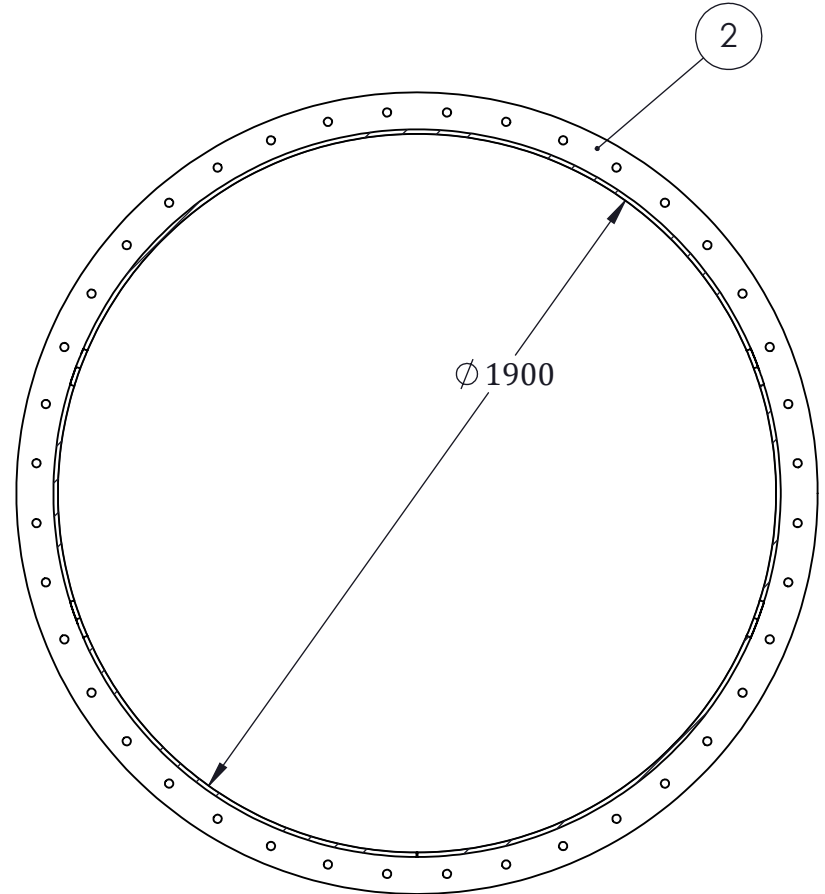
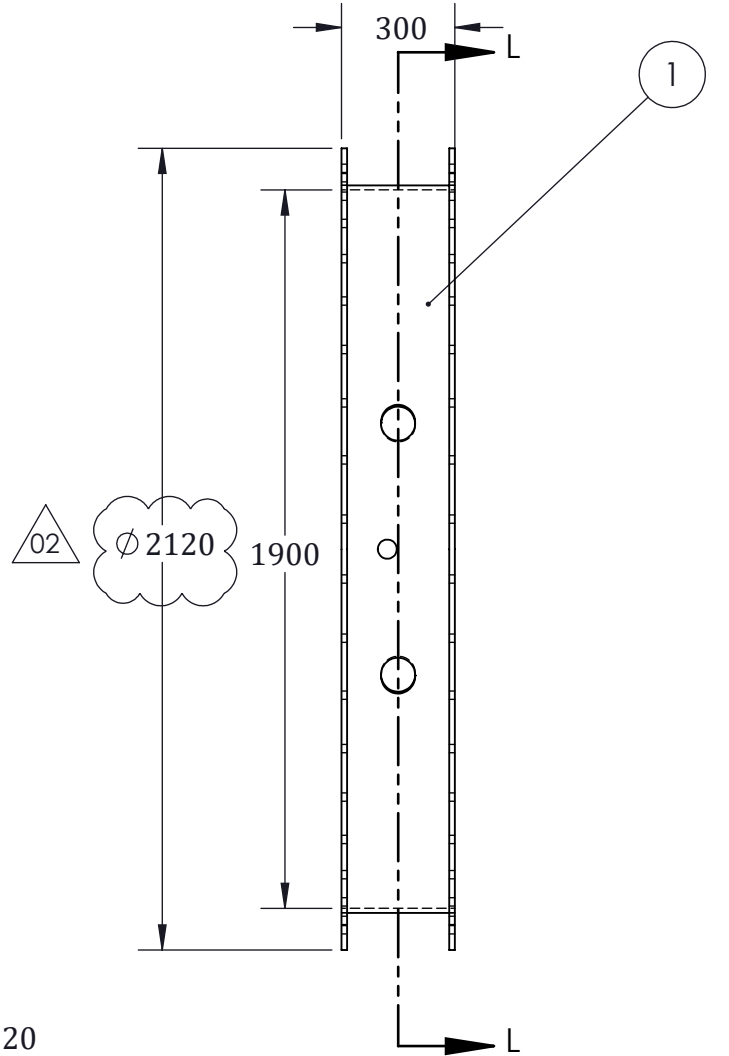
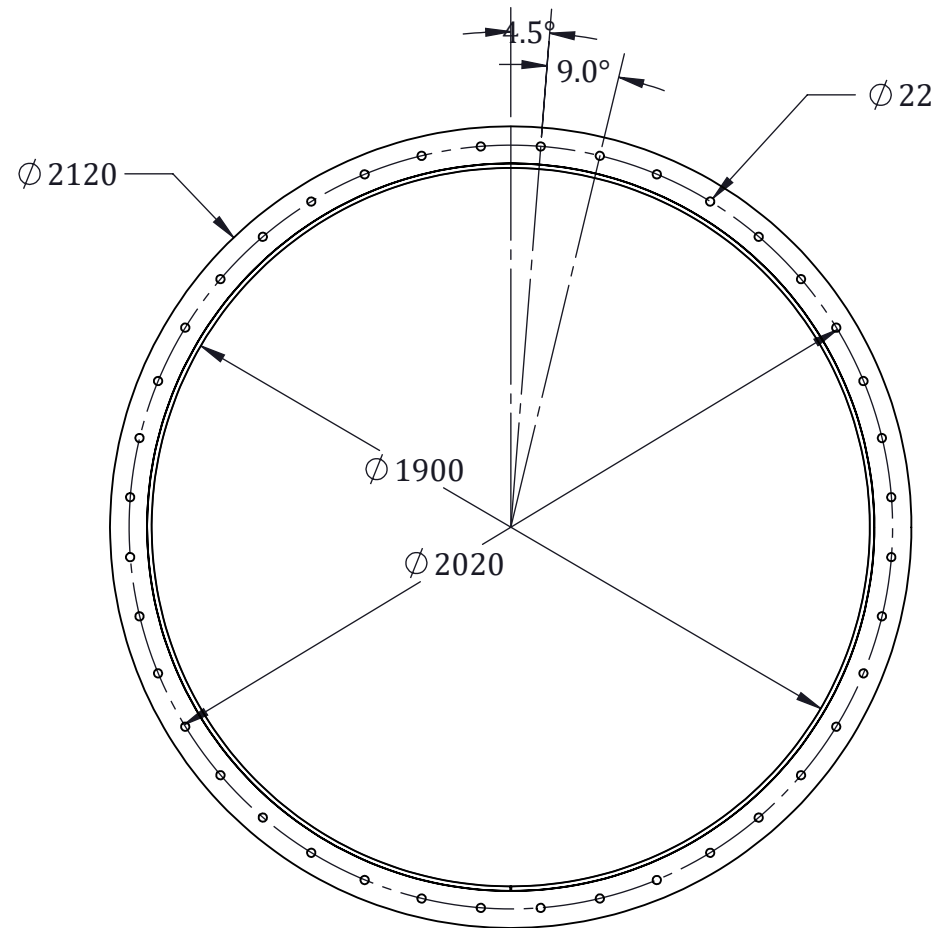


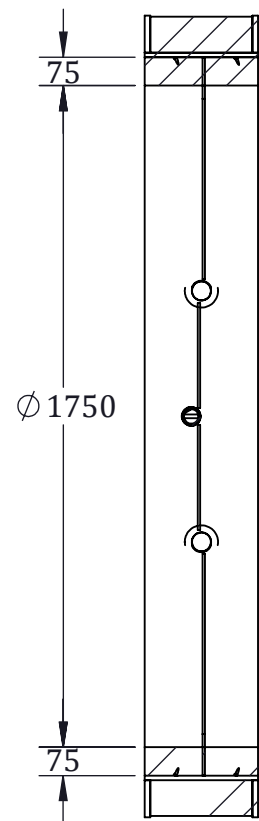
NOTES:  
(1) ALL DIMENSIONS ARE IN mm.

PART LIST FOR "ONE UNIT"						
Item NO	Part name	Description	Material	Weight	QTY	T. Weight
1	Damper ring	12 mm thk.	AS18-Gr 70	165.5	1	165.5
2	Frame flange	15 mm thk.	AS18-Gr 70	71.1	2	142.2
3	Arrest-V	6 mm thk.	AISI 304	4.2	2	8.4
4	Frame Stiffener	12 mm thk.	AS18-Gr 70	2.4	34	81.6
5	Frame Stiffener-2	12 mm thk.	AS18-Gr 70	1.9	2	3.8
6	Frame pipe	1 1/2" SCH80	AISI 304	10.7	1	10.7
7	Arrest-H	6 mm thk.	AISI 304	10.8	2	21.6
8	Refractory cement	75 mm thk.	Refractory cement	130.5	1	130.5
9	Bearing flange1	8 mm thk.	AS18-Gr 70	2.5	4	10
10	Bearing seat plate	8 mm thk.	AS18-Gr 70	4.5	4	18
11	Bearing (UC210)	UCF210			4	0
12	Bearing base plate Bolting (M14 x 50)	M14x50	Dacromet		16	0
13	Bearing S.P. bolting (M16 x40)	M16x40	Dacromet		16	0
14	Gland flange F	-	ASTM A36 Steel	3.46	4	13.84
15	Gland flange M	-	Cast Carbon Steel	2.11	4	8.44
16	gland packing	10x10	A-Glass Fiber	0.40	4	1.6
17	Gland Packing Bolting (M12x60)	M12x60	Dacromet		8	0
18	Microbearing flange1	8 mm thk.	AS18-Gr 70	2.5	4	10
19	Anchor	Ø6 mm	ASTM A36 Steel	0.0	80	0
20	Blade up plate	6 mm thk.	AISI 304	22.3	2	44.6
21	Blade bottom plate	6 mm thk.	AISI 304	26.6	2	53.2
22	Blade pipe	2" SCH80	AISI 304	11.4	2	22.8
23	Blade reinforce1	6 mm thk.	AISI 304	1.2	8	9.6
24	Blade reinforce2	6 mm thk.	AISI 304	1.5	8	12
25	Blade pipe bolting (M20 x 90)	M20x90	AISI 304		8	0
26	Blade shaft-1	Ø50	AISI 304	11.3	2	22.6
27	Blade shaft-2	Ø50	AISI 304	12.3	1	12.3
28	Shaft arm Bolt(S. head cap-M10 x 16)	M10x16	Dacromet		2	0
29	Driven shaft key	9x14x58	ASTM A36 Steel	0.05	1	0.05
30	Blade Seal bottom plate	2.5 mm thk.	AISI 304	0.7	4	2.8
31	Blade Seal plate	0.5 mm thk.	AISI 304	0.4	2	0.8
32	Blade Seal bottom plate-2	2.5 mm thk.	AISI 304	0.6	4	2.4
33	Blade Seal plate-2	0.5 mm thk.	AISI 304	0.3	2	0.6
34	Blade Seal bottom plate-3	2.5 mm thk.	AISI 304	0.1	8	0.8
35	Blade Seal plate-3	0.5 mm thk.	AISI 304	0.0	4	0
36	Blade seal plate bolting (M6 x25)	M6x25	AISI 304		60	0
37	Rotating Arm-L/S	See detail	ASTM A36 Steel	1.55	1	1.55
38	Blade shaft-3	Ø50	AISI 304	13.6	1	13
39	Rotating arm-L	-	ASTM A36 Steel	1.24	1	1.24
40	Driver Shaft key	9x14x118	ASTM A36 Steel	0.12	1	0.12
41	Adjustable rod	Pipe 3/4" SCH80	ASTM A106	0.64	1	0.64
42	Fix nut-LH	M16	ASTM A36		1	0
43	Fix nut-RH	M16	ASTM A36		1	0
44	Adjusting nut-RH	M16	Dacromet		1	0
45	Adjusting nut-LH	M16	Dacromet		1	0
46	Fork lever LH	-	ASTM A36	0.90	1	0.9
47	Fork lever RH	-	ASTM A36	0.90	1	0.9
48	Fork lever Bolting-S (M16 x 70)	M16x70	Dacromet		2	0
49	Actuator bracket	6 mm thk.	ASTM A36 Steel	7.95	1	7.95
50	Actuator Bracket bolting(M16 x 35)	M16x35	Dacromet		4	0
51	Actuator mounting Bolt (M20 x 25)	M20x25	Dacromet		4	0
52	Positioner	Ex ia IIA T4		3	1	3
53	Positioner Bracket	3 mm thk.	ASTM A36 Steel	0.83	1	0.83
54	Actuator	Double acting	1050 Alloy	52.8	1	52.8
55	Actuator coupling	-	Mo40	3.45	1	3.45
56	Position Transmitter	Ex ia IIA T4			1	0
57	limit switch base plate	3 mm thk.	ASTM A36 Steel	0.6	1	0.6
58	limit switch-Ex	Ex ia IIA T4			1	0
59	limit switch-lever	-			1	0
Total Weight(kg)						897.71

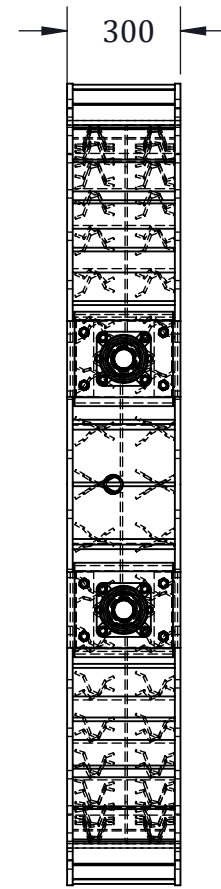
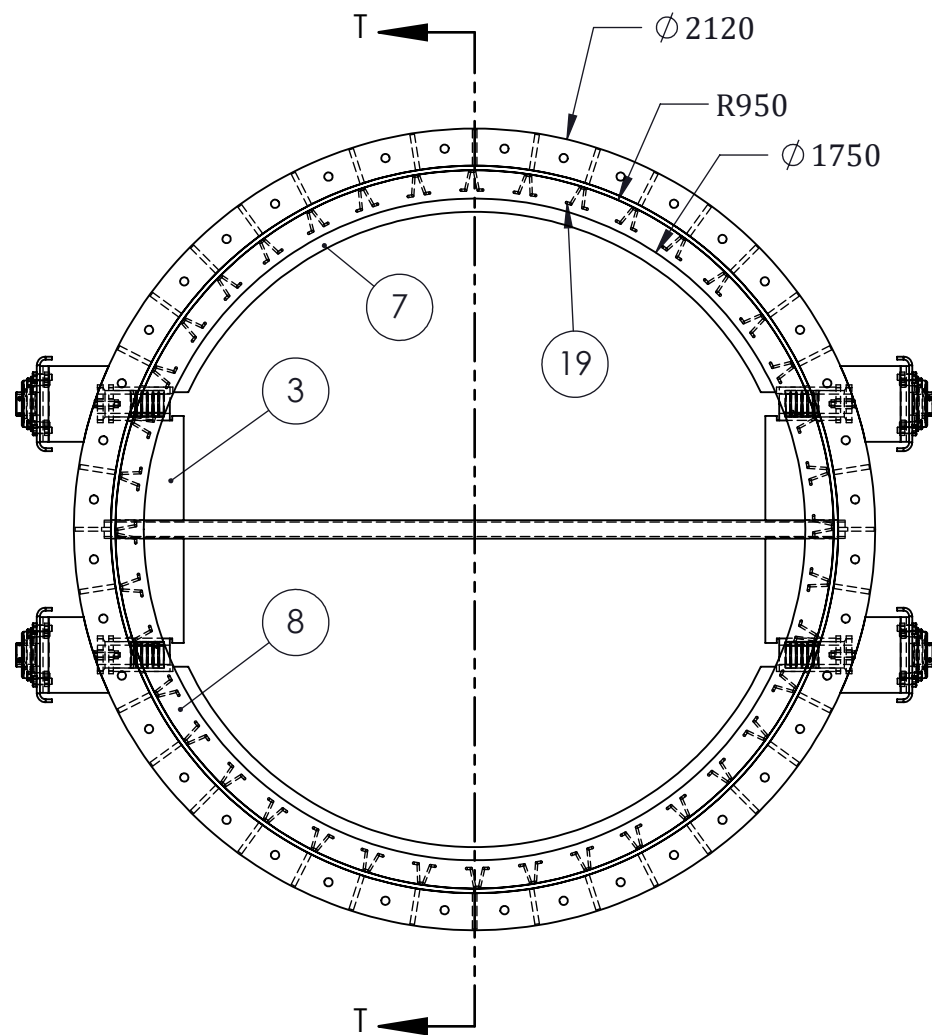
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1	12.18.2019	FOR APPROVAL	E.B	E.B	A.G
0	11.25.2019	FOR APPROVAL	E.B	E.B	A.G
REV.	DATE	DESCRIPTION	BY	BY	BY
OWNER:  PALAYESH PARSIAN SEPEHR CO.					
PROJECT: PARSIAN C2+ RECOVERY & FRACTIONATION PROJECT					
CONTRACTOR:   Technology Management					
PROJECT NO.: 2113					
VENDOR:  Technology Management					
PROJECT NO.: 6013					
SUB-VENDOR:  CENTIGRADE IND. INC.					
TITLE: General Arrangement, Material Weight and Sectional Drawing For Damper Valve 1-PV-11617					
SCALE:	DRAWING NO.:			SIZE	REV.
SHEET: 1 of 3	1-VD-253-015-005			A3	02



SECTION L-L



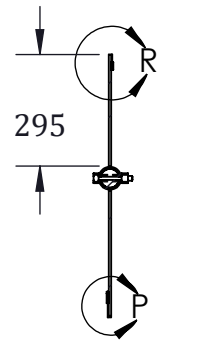
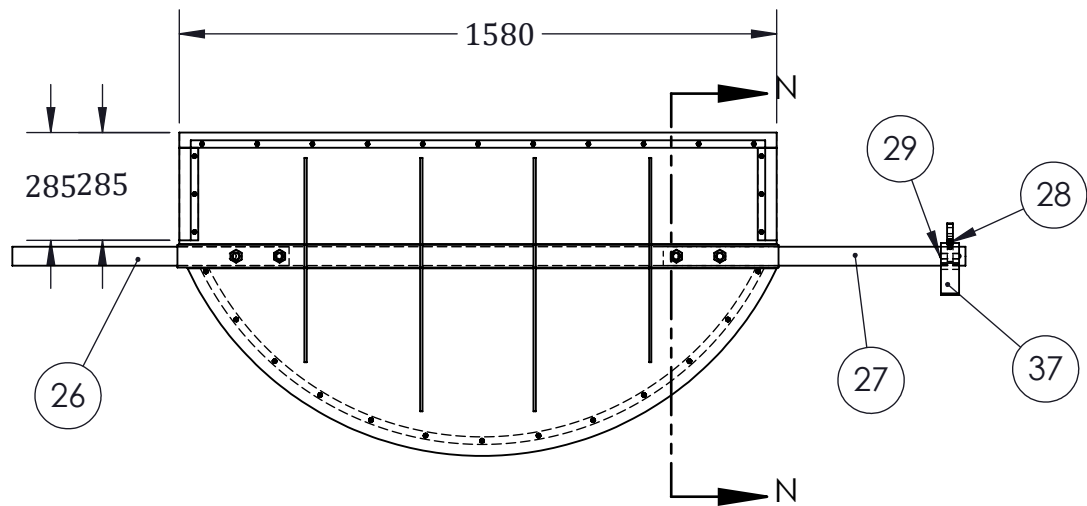
SECTION T-T



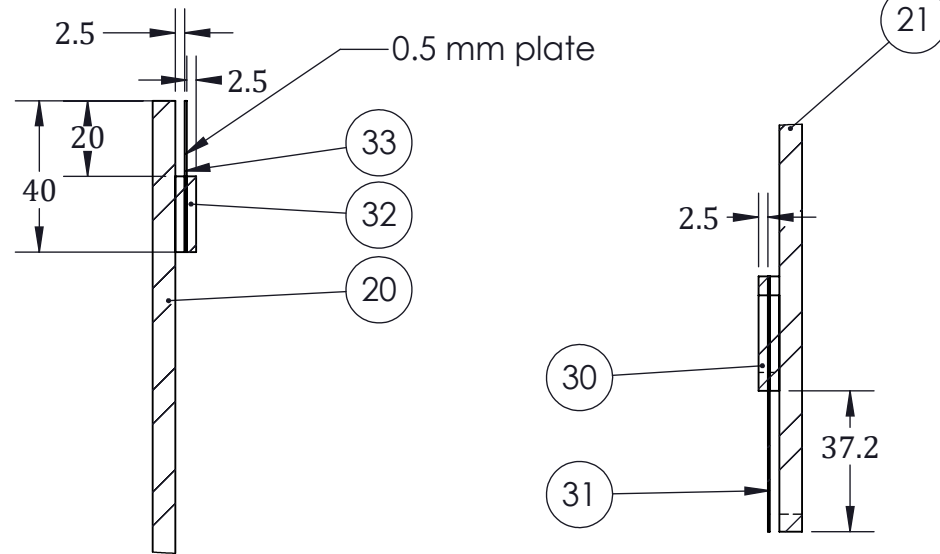
NOTES:

(1) ALL DIMENSIONS ARE IN mm.

2	12.29.2019	FOR APPROVAL	E.B	E.B	A.G
1	12.18.2019	FOR APPROVAL	E.B	E.B	A.G
0	11.25.2019	FOR APPROVAL	E.B	E.B	A.G
REV.	ISSUE	DESCRIPTION	BY	BY	BY
DATE					
OWNER: PALAYESH PARSIAN SEPEHR CO.					
PROJECT: PARSIAN C2+ RECOVERY & FRACTIONATION PROJECT					
CONTRACTOR: HEMCO Technology Management					
VENDOR: HEMCO Technology Management					
SUB-VENDOR: CENTIGRADE IND. INC.					
TITLE: General Arrangement, Material Weight and Sectional Drawing					
For Damper Valve 1-PV-11617					
SCALE:	DRAWING NO.: 1-VD-253-015-005			SIZE: A3	REV. 02
SHEET: 2 of 3					

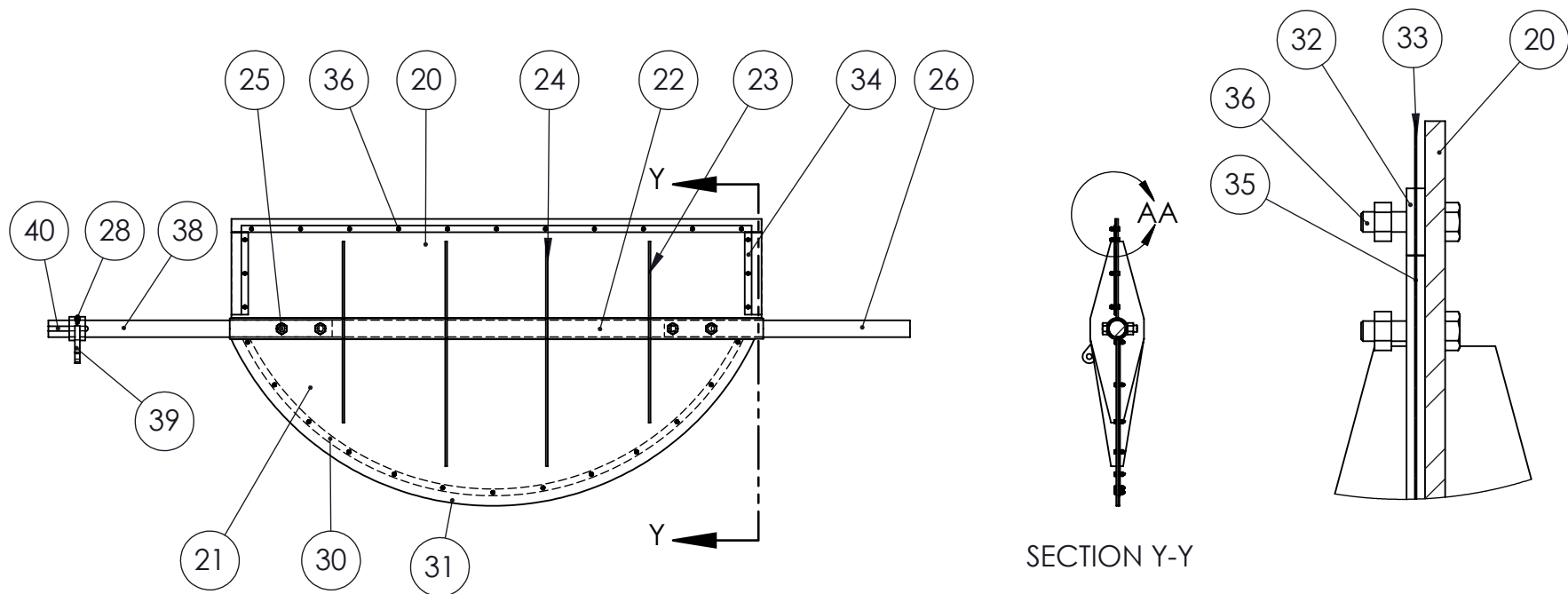


SECTION N-N



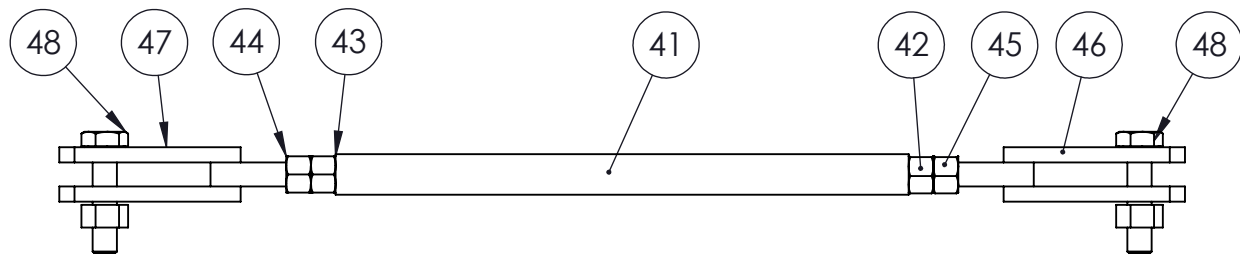
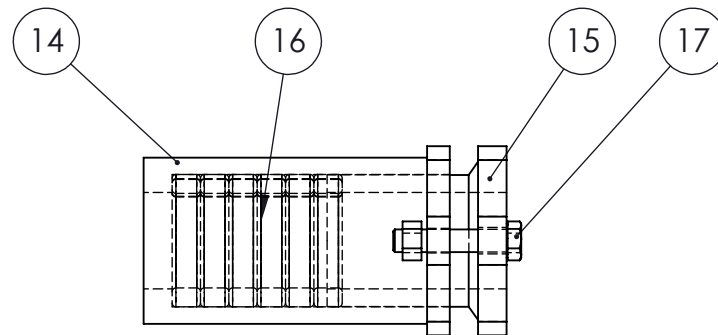
DETAIL R  
SCALE 1 : 2

DETAIL P  
SCALE 1 : 2







SECTION Y-Y

DETAIL AA  
SCALE 1 : 2



NOTES:

(1) ALL DIMENSIONS ARE IN mm.

2	12.29.2019	FOR APPROVAL	E.B	E.B	A.G
1	12.18.2019	FOR APPROVAL	E.B	E.B	A.G
0	11.25.2019	FOR APPROVAL	E.B	E.B	A.G
REV.	DATE	DESCRIPTION	BY	BY	BY
OWNER:  PALAYESH PARSIAN SEPEHR CO.					
PROJECT NO.: 2002					
PROJECT: PARSIAN C2+ RECOVERY & FRACTIONATION PROJECT					
CONTRACTOR:  Harpo Energy Corporation					
PROJECT NO.: 2113					
VENDOR:  HEIDOCO Technology Management					
PROJECT NO.: 6013					
SUB-VENDOR:  CENTIGRADE IND. INC.					
TITLE: General Arrangement, Material Weight and Sectional Drawing					
For Damper Valve 1-PV-11617					
SCALE:	DRAWING NO.:			SIZE	REV.
SHEET:	3 of 3 1-VD-253-015-005			A3	02

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