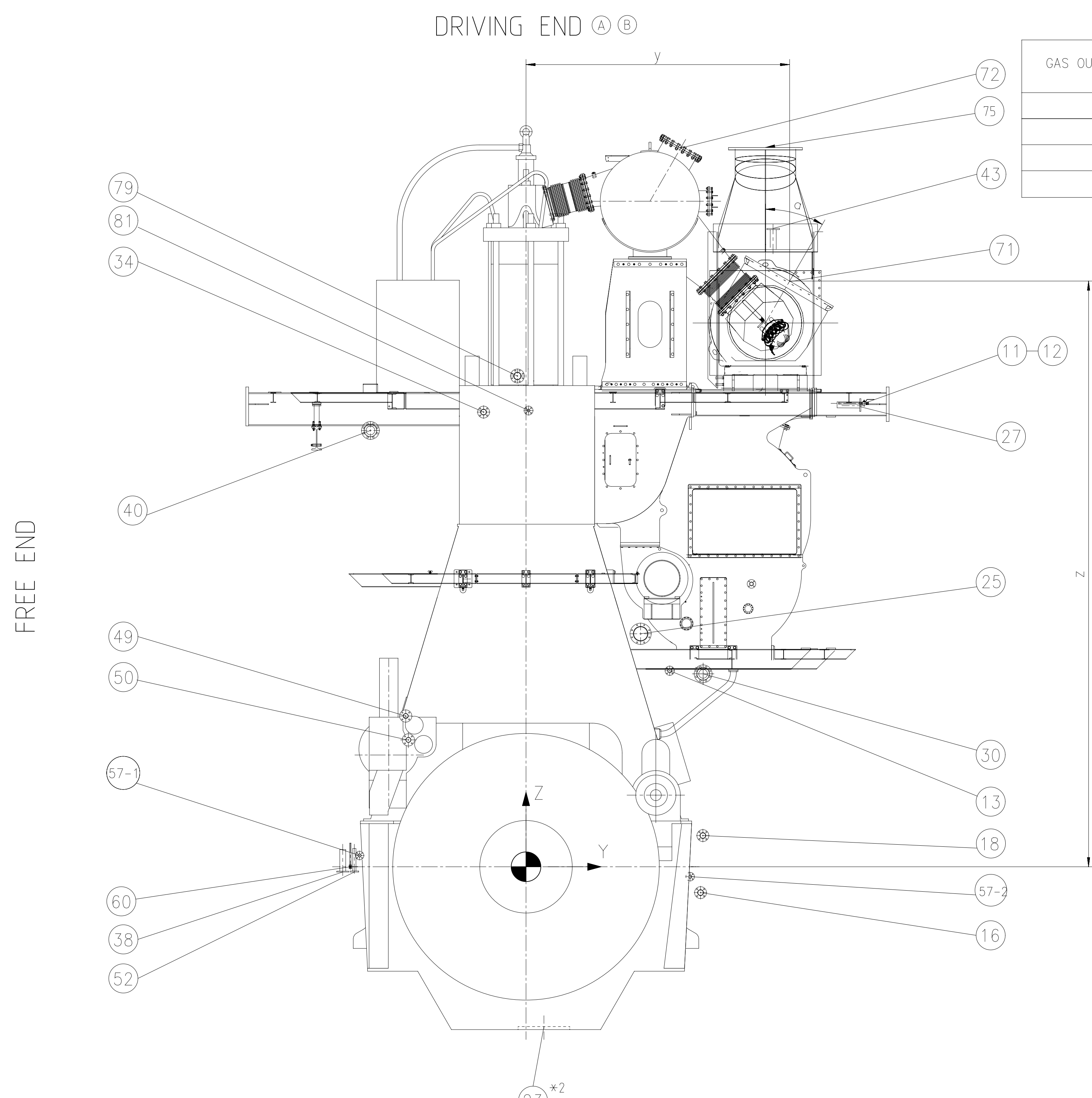
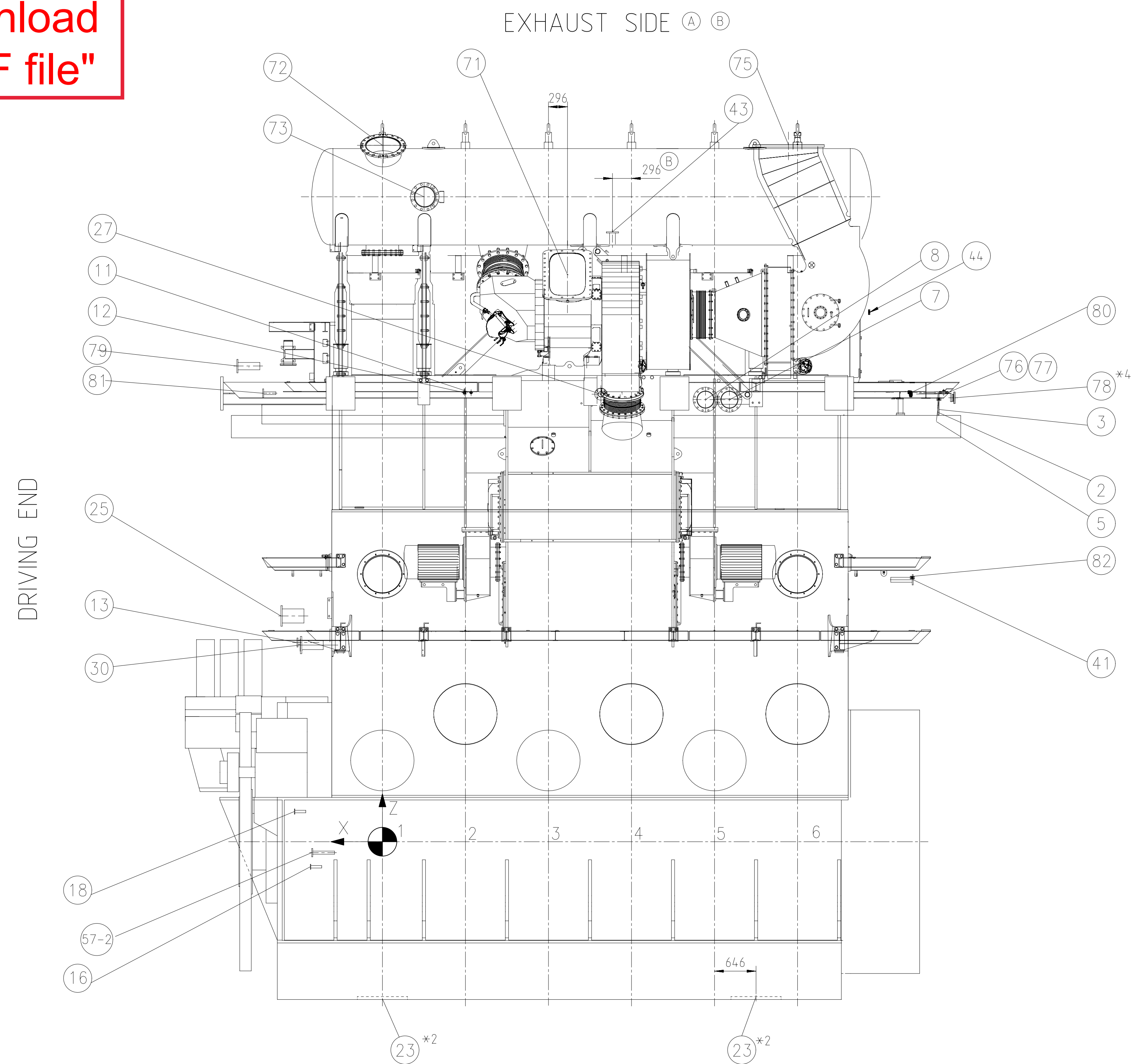



SEQ NO	QTY	Item ID	Item Name Dimension	Standard-ID	Basic Material	Net Weight
001	1	107.390.729.500	FLANGE DIMENSIONS			0.001
002	1	PAAD147122	FLANGE DIMENSIONS			0.01

Prod.	6 X72DF-2.1								
Change History	C	sna102	ihe003	28.07.2022	CNAA002231	YC 48 has been removed		4	3
	B	jpr101	sth017	12.05.2022	CNAA001854	YC has been updated according to updated piping DG		3	2
	A	jpr101	ihe003	15.03.2022	CNAA001597	YC has been updated according to new piping design		-	-
	-	jpr101	sth017	17.11.2021	CNAA000975	Main Design/Drawing Introduced		-	-
	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code	E

Bill Of Material	Dimension								
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	Main Design	Yes	Design Group		8020	Q-Code	XXXXX	Standard	WDS
	Qty per	Engine	A4	Item ID	PTAA017973		BOM Page/s	01/01	

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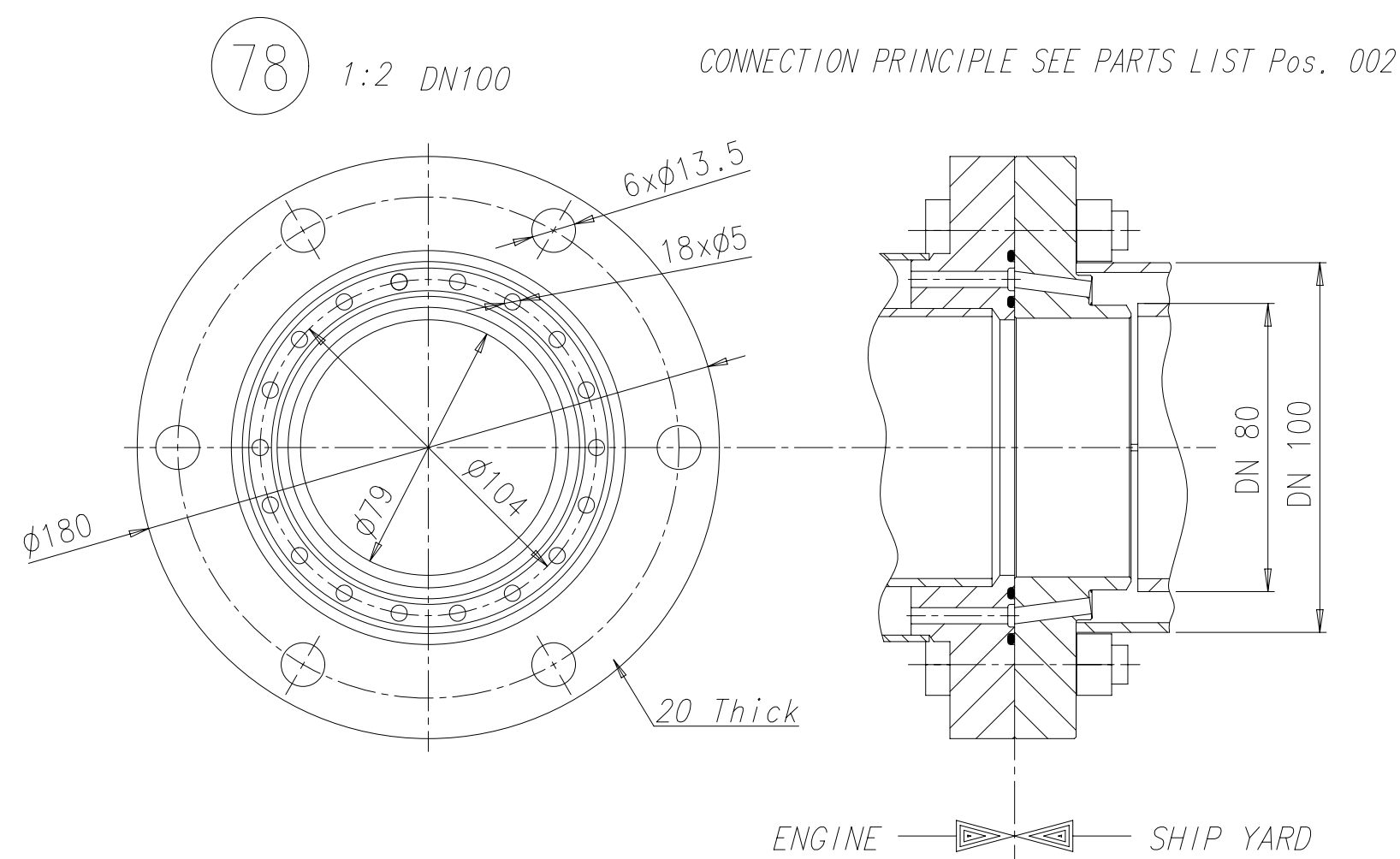
GAS OUTLET POSITION 	y	z
0°	3610.5	8929
15°	3799	8904
30°	3975.5	8831
45°	4127	8715

DIMENSIONS FOR REFERENCE ONLY. TECHNICAL MODIFICATIONS RESERVED.
LATER ADAPTATIONS ARE POSSIBLE BASED ON PROJECT REQUIREMENTS
AND RELATED DETAIL DESIGN.
THIS PIPE CONNECTION PLAN MAY NOT BE USED FOR FINAL DESIGN!

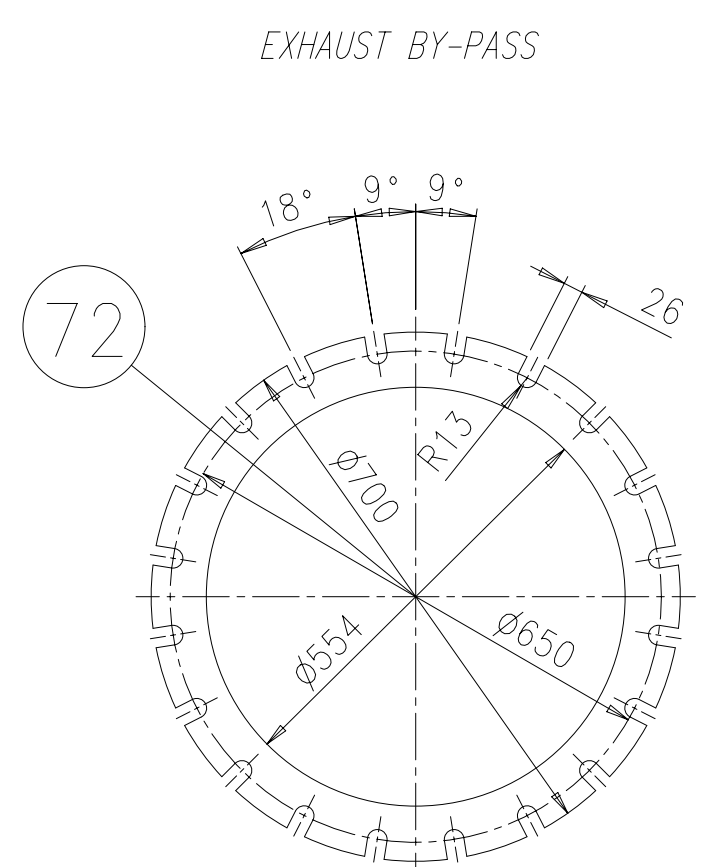
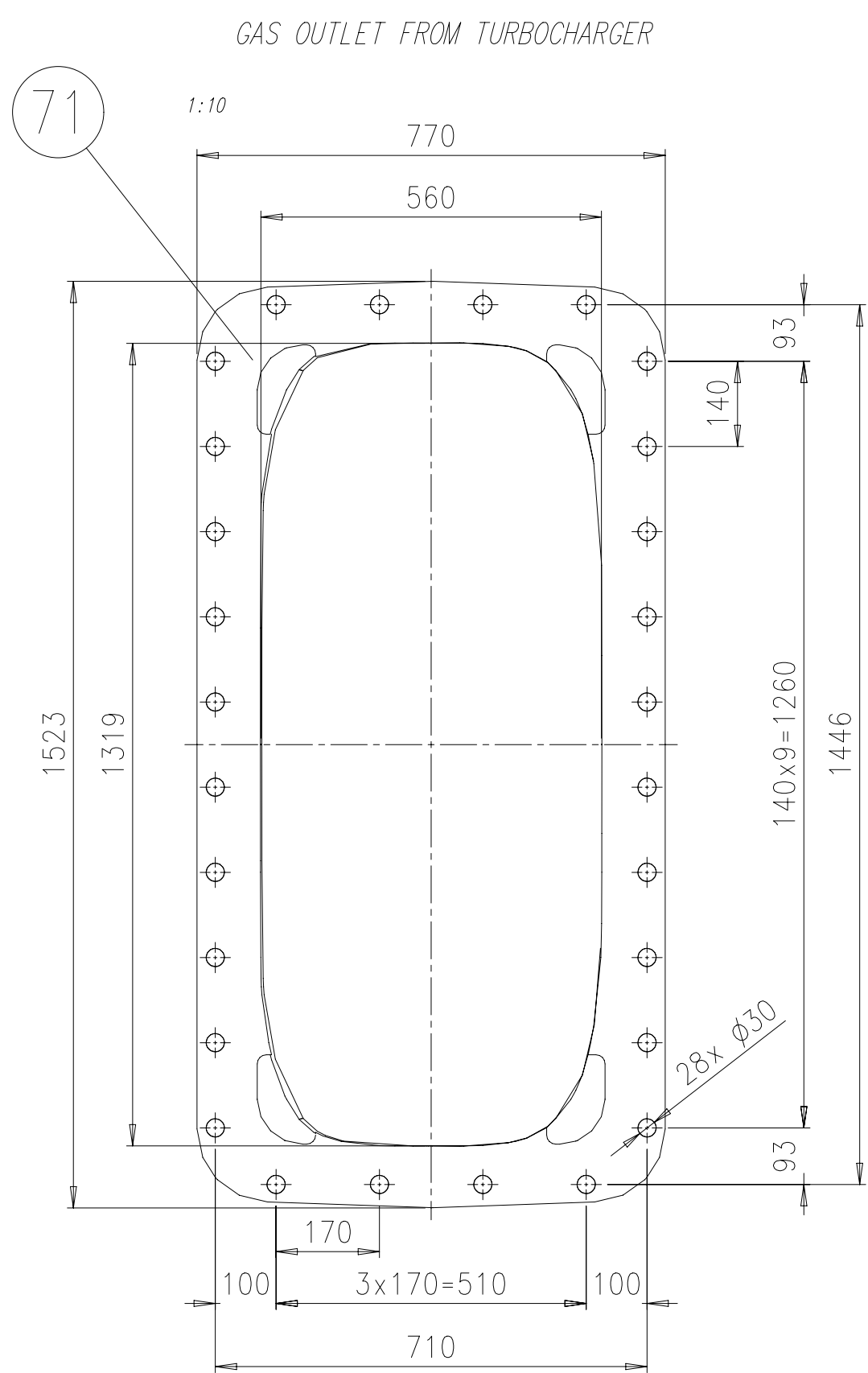
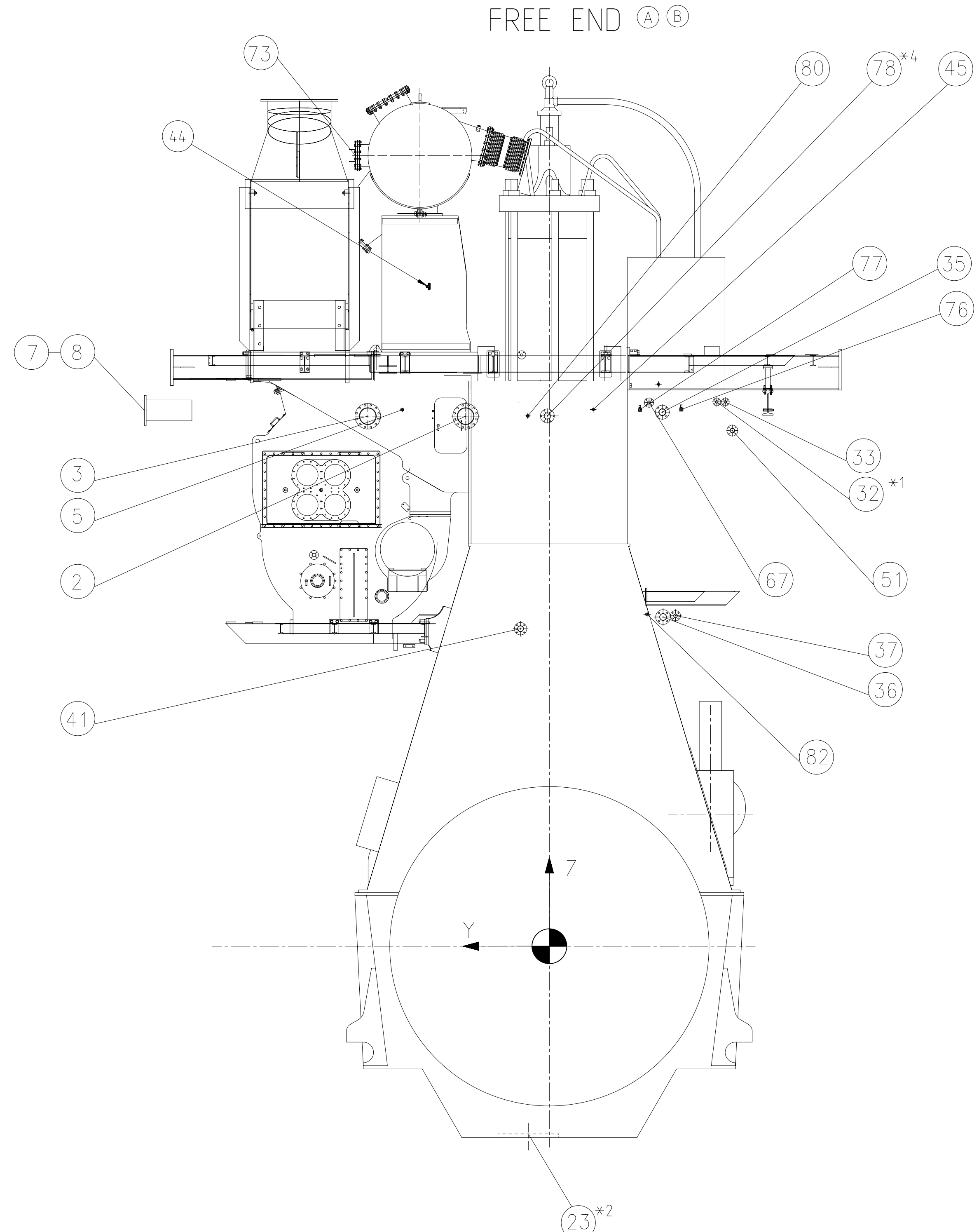
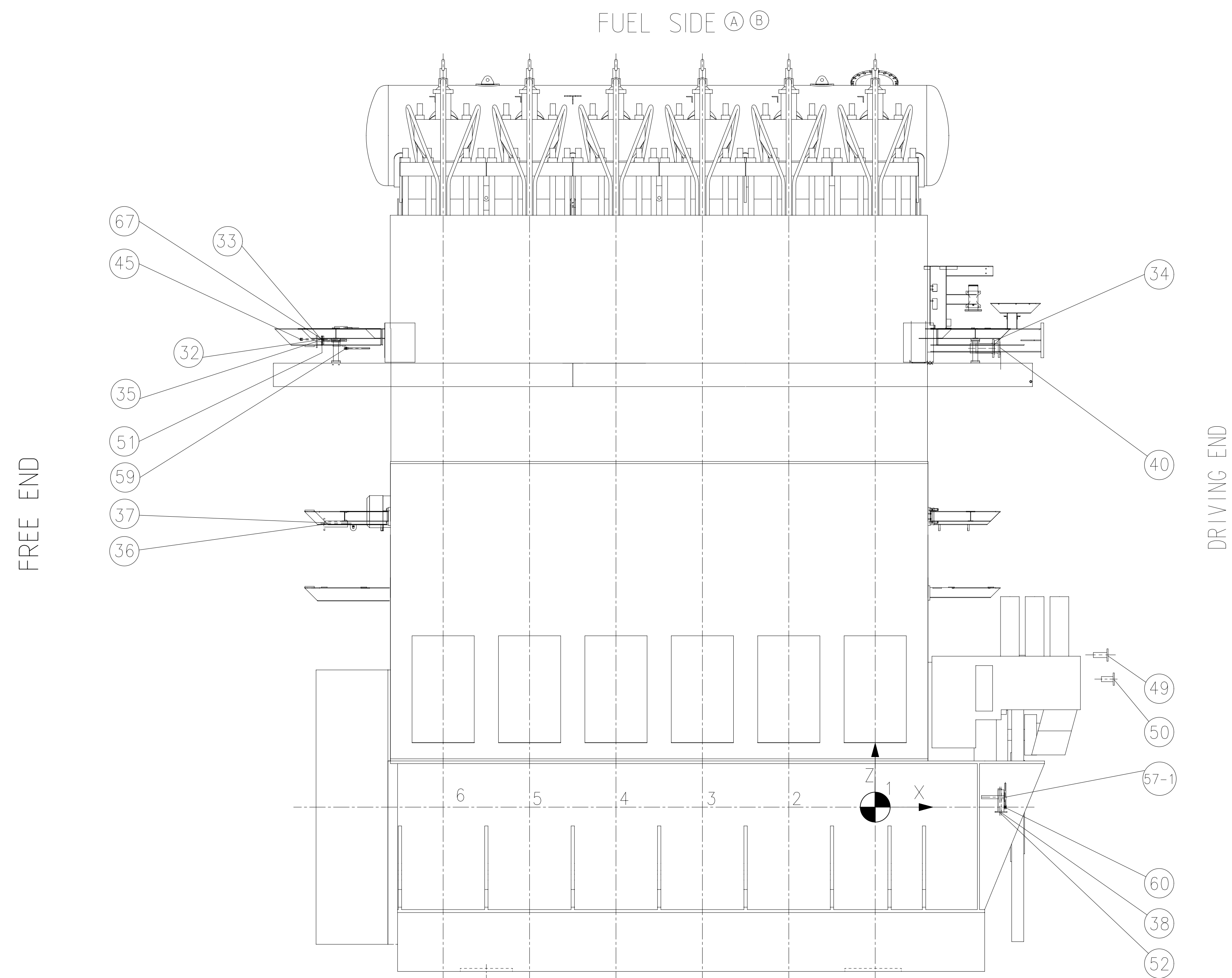
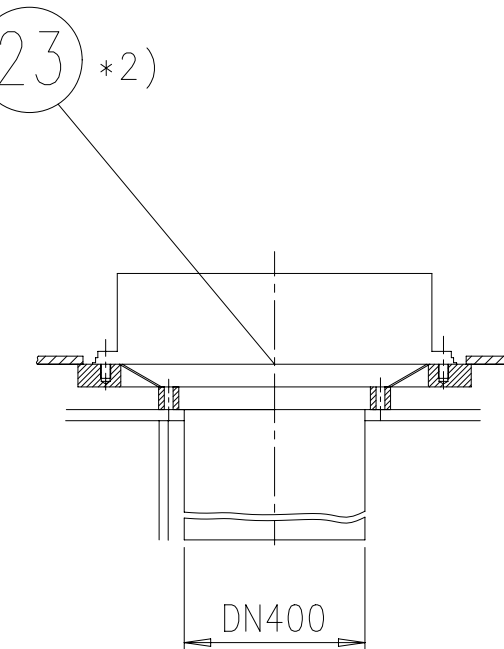
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES (BLIND), WITH EXCEPTION OF THE TURBO-CHARGER EXHAUST GAS OUTLET. BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

- *1) OPTIONAL EXECUTION (IF REQUIRED)
- *2) PROPOSAL. FINAL POSITION TO BE DETERMINED IN ACCORDANCE WITH SHIPYARD
- *3) EXTERNAL EXECUTION (IF REQUIRED)
- *4) INSTALLATION TOLERANCE ± 1 mm
COMPENSATOR HAS TO BE INSTALLED STRESS FREE



FOR VERTICAL LUB. OIL DRAIN
SEE GROUP 1110 / 9722



1 x A175-L
1 x A275-L

Part No.		6X72DF-2.1					
Change History	C	shd102	26.07.2022	CNA002231	YC 48 has been removed	4	3
	B	pr101	shd107	12.05.2022	CNA001954	YC has been updated according to updated piping DG	3
	A	pr101	shd103	15.03.2022	CNA001597	YC has been updated according to new piping design	-
	A	pr101	shd107	17.11.2021	CNA001975	Main Design/Drawing Introduced	-
Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Approved	Activity Code
							E C

WIN GD

Winter Gas & Diesel

separate BOM available

Scale: 1:40

Unit: mm

Material: XXXXX

Weight: 0.00t

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Units	mm	mm	mm	mm	mm
Main Design	Yes	Design Group	8020	Q-Code	XXXXXX
Engine	A0	Item ID	P TAA0017973		Drawing Page/s

Dimension

Basic Material

Net Weight

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ISO

PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				
6 bar	25	100	14	75	4	M10	11	16 bar	25	115	16	85	4	M12	14	
	32	120	16	90	4	M12	14		32	140	18	100	4	M16	18	
	40	130	16	100	4	M12	14		40	150	18	110	4	M16	18	
	50	140	16	110	4	M12	14		50	165	19	125	4	M16	18	
	65	160	16	130	4	M12	14		65	185	20	145	8	M16	18	
	80	190	18	150	4	M16	18		80	200	20	160	8	M16	18	
	100	210	18	170	4	M16	18		100	220	22	180	8	M16	18	
	125	240	20	200	8	M16	18		125	250	22	210	8	M16	18	
	150	265	20	225	8	M16	18		150	285	24	240	8	M20	22	
	200	320	22	280	8	M16	18		200	340	26	295	12	M20	22	
	250	375	24	335	12	M16	18		250	405	32	355	12	M24	26	
	300	440	24	395	12	M20	22		300	460	32	410	12	M24	26	
	350	490	26	445	12	M20	22		350	520	35	470	16	M24	26	
	400	540	28	495	16	M20	22		400	580	38	525	16	M27	30	
	450	595	30	550	16	M20	22		450	640	42	585	20	M27	30	
	500	645	30	600	20	M20	22		500	715	46	650	20	M30	33	
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				
10 bar	25	115	16	85	4	M12	14	40 bar	25	115	16	85	4	M12	14	
	32	140	18	100	4	M16	18		32	140	18	100	4	M16	18	
	40	150	18	110	4	M16	18		40	150	18	110	4	M16	18	
	50	165	19	125	4	M16	18		50	165	20	125	4	M16	18	
	65	185	20	145	8	M16	18		65	185	22	145	8	M16	18	
	80	200	20	160	8	M16	18		80	200	24	160	8	M16	18	
	100	220	22	180	8	M16	18		100	235	26	190	8	M20	22	
	125	250	22	210	8	M16	18		125	270	28	220	8	M24	26	
	150	285	24	240	8	M20	22		150	300	30	250	8	M24	26	
	200	340	24	295	8	M20	22		200	375	36	320	12	M27	30	
	250	395	26	350	12	M20	22		250	450	44	385	12	M30	33	
	300	445	26	400	12	M20	22		300	515	48	450	16	M30	33	
	350	505	28	460	16	M20	22		350	580	54	510	16	M33	36	
	400	565	32	515	16	M24	26		400	660	60	585	16	M36	39	
	450	615	38	565	20	M24	26									
	500	670	38	620	20	M24	26									

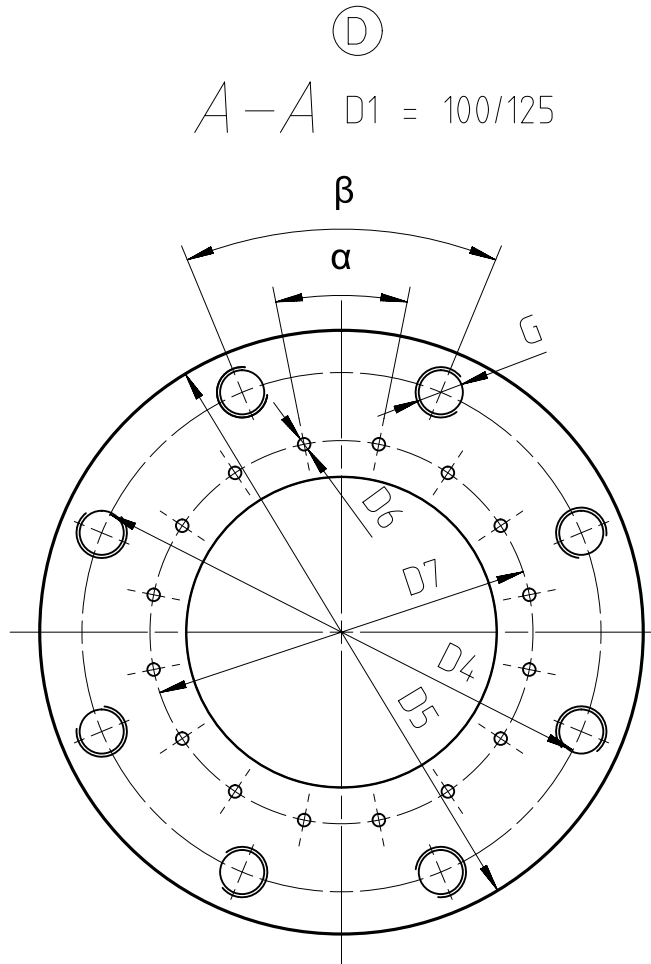
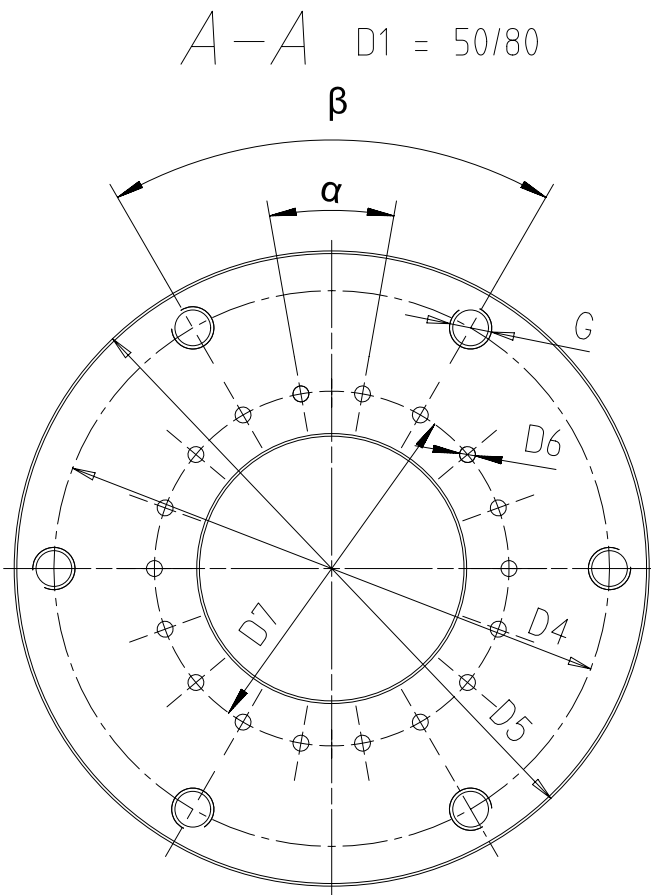
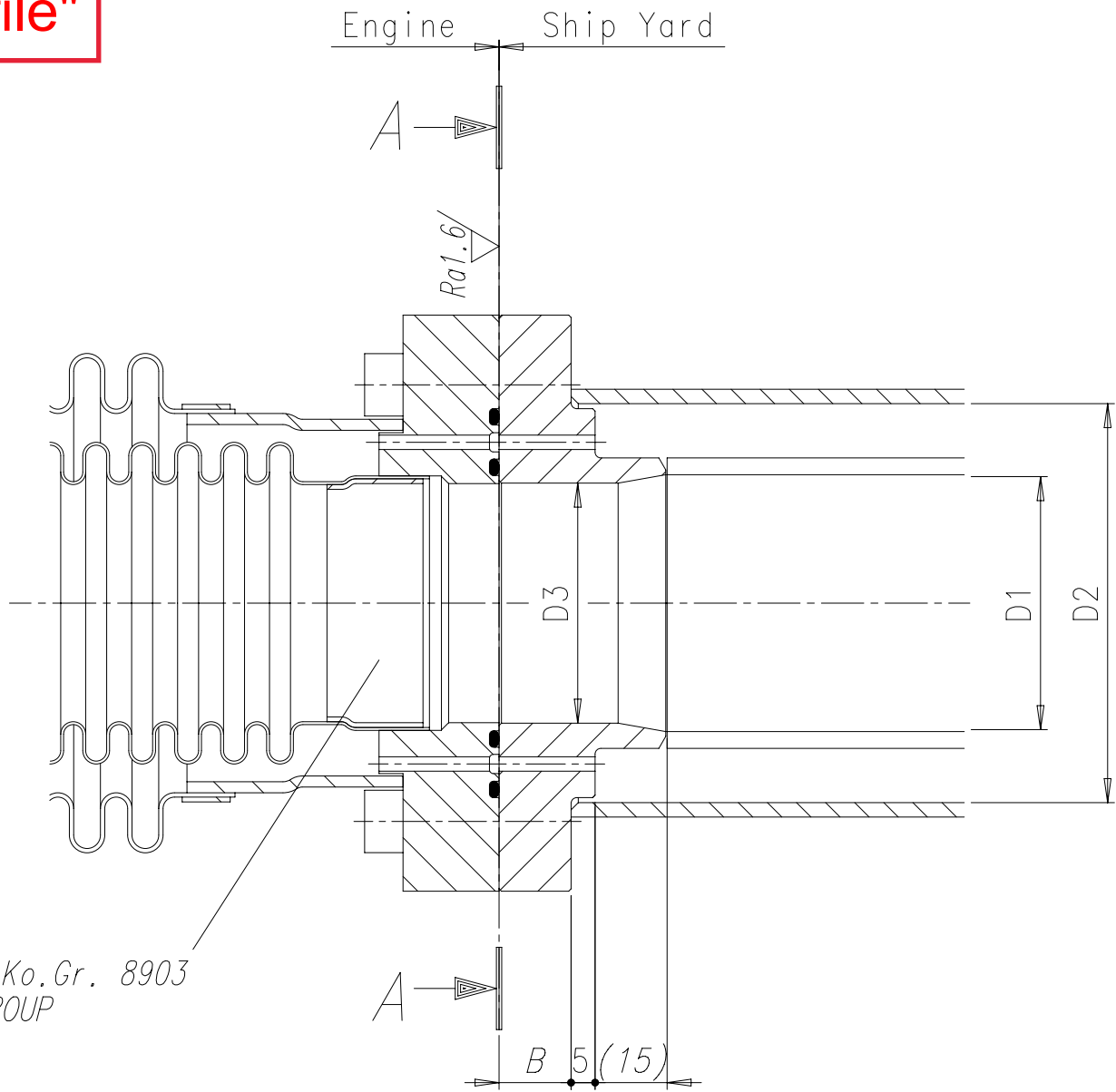
JIS

PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
5 bar	25	95	10	75	4	M10	12
	32	115	12	90	4	M12	15
	40	120	12	95	4	M12	15
	50	130	14	105	4	M12	15
	65	155	14	130	4	M12	15
	80	180	14	145	4	M16	19
	100	200	16	165	8	M16	19
	125	235	16	200	8	M16	19
	150	265	18	230	8	M16	19
	200	320	20	280	8	M20	23
	250	385	22	345	12	M20	23
	300	430	22	390	12	M20	23
	350	480	24	435	12	M22	25
	400	540	24	495	16	M22	25
	450	605	24	555	16	M22	25
	500	655	24	605	20	M22	25
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
10 bar	25	125	14	90	4	M16	19
	32	135	16	100	4	M16	19
	40	140	16	105	4	M16	19
	50	155	16	120	4	M16	19
	65	175	18	140	4	M16	19
	80	185	18	150	8	M16	19
	100	210	18	175	8	M16	19
	125	250	20	210	8	M20	23
	150	280	22	240	8	M20	23
	200	330	22	290	12	M20	23
	250	400	24	355	12	M22	25
	300	445	24	400	16	M22	25
	350	490	26	445	16	M22	25
	400	560	28	510	16	M24	27
	450	620	30	565	20	M24	27
	500	675	30	620	20	M24	27

PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
16 bar	25	125	14	90	4	M16	19
	32	135	16	100	4	M16	19
	40	140	16	105	4	M16	19
	50	155	16	120	8	M16	19
	65	175	18	140	8	M16	19
	80	200	20	160	8	M20	23
	100	225	22	185	8	M20	23
	125	270	22	225	8	M22	25
	150	305	24	260	12	M22	25
	200	350	26	305	12	M22	25
	250	430	28	380	12	M24	27
	300	480	30	430	16	M24	27
	350	540	34	480	16	M30	33
	400	605	38	540	16	M30	33
	450	675	40	605	20	M30	33
	500	730	42	660	20	M30	33
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
30 bar	25	130	20	95	4	M16	19
	32	140	22	105	4	M16	19
	40	160	22	120	4	M20	23
	50	165	22	130	8	M16	19
	65	200	26	160	8	M20	23
	80	210	28	170	8	M20	23
	100	240	32	195	8	M22	25
	125	275	36	230	8	M22	25
	150	325	38	275	12	M24	27
	200	370	42	320	12	M24	27
	250	450	48	390	12	M30	33
	300	515	52	450	16	M30	33
	350	560	54	495	16	M30	33
	400	630	60	560	16	M36	39

Substitute for:										PC	Q-Code	X	X	X	X	X
Modif	A	EAAD084180	04.10.2012													
		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date				
		Product W-2S				Flange Dimensions										
Made	19.09.2007	N. Brand			Main Drw.	Page 1 / 1	Material ID 107.390.729.500									
Chkd	27.09.2007	M. Frei			Design Group	Drawing ID 107.390.729										Rev A
Appd	27.09.2007	B. Haag			8020											

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Ra12,5 (✓)

Rohrleitungs Spezifikationen gemäss Ko.Gr.8903
PIPING SPECIFICATIONS ACCORDING GROUP

A		C		D							
D1	D2	D3	D4	D5	D6	D7	B	G	α	β	
DN	DN	mm	mm	mm	mm	mm	mm				
40	65										
50	80	47	105	120	3	67	15	M8	20°	60°	
80	100	79	155	180	5	104	20	M12	20°	60°	
100	125	95	174	200	5	125	20	M12	22.5°	45°	
125	150	127	206	240	5	152	25	M16	22.5°	45°	

C D E

F

D

Free space for lic.									Q-Code XXXXXX	Main Drw.		
									Standard ISO; JIS			
Modif.	C	EAAD087857	13.12.2017	D	EAAD090045	15.11.2018	E	EAAD090428	14.06.2019	F	EAAD095585	27.11.2020
		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date
WIN GD Winterthur Gas & Diesel				Product W-2S				FLANGE DIMENSIONS Flanschabmessungen				
Units	mm	kg	NX		Basic Material		Net Weight 0,01					
Made	17.10.2015	rs0x04 R.W.Sola		Scale	1:1	Size	A3	Page	1/1	Material	PAAD147122	
Chkd	04.09.2014	ihe003 Herceg		Design Group	8020	Drawing	DAAD045822			Rev.	F	
Appd	05.09.2014	bha009 Haag										

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

WinGD-6X72DF-2.1_Pipe Connection Plan

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-12-02	DRAWING SET	First web upload
2022-03-24	PTAA017973	Revised Pipe connection plan for Turbocharger type 1xA175-L and 1xA275-L have been updated.
2022-05-30	PTAA017973	Revised Pipe connection plan for Turbocharger type 1xA175-L and 1xA275-L have been updated.
2022-08-01	PTAA017973	Revised Pipe connection plan for Turbocharger type 1xA175-L/1xA275-L have been updated.

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