled:

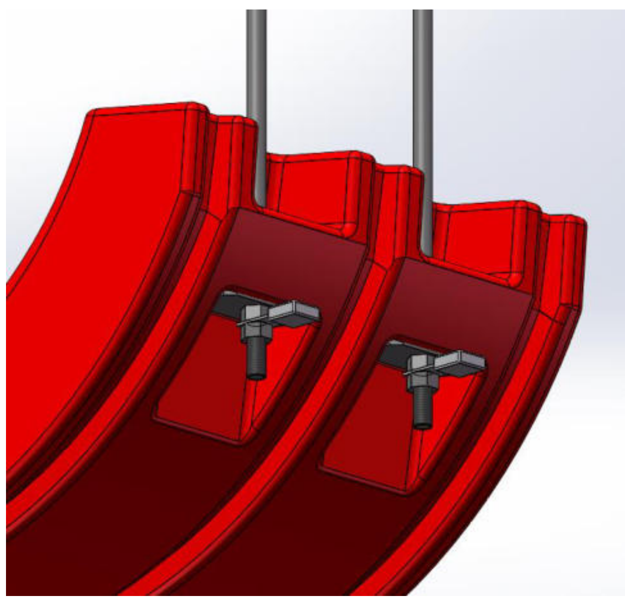


2. Mounting of rods.

Components sequence, first side:

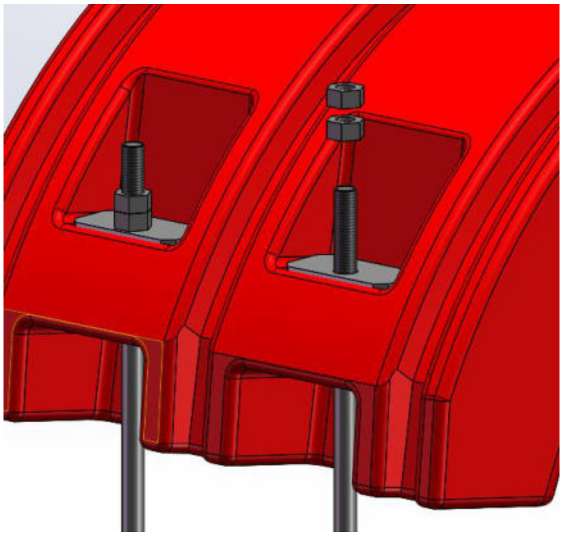
- Threaded bar M20
- Plate with welded nut
- Zinc anode
- Nut M20

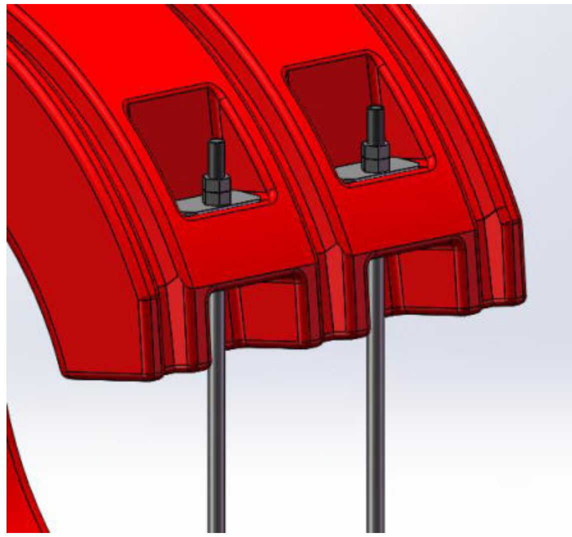




Components sequence, second side:

- Plate
- Nut M20
- Nut M20

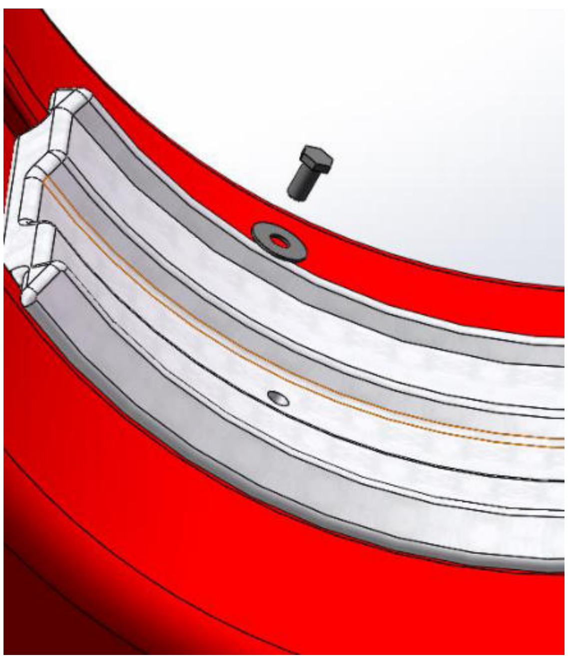


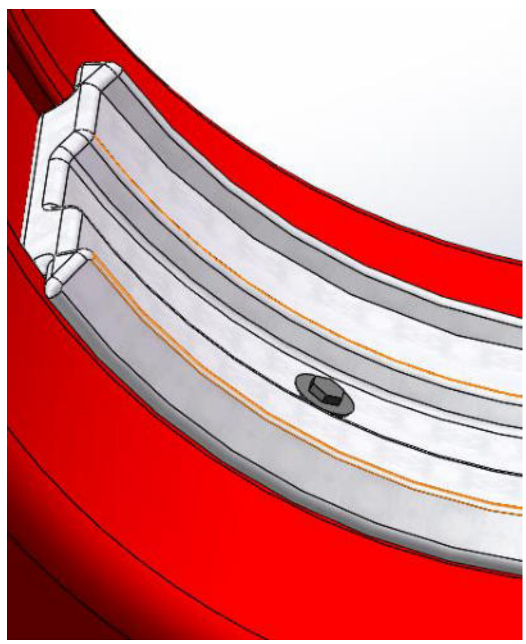


3. Mounting of reducers (if applicable)

Components sequence:

- PE reducer
- Washer Ø12x36 (x2 each reducer)
- Screw M12x35 (x2 each reducer)



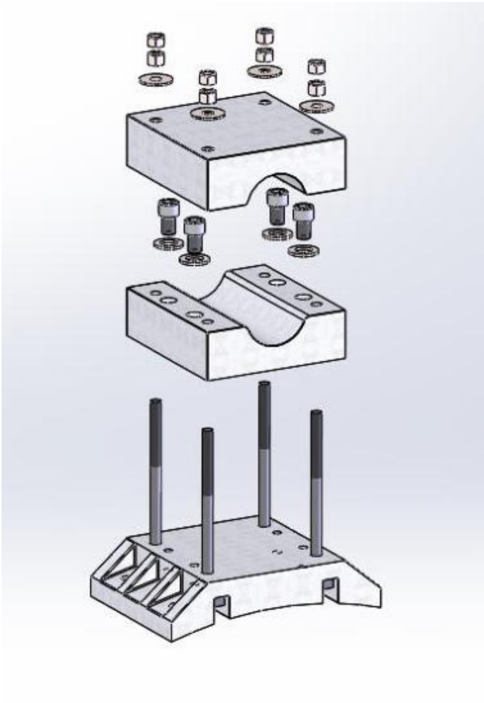
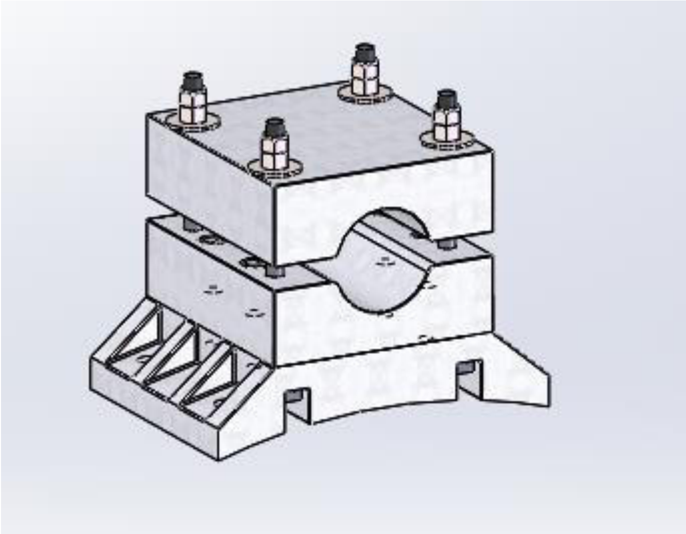


4. Mounting of umbilical (if applicable)

Components sequence, mounting of the umbilical:

- Threaded bar M16 (x4)
- Lower umbilical part
- Mid umbilical part
- Washer Ø12 (x4)

- Screw Socket head cap M12x100 (x4)
- Upper umbilical part
- Washer Ø16 (x4)
- Nut M16 (x4)
- Nut M16 (x4)

Components sequence, mounting of umbilical to the float:

- Washer Ø12 (x4)
- Screw M12x50 (x4)