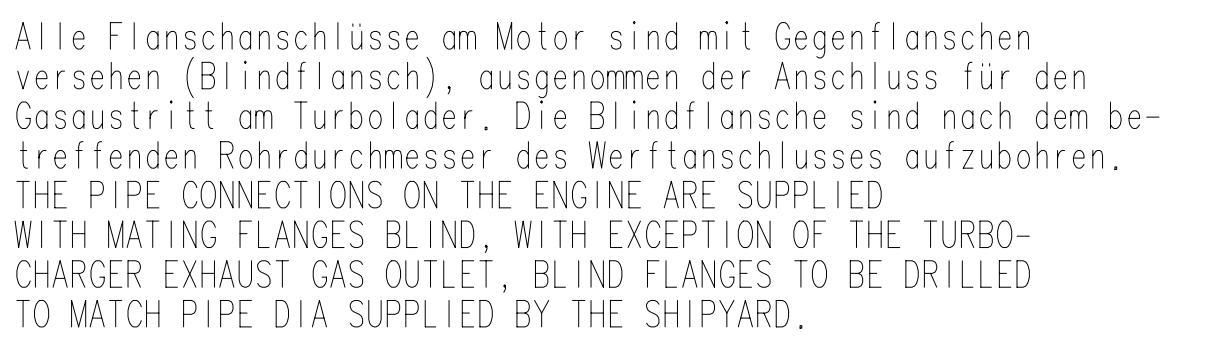
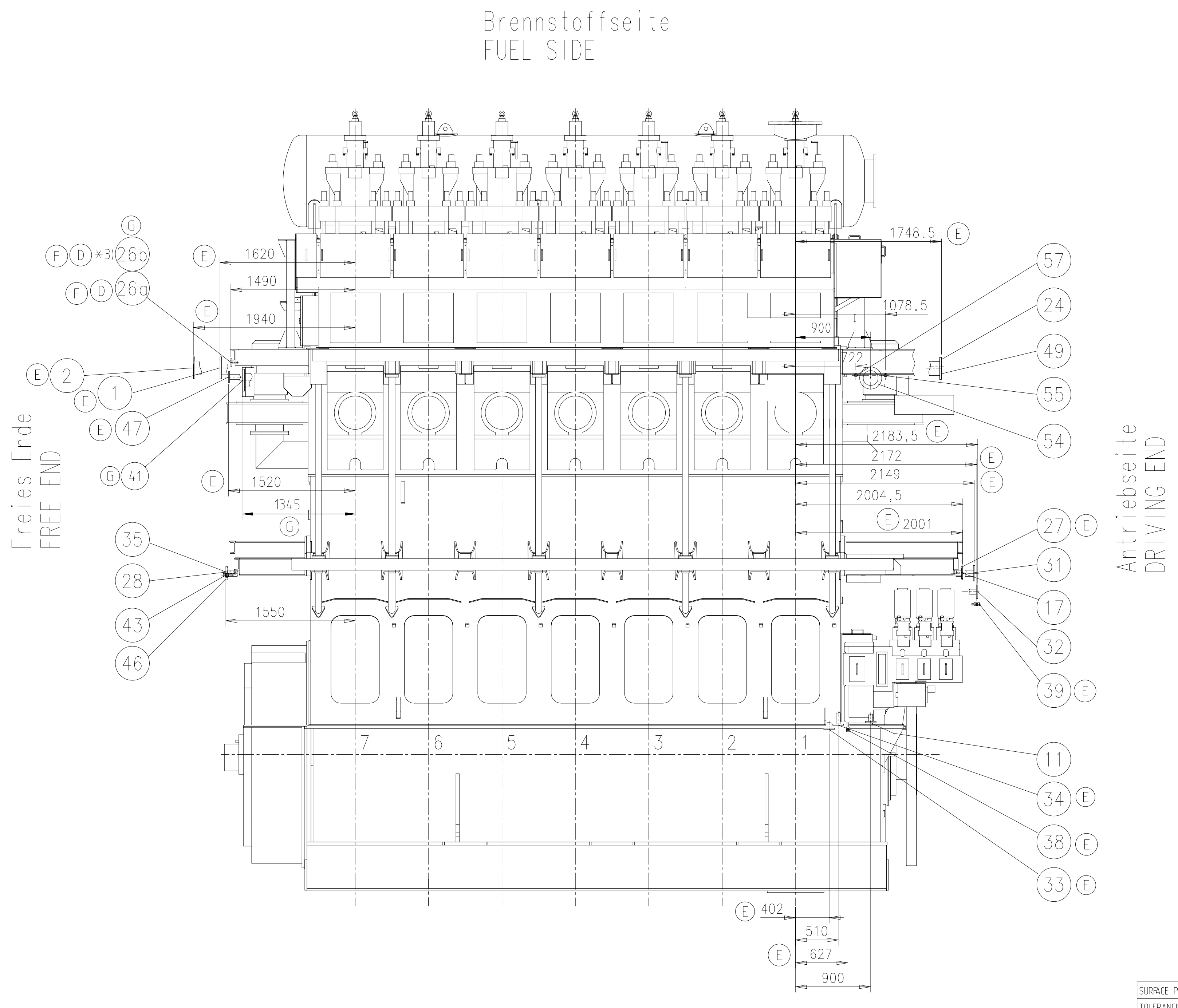




1 x A175

Technical drawing of a circular flange. The drawing shows a cross-section of the flange with various dimensions and labels. The outer diameter is 105. The inner diameter is 67. The thickness of the flange is 54. The flange has six mounting holes, each with a diameter of 6xφ9. The central hole has a diameter of 12xφ3. The flange is labeled with a circled '53' and a '1:2' scale. The text 'DN50/80' is also present. The word 'THICK' is written near the bottom left. The drawing is a technical drawing of a circular flange with dimensions and labels.

Anschlussprinzip siehe Stückliste Pos.002
CONNECTION PRINCIPLE SEE PARTS LIST

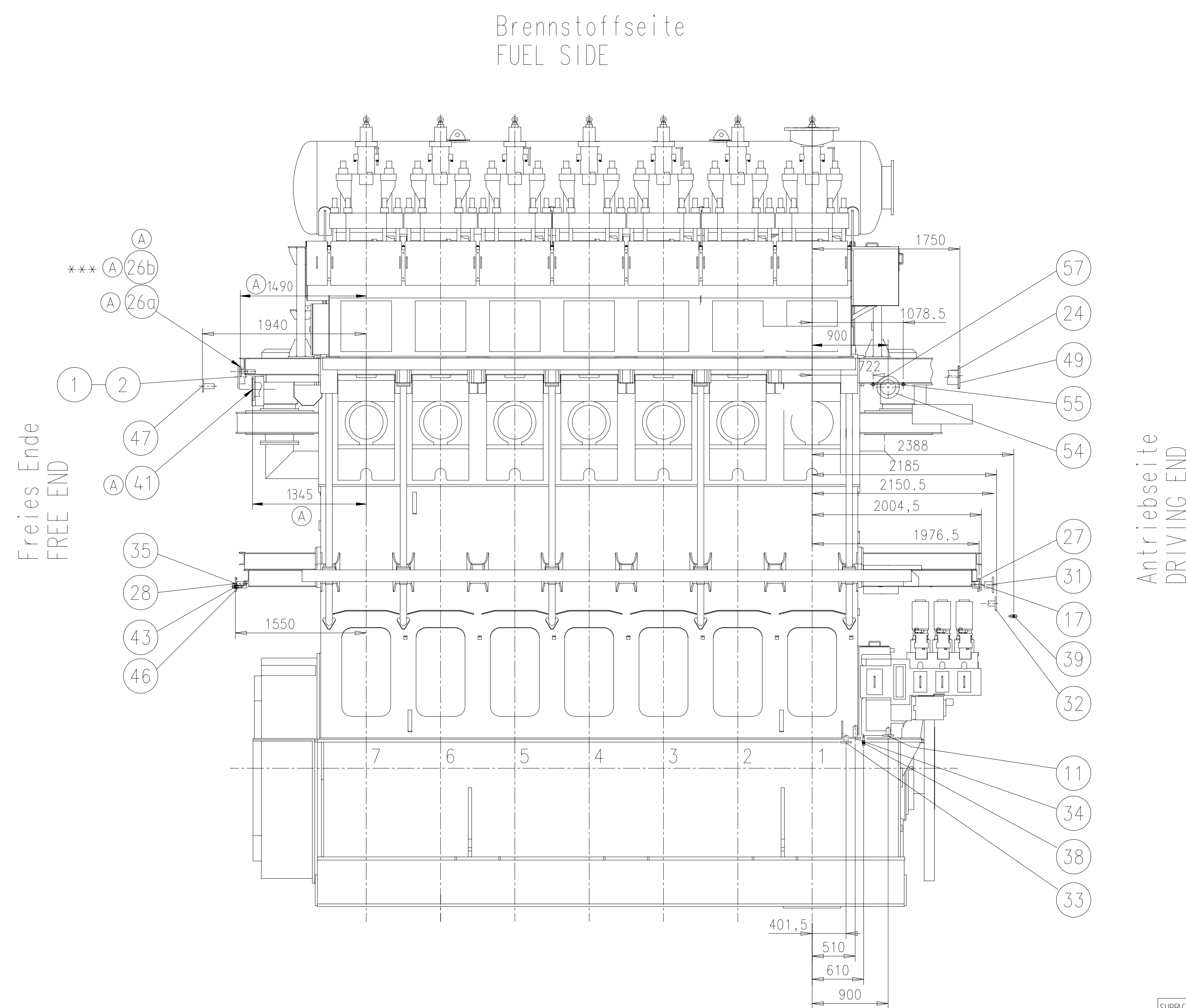
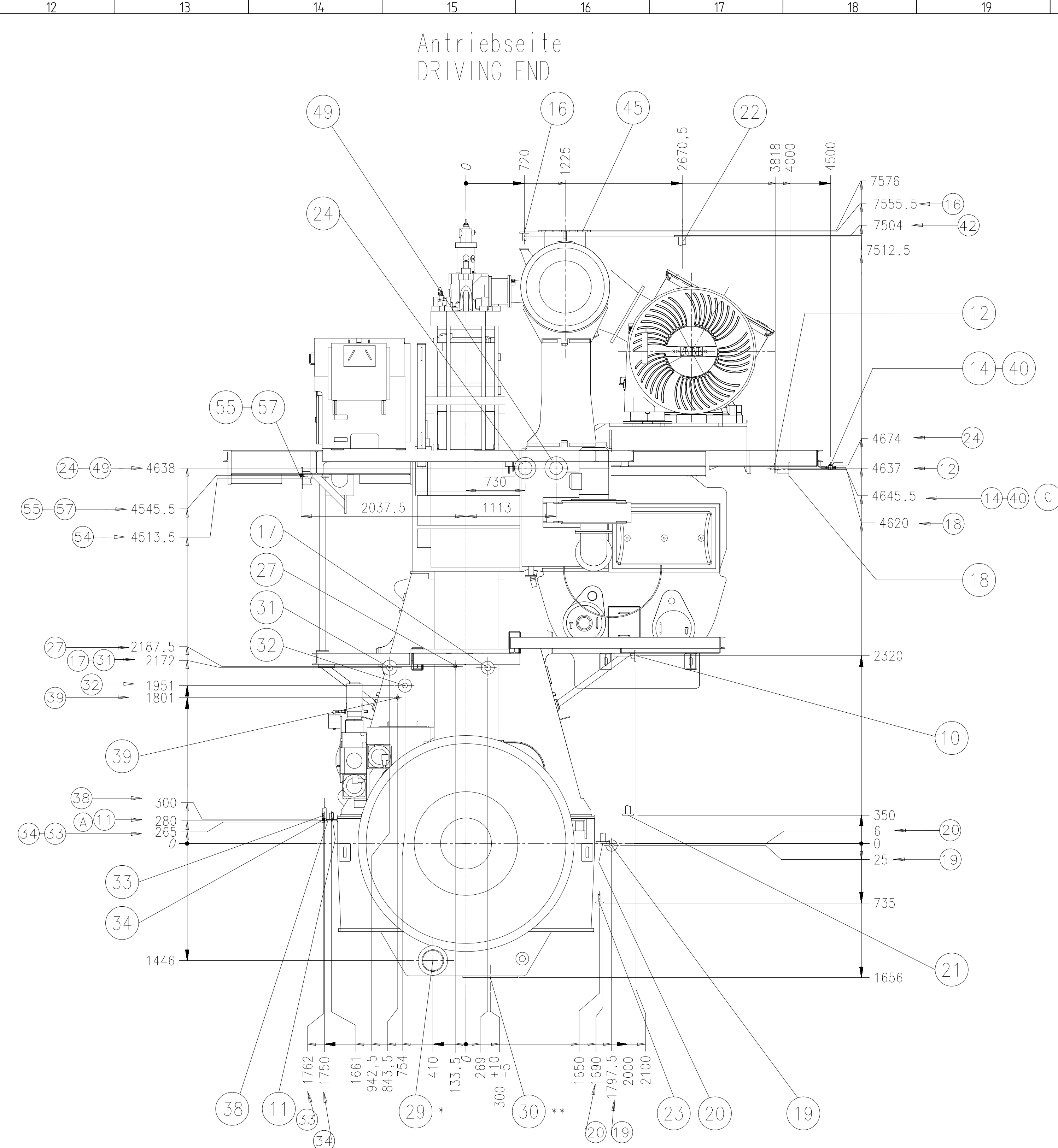
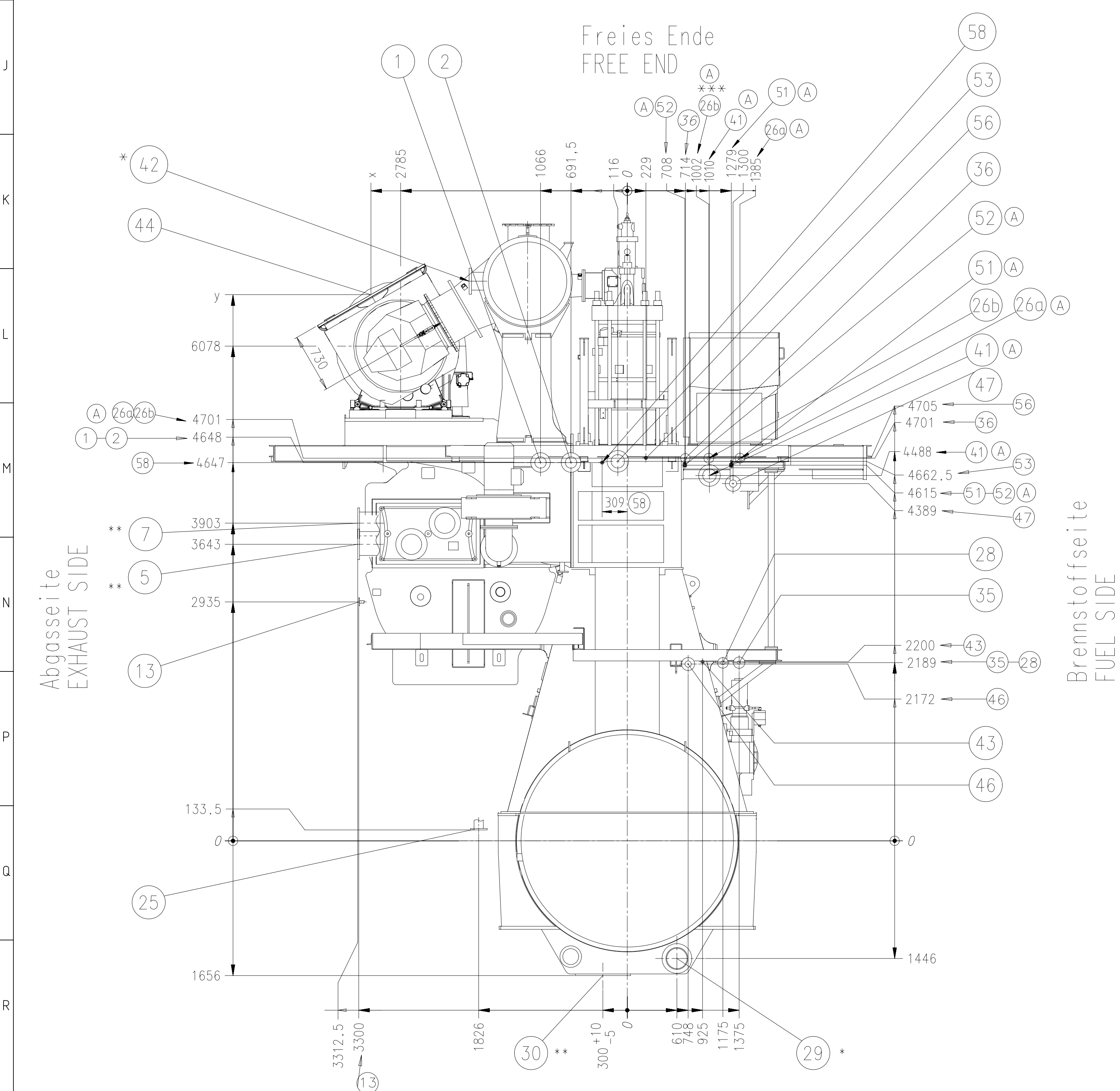
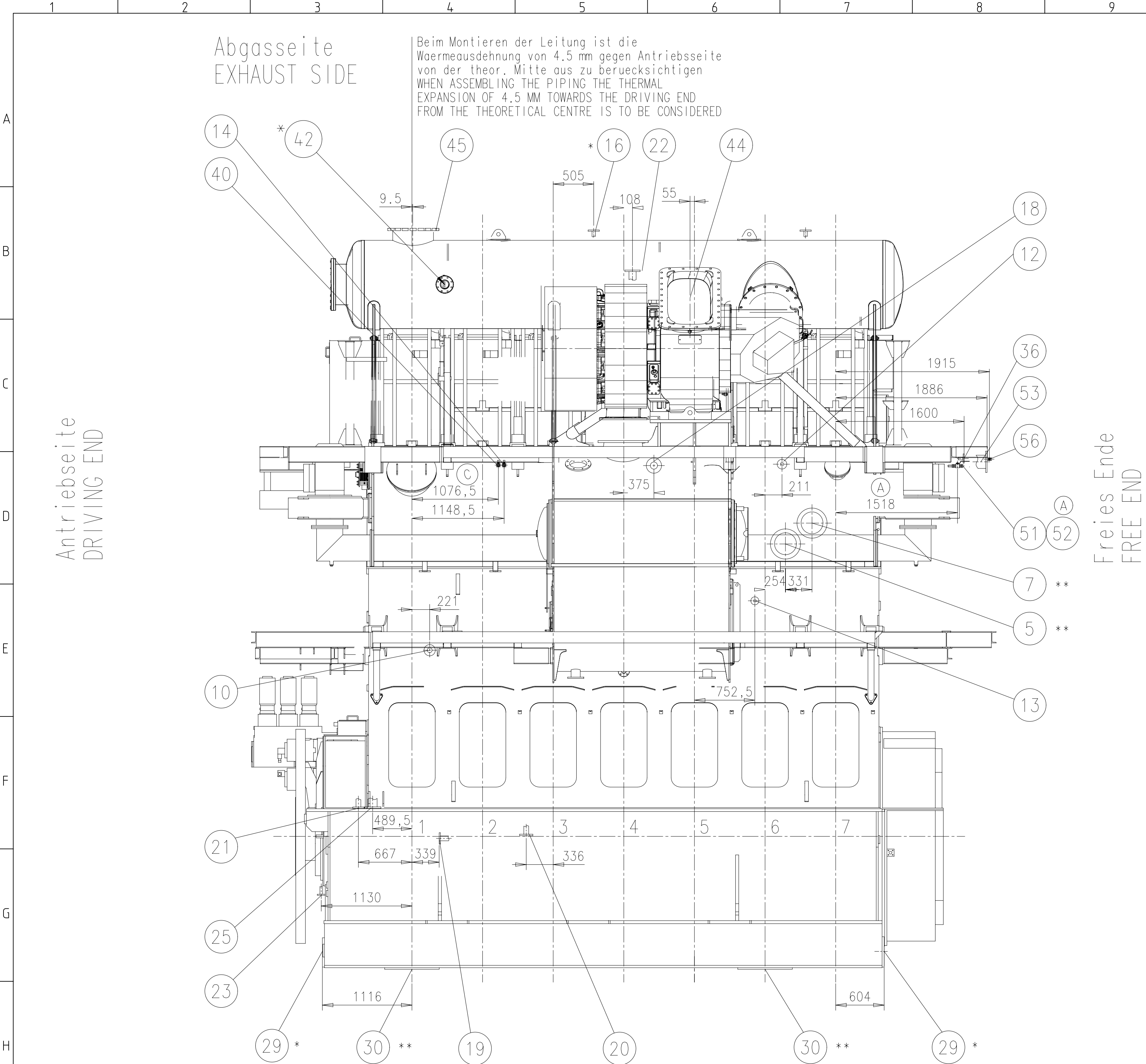


- *) 1) Final position to be defined by the shipyard in compliance with the specification in DG9722 ("Lubricating Oil System")
- *) 2) ONLY FOR INTEGRATED CYL. LUBRICATION AUTOMATIC TRANSFER (iCAT)
- *) 2) Standard-Ausführung
STANDARD EXECUTION
- *) 1) Optionale Ausführung (falls verlangt)
OPTIONAL EXECUTION (IF REQUIRED)

[illegible]

		Product 7RT-flex50DF		PIPE CONNECTION PLAN			
Rohranschlussplan							
Units mm kg NX		 Basic Material				Net Weight	
Made on 07.10.2015 rsax04 R.W.Sola		Scale 1:33		Size A0		Material 1/2	
Chgt 16.01.2015 mhx09 Libhart		Design Group 8020		Drawing 0		DAAD055300	
Appr 16.01.2015 bhs009 Haag						Rev. G	

DOWNLOAD
"DXF FILE"



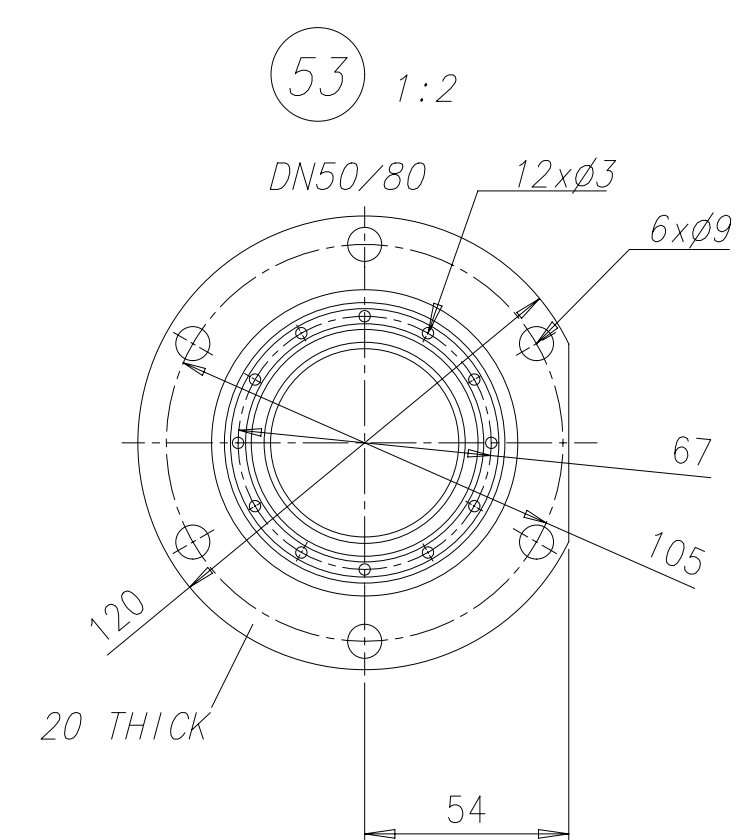
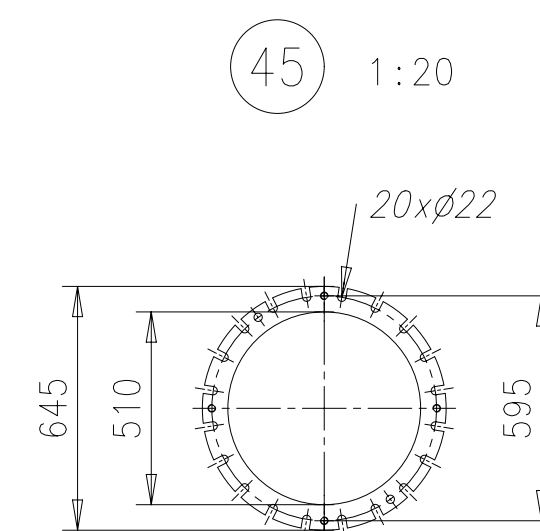
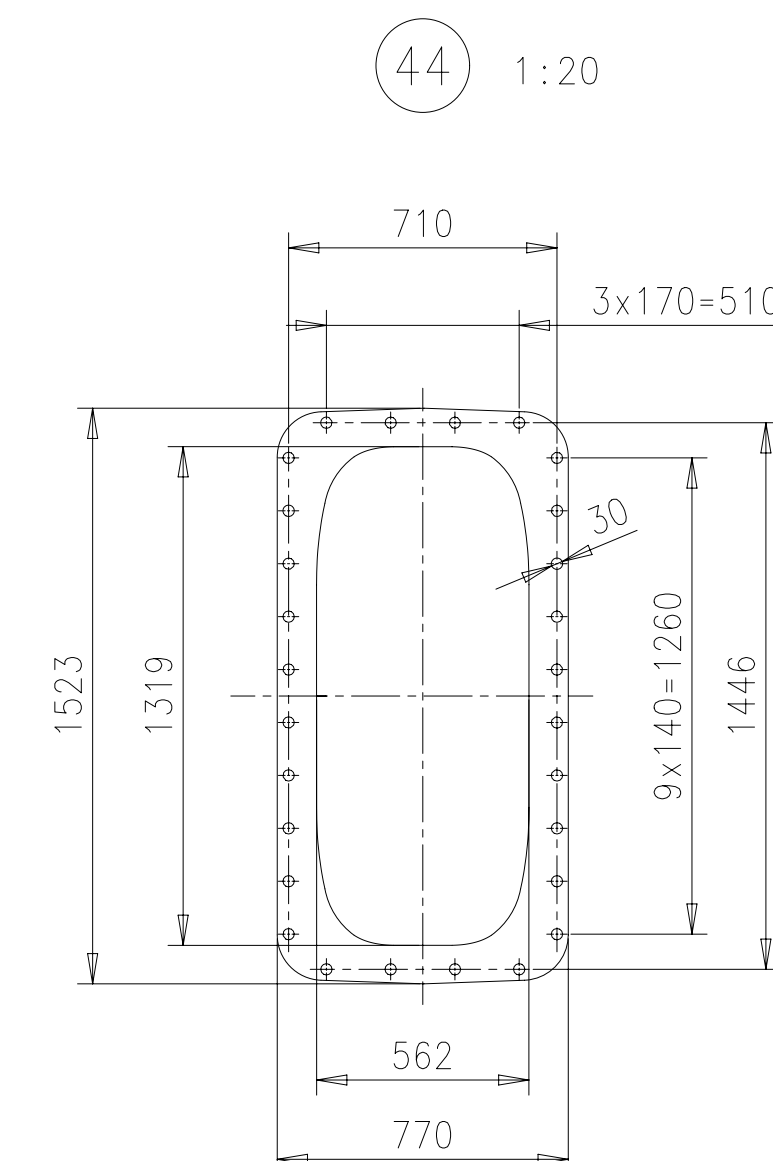
Alle Flanschanschlüsse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss für den Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Werftanschlusses aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES BLIND, WITH EXCEPTION OF THE TURBOCHARGER EXHAUST GAS OUTLET, BLIND FLANGES TO BE DRILLED TO MATCH PIPE DIA SUPPLIED BY THE SHIPYARD.

Die Gewindeanschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

1x A175-L

Gasaustritt-Stellung GAS OUTLET POSITION	x	y
15°	2974	6783
30°	3150	6710
45°	3301	6594
60°	3417	6443

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!



Anschlussprinzip siehe Stückliste Pos.002
CONNECTION PRINCIPLE SEE PARTS LIST

*** ONLY FOR INTEGRATED CYL. LUBRICATION
AUTOMATIC TRANSFER (iCAT)

** Standard-Ausführung
STANDARD EXECUTION

* Optionale Ausführung (falls verlangt)
OPTIONAL EXECUTION (IF REQUIRED)

[illegible]

		Product		PIPE CONNECTION PLAN			
		7RT-flex50DF (STD)		Rohranschlussplan			
Units	mm kg	NX	 	Basic Material		Net Weight	
Made	27.08.2019	Jainin Prapajoti	Scale	1:32	A0	Page	1/2
	30.08.2019	hbd002 Dorne	Design Group		Material		
	30.08.2019	sth017 Thalman	8020		Drawing ID		DAAD120632
Rev.	A						

	2	3	4	5	6	7	8	9	10	11	12		
A					Ko. Gr. KO. GR.	Leitungs-Anschlusse PIPE-CONNECTIONS							
	1		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN 125 PN 6	8305	X							
B	2		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN 125 PN 6	8310	X							
C	5		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN 250 PN 6	8335				X				
	7		SLK Leitung Kuehlwasser Austritt SAC PIPE COOLING WATER OUTLET	DN 250 PN 6	8335				X				
D	10		Sammelleitung Kondenswasser SLK Entlüftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN 50 PN 6	8357				X				
	11		Oelablaufleitung Versorgungseinheit Austritt OIL PIPE DRAIN SUPPLY UNIT OUTLET	DN 40 PN 6	8454		X			X			
E	12		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN 32 PN 6	8313				X				
	13		Entlueftung/Entleerung SLK VENTING/DRAIN SAC	DN 25 PN 6	8314				X				
F	14		Wasser-/Luftltg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN 25 PN 16	8338				X				
	16		Zylinderkuehlwasserleitung Entlüftung CYLINDER COOLING WATER PIPE VENTING	DN 32 PN 16	8611		X		X				
G	17		Leckoelleitung Auslassventil DE OIL LEAKAGE PIPE EXAUST VALVE DE	DN 65 PN 6	8480		X						
	18		Oelleitung Turbolader Austritt OIL PIPE TURBOCHARGER OUTLET	DN 65 PN 6	8431				X				
H	19		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN 50 PN 6	8357		X						
J	20		Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN 50 PN 16	8357		X						
	21		Sammeliltg. Oelwasser Wasserabsch. COLLECTOR MAIN OILWATER WATER SEP.	DN 50 PN 6	8352		X		X				
K	22		Oelsystem TL Entlüftung OIL SYSTEM TC VENTING	DN 65 PN 6	8610		X		X				
	23		Sammelleitung Leckoeel Grundplatte COLLECTOR MAIN LEAKAGE BEDPLATE	DN 25 PN 6	8463		X		X				
L	24		Oelleitung Eintritt OIL PIPE INLET	DN 125 PN 6	8406		X						
M	25		Sammelltg. Schmutzoel Kolbenu.seite COLLECTOR MAIN DIRTY OIL PIST.U.SIDE	DN 100 PN 6	8487				X				
	(A) 26a		Zylinderschmieroelleitung Eintritt CYL. LUBRICATING OIL PIPE (HIGH BN) INLET	DN 25 PN 6	FlexLub 8475		X			X			
N	27		Sammelleitung Automatikfilter Automatikfilter FLUSHING OIL PIPE AUTOMATIC FILTER OUTLET	DN 20 PN 10	8445		X						
	28		Sammelleitung Leckoeel Stopfbuechse COLL. MAIN LEAKAGE OIL GLAND BOX	DN 40 PN 6	8488		X						
P	29*		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN PN	1110		X		X				
	30		Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)	DN PN	1110								
Q	31		Brennstoff Eintritt FUEL OIL INLET	DN 65 PN 16	8702		X						
	32		Brennstoff Austritt FUEL OIL OUTLET	DN 50 PN 16	8704		X						

33		Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN 20 PN 6	8740		X		X
34		Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN 40 PN 6	8741		X		X
35		Feuerloeschleitung FIRE EXTINGUISHING PIPE	DN 32 PN 16	8830				X
36		Heizltg. Brennstoff Eintr/Austr Eintritt HEATING PIPE FUEL INLET/OUTLET INLET	DN 25 PN 16	8810			X	
38		Heizltg. Brennstoff Eintr/Austr Austritt HEATING PIPE FUEL INLET/OUTLET OUTLET	DN 15 PN 16	8810		X		X
39		Heizltg. Brennstoff Eintr/Austr Austritt HEATING PIPE FUEL INLET/OUTLET OUTLET	DN 15 PN 16	8810		X		
40		Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN 20 PN 16	8338			X	
(A) 41		Anlassluftleitung Eintritt STARTING AIR PIPE INLET	DN 125 PN 40	8605	X			X
42*		Ablassventil fuer *WASTE GATE FOR LLT* EXHAUST WASTE GATE FOR LLT (LOW LOAD TUNING)	DN 100 PN 6	8135		X		
43		Steuerluftversorgung 6.5 bar: A1 CONTROL AIR SUPPLY	DN 15 PN 8	8630	X			
44	siehe Zchnng 1 SEE DRAWING 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509				
45	siehe Zchnng 1 SEE DRAWING 1	Bypass zur Auspuffleitung (für Motoren mit einem Turbolader) EXHAUST BY PASS (FOR ENGINES WITH ONE TURBOCHARGER)		8103 8108				
46		Entlueftungsltg. Kurbelgehäuse VENTING PIPE CRANKCASE	DN 65 PN 6	8608	X			
47		Oel Zu/Ablaufleitung Servosystem Austritt OIL INLET/DRAIN PIPE SERVO SYSTEM OUTLET	DN 50 PN 6	8448	X			
49		Oelleitung Kreuzkopf Eintritt OIL PIPE CROSSHEAD INLET	DN 125 PN 16	8455		X		
(A) 51		Hochdruckltg. Pilot Ventil Eintritt HIGH PRESSURE PIPE FUEL PILOT VALVE INLET	DN 15 PN 16	8790	X		X	
(A) 52		Hochdruckltg. Pilot Ventil Austritt HIGH PRESSURE PIPE FUEL PILOT VALVE OUTLET	DN 20 PN 16	8790	X		X	
53	siehe Zchnng 1 SEE DRAWING 1	Gas verteil Leitung Eintritt GAS DISTRIBUTOR PIPE INLET		8903	X			
54		Gas Entlüftungsleitung Austritt GAS VENTING PIPE OUTLET	DN 80 PN 16	8910		X		
55		Gas Entlüftungsleitung Luft Eintritt GAS VENTING PIPE AIR INLET	DN 20 PN 16	8910		X		
56		Gas Entlüftungsleitung Austritt GAS VENTING PIPE OUTLET	DN 20 PN 16	8910	X			
57		Gas Überwachung Kolbenunterseite Austritt GAS DETECTION PIPE PISTON UNDERSIDE OUTLET	DN 20 PN 16	8911		X		
58		inertgas Eintritt INERT GAS INLET	DN 20 PN 16	8904				Not defined yet
(A) 26b***		Zylinderschmieroelleitung Eintritt CYL. LUBRICATING OIL PIPE (LOW BN) INLET	DN 25 PN 6	FlexLub 8475	X			X

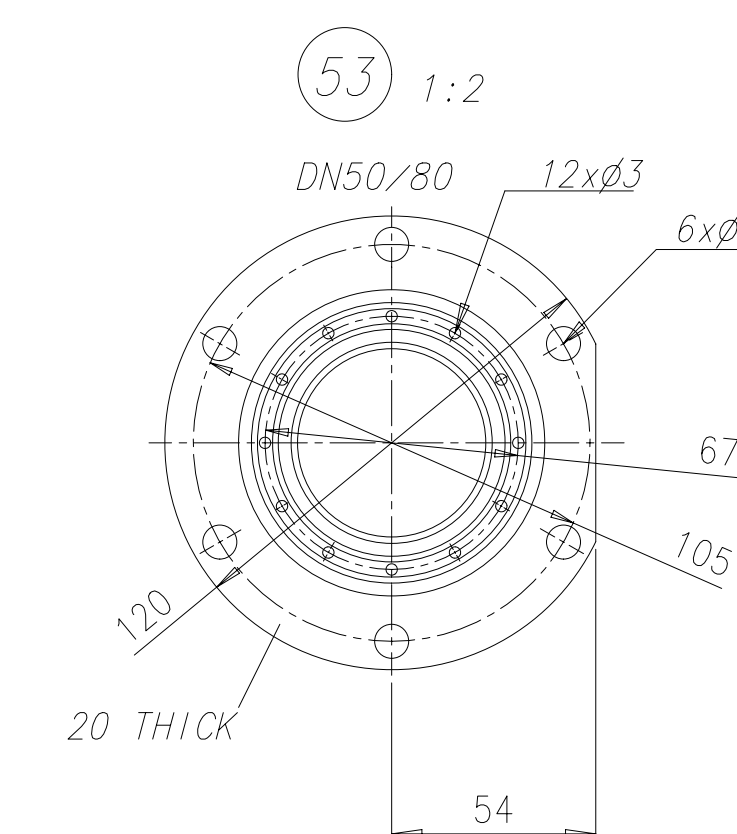
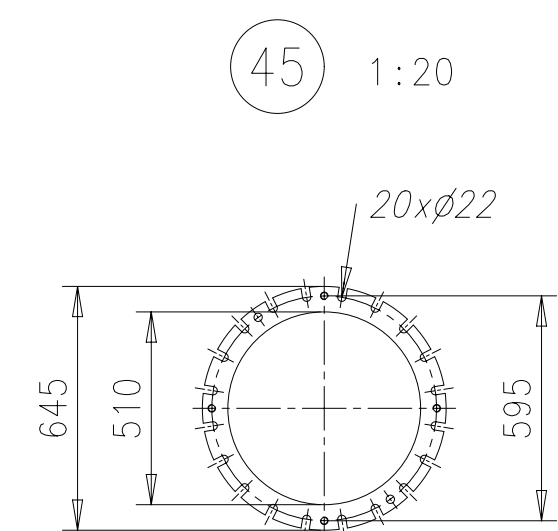
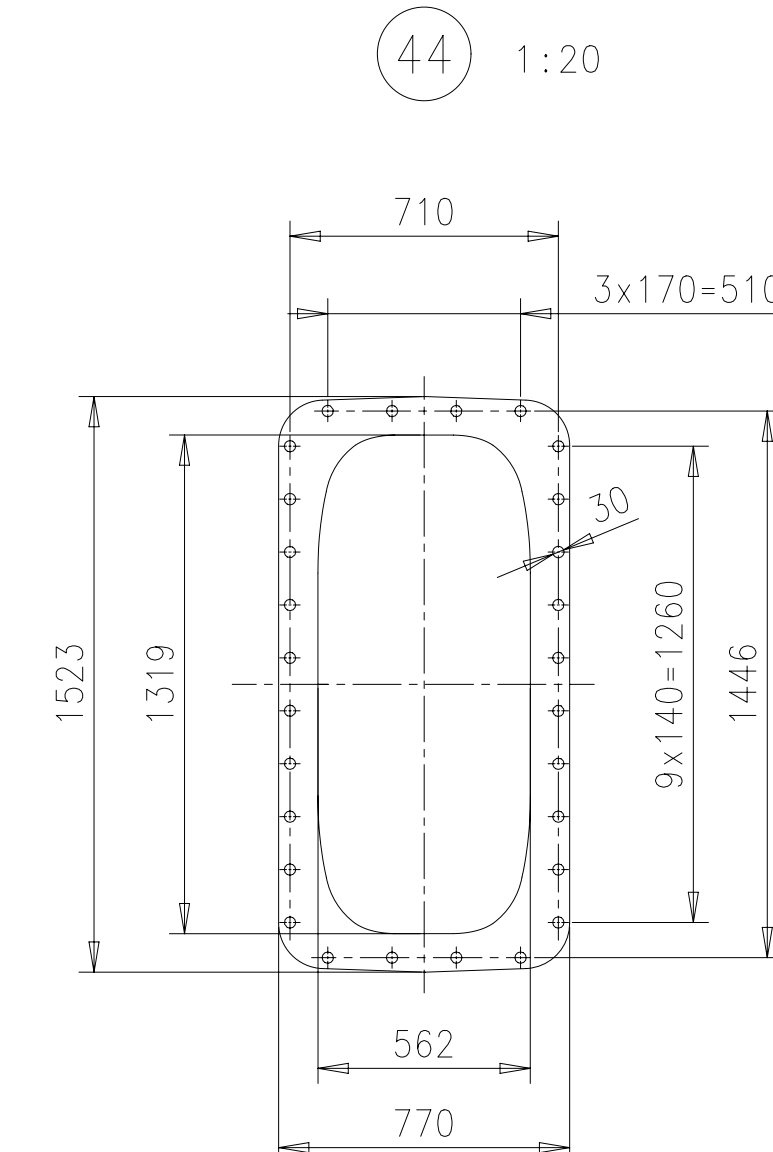
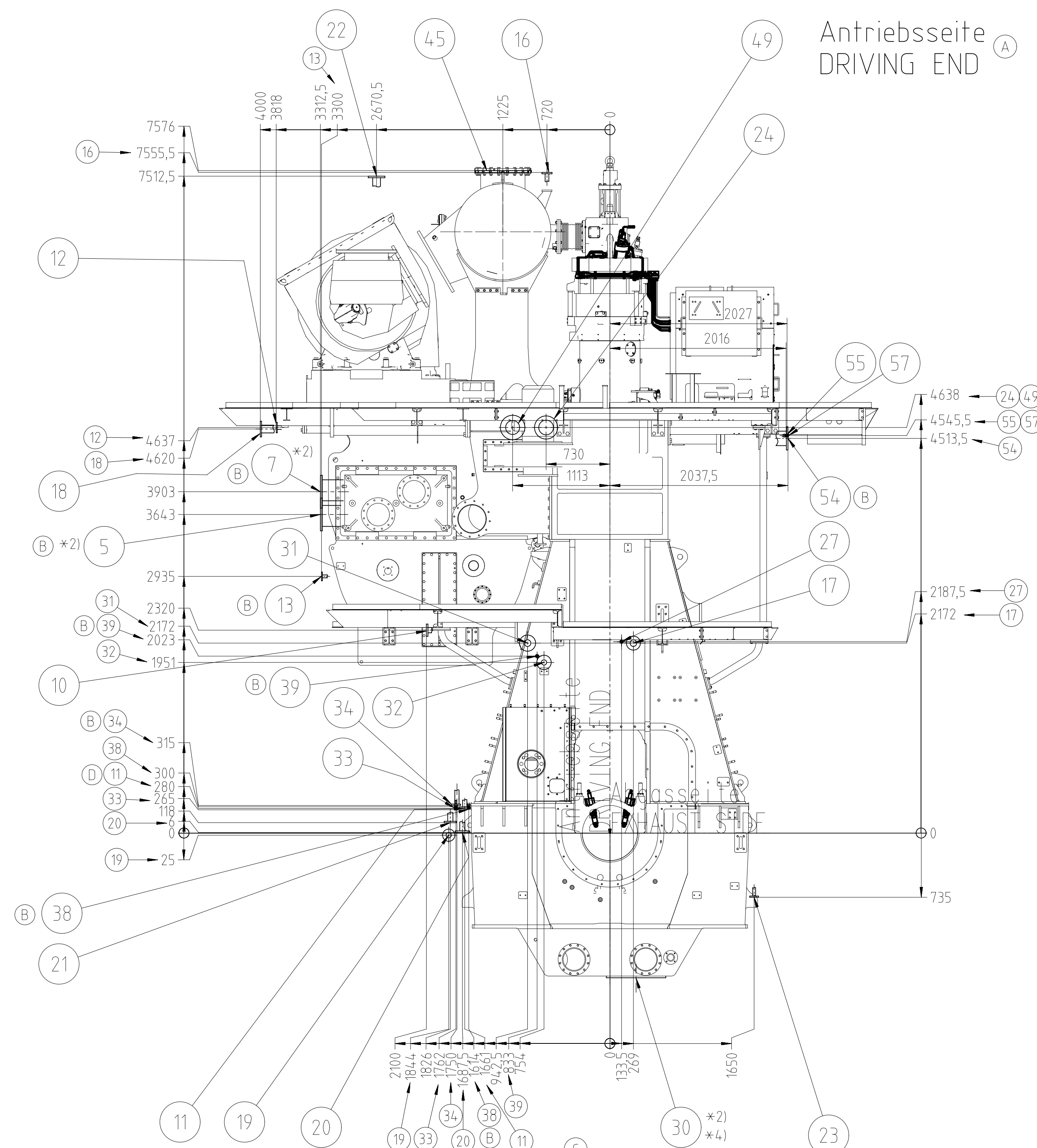
Abmasse der Flansche siehe Stückliste Pos.001,002
FLANGE DIMENSION SEE PARTS LIST

* Optionale Ausfuehrung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)

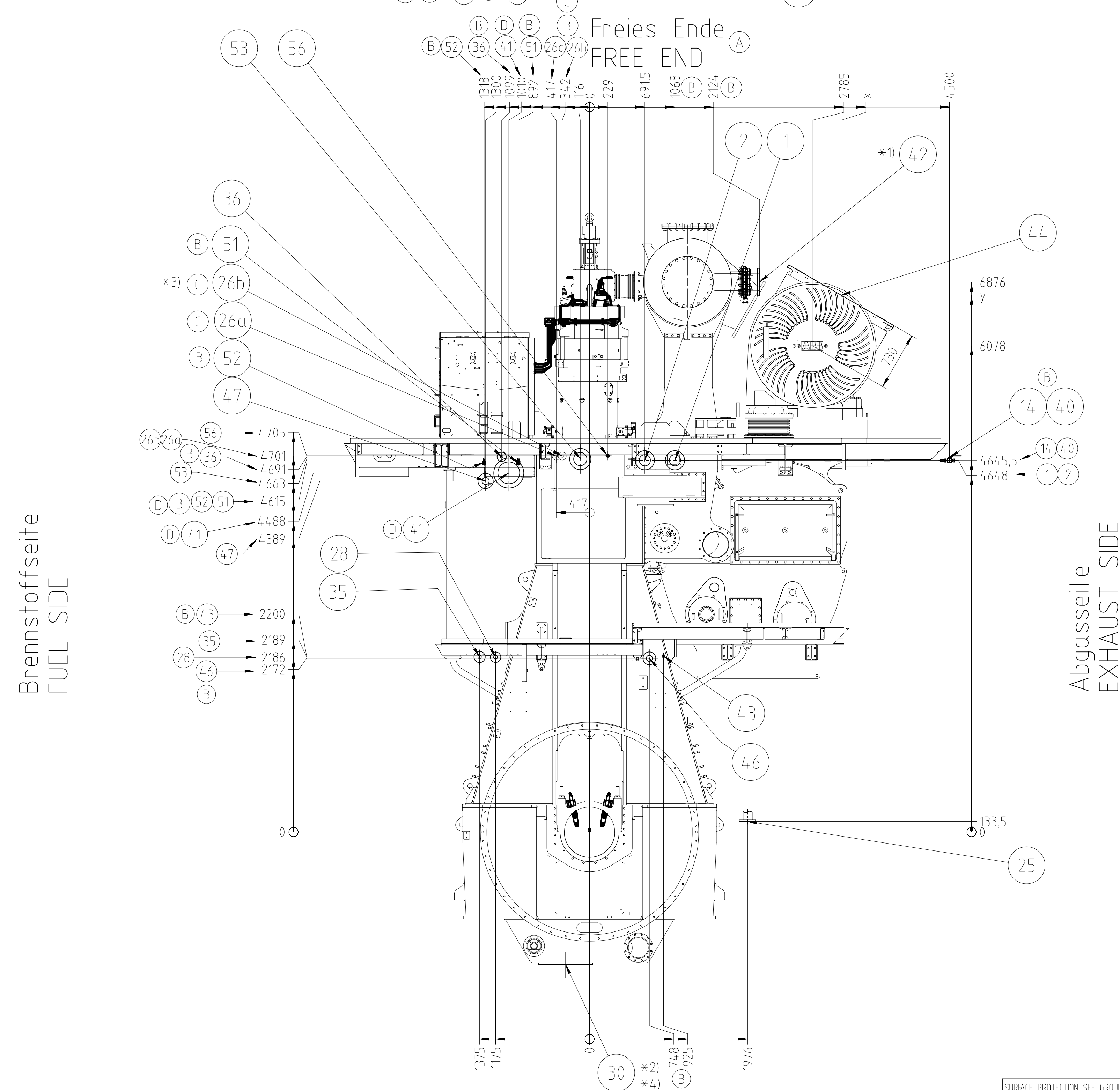
1xA175-L

(A) *** ONLY FOR INTEGRATED CYL. LUBRICATION
AUTOMATIC TRANSFER (iCAT)

Free space for l.c.	Q-Code XXXXXX Standard ISO				Main Drw. H	
Modif. A	EAAD096095	09.03.2021				
Number	Drawn date	Number	Drawn date	Number	Drawn date	Number
Product 7RT-flex50DF (STD)			PIPE CONNECTION PLAN			
WINGD Winterthur Gas & Diesel			Rohranschlussplan			
Units	mm kg	NX	Basic Material			Net Weight
SURFACE PROTECTION SEE GROUP 0344		Made	27.08.2019	Jaimin Prajapati	Scale	1:1
TOLERANCING PRINCIPLE ISO8015		Chkd	30.08.2019	hdo02 Däre	Design Group	8020
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	30.08.2019	sth017 Thalmann	Drawing ID	DAAD120632
						Rev. A



Anschlussprinzip siehe Stückliste Pos.002
CONNECTION PRINCIPLE SEE PARTS LIST



- *4) Final position to be defined by the shipyard in compliance with the specification in DG9722 ("Lubricating Oil System")
- *3) ONLY FOR INTEGRATED CYL. LUBRICATION AUTOMATIC TRANSFER (iCAT)
- *2) Standard-Ausführung
STANDARD EXECUTION
- *1) Optionale Ausführung (falls verlangt)
OPTIONAL EXECUTION (IF REQUIRED)

Berthg	0,001													
	1	002	PAAD147122	FLANGE DIMENSIONS			DAAD045822			0,01				
Density PER	1	001	107.390.729.500	FLANGE DIMENSIONS			107.390.729			0,001				
	SEQ NO		Material ID	Material Name			Standard or Dimensions, Dec			Drawing		Basic Material Material Standard	Weight GR/MET	
	PAAD335949													
Material	Model	A		EAAD091969	08.11.2019	B	EAAD091918	06.03.2020	C	EAAD095956	02.02.2021	D	EAAD096095	09.03.2021
		Number		Drawn date		Number		Drawn date		Number		Drawn date		Drawn date
WIN GD Winsen-Gas & Diesel				3RTLE5X50DF (LEFT)				PIPE CONNECTION PLAN						
								Rohranschlussplan						
Units: mm kg NY				Basic Material								Net Weight		
C	Model	126.08.2019			Jamin Progotapi		Size	1:33		Page	1/2		Material	
	Chkd	30.08.2019			hdo02 Dorte		Design Group							
IS02768	Appd	30.08.2019			utsa001 Belsaker		8020	DAAD119982						

|--|

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ISO

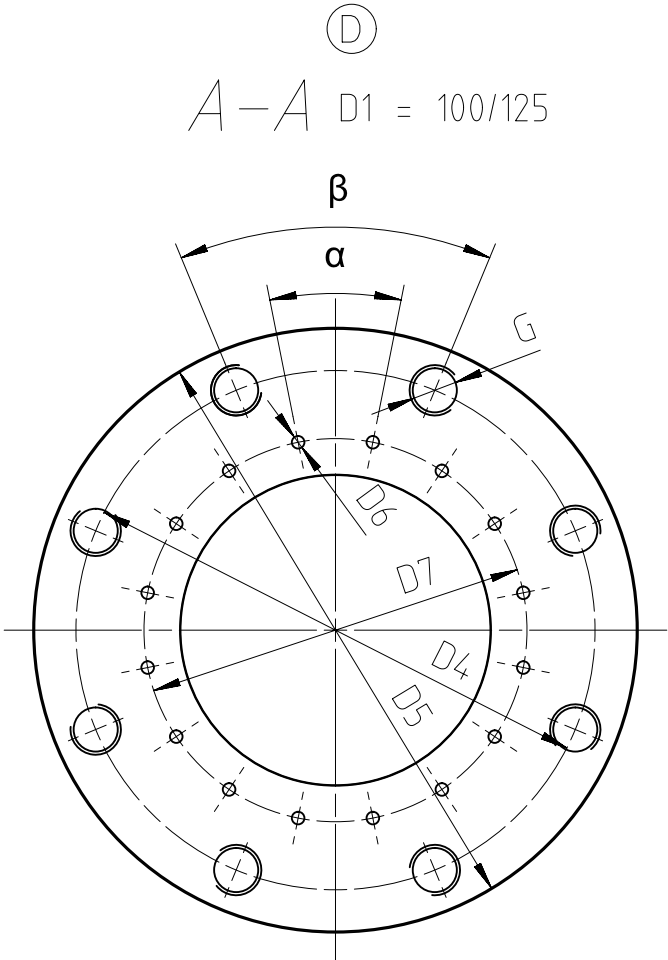
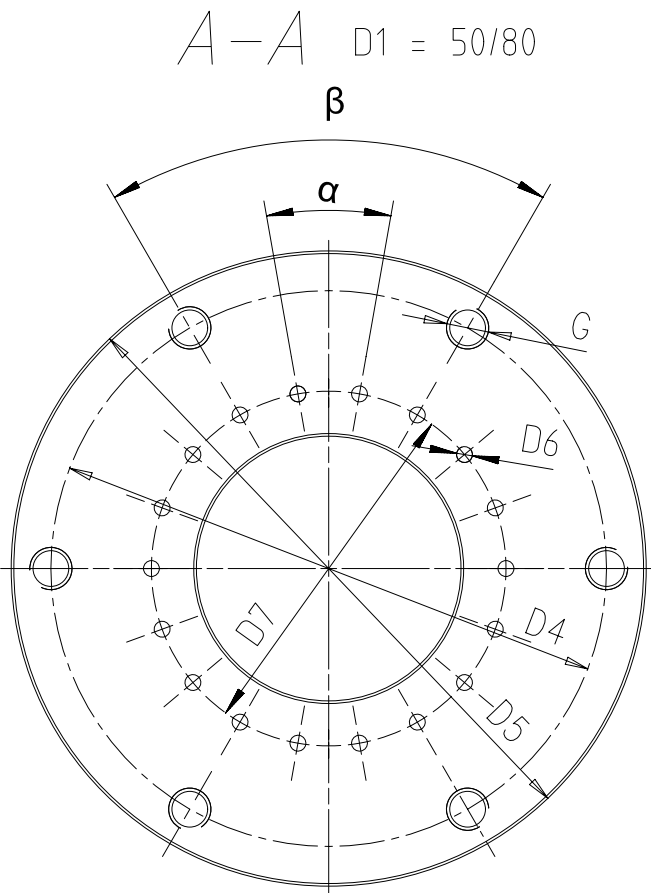
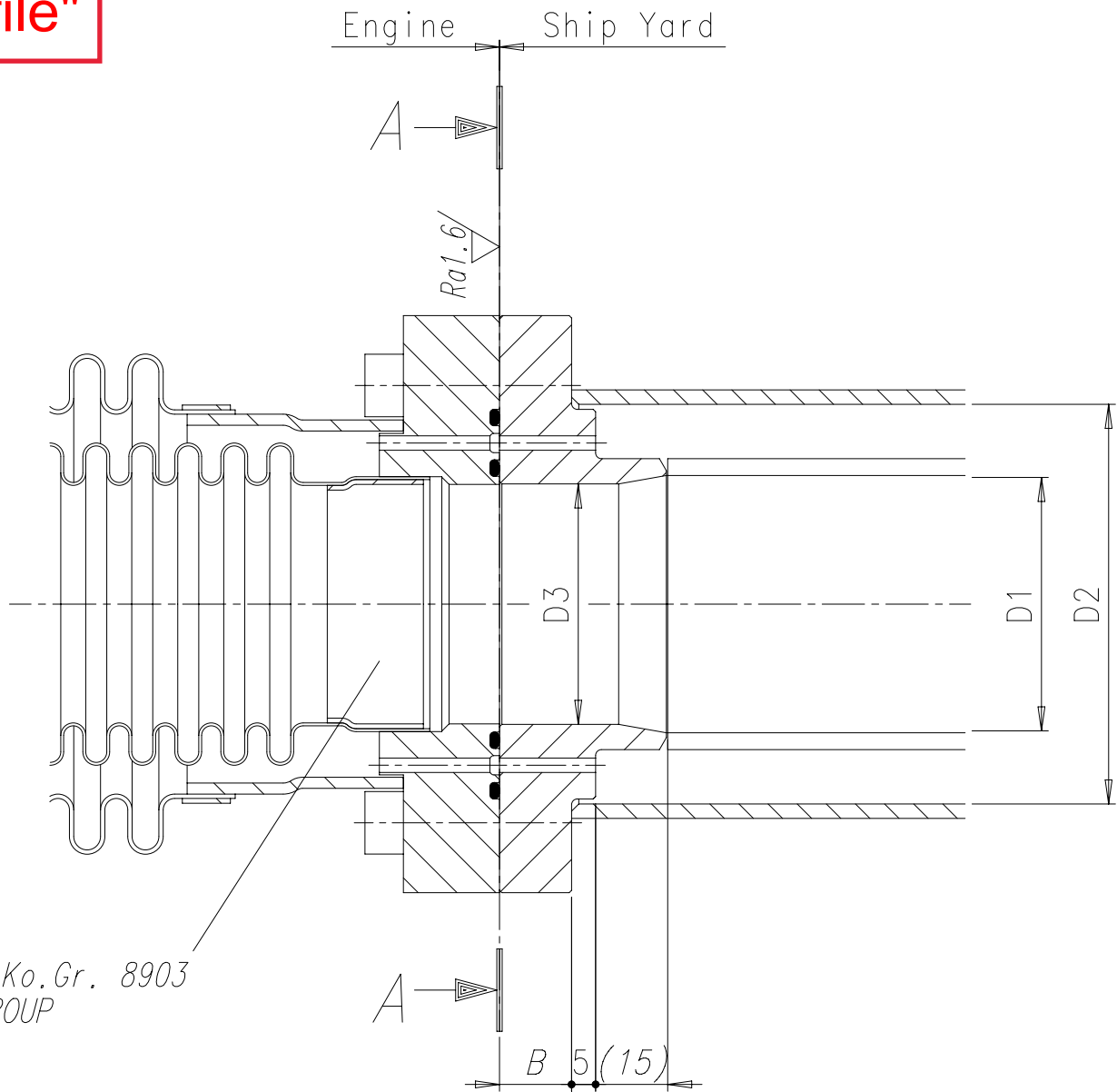
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
6 bar	25	100	14	75	4	M10	11
	32	120	16	90	4	M12	14
	40	130	16	100	4	M12	14
	50	140	16	110	4	M12	14
	65	160	16	130	4	M12	14
	80	190	18	150	4	M16	18
	100	210	18	170	4	M16	18
	125	240	20	200	8	M16	18
	150	265	20	225	8	M16	18
	200	320	22	280	8	M16	18
	250	375	24	335	12	M16	18
	300	440	24	395	12	M20	22
	350	490	26	445	12	M20	22
	400	540	28	495	16	M20	22
	450	595	30	550	16	M20	22
	500	645	30	600	20	M20	22
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
10 bar	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	18
	50	165	19	125	4	M16	18
	65	185	20	145	8	M16	18
	80	200	20	160	8	M16	18
	100	220	22	180	8	M16	18
	125	250	22	210	8	M16	18
	150	285	24	240	8	M20	22
	200	340	24	295	8	M20	22
	250	395	26	350	12	M20	22
	300	445	26	400	12	M20	22
	350	505	28	460	16	M20	22
	400	565	32	515	16	M24	26
	450	615	38	565	20	M24	26
	500	670	38	620	20	M24	26

PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
16 bar	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	18
	50	165	19	125	4	M16	18
	65	185	20	145	8	M16	18
	80	200	20	160	8	M16	18
	100	220	22	180	8	M16	18
	125	250	22	210	8	M16	18
	150	285	24	240	8	M20	22
	200	340	26	295	12	M20	22
	250	405	32	355	12	M24	26
	300	460	32	410	12	M24	26
	350	520	35	470	16	M24	26
	400	580	38	525	16	M27	30
	450	640	42	585	20	M27	30
	500	715	46	650	20	M30	33
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS			
40 bar	25	115	16	85	4	M12	14
	32	140	18	100	4	M16	18
	40	150	18	110	4	M16	18
	50	165	20	125	4	M16	18
	65	185	22	145	8	M16	18
	80	200	24	160	8	M16	18
	100	235	26	190	8	M20	22
	125	270	28	220	8	M24	26
	150	300	30	250	8	M24	26
	200	375	36	320	12	M27	30
	250	450	44	385	12	M30	33
	300	515	48	450	16	M30	33
	350	580	54	510	16	M33	36
	400	660	60	585	16	M36	39

JIS																
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				
5 bar	25	95	10	75	4	M10	12	16 bar	25	125	14	90	4	M16	19	
	32	115	12	90	4	M12	15		32	135	16	100	4	M16	19	
	40	120	12	95	4	M12	15		40	140	16	105	4	M16	19	
	50	130	14	105	4	M12	15		50	155	16	120	8	M16	19	
	65	155	14	130	4	M12	15		65	175	18	140	8	M16	19	
	80	180	14	145	4	M16	19		80	200	20	160	8	M20	23	
	100	200	16	165	8	M16	19		100	225	22	185	8	M20	23	
	125	235	16	200	8	M16	19		125	270	22	225	8	M22	25	
	150	265	18	230	8	M16	19		150	305	24	260	12	M22	25	
	200	320	20	280	8	M20	23		200	350	26	305	12	M22	25	
	250	385	22	345	12	M20	23		250	430	28	380	12	M24	27	
	300	430	22	390	12	M20	23		300	480	30	430	16	M24	27	
	350	480	24	435	12	M22	25		350	540	34	480	16	M30	33	
	400	540	24	495	16	M22	25		400	605	38	540	16	M30	33	
	450	605	24	555	16	M22	25		450	675	40	605	20	M30	33	
	500	655	24	605	20	M22	25		500	730	42	660	20	M30	33	
PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				PN	DN	OUT.DIA.	THICK	DIM. FOR SCREWS				
10 bar	25	125	14	90	4	M16	19	30 bar	25	130	20	95	4	M16	19	
	32	135	16	100	4	M16	19		32	140	22	105	4	M16	19	
	40	140	16	105	4	M16	19		40	160	22	120	4	M20	23	
	50	155	16	120	4	M16	19		50	165	22	130	8	M16	19	
	65	175	18	140	4	M16	19		65	200	26	160	8	M20	23	
	80	185	18	150	8	M16	19		80	210	28	170	8	M20	23	
	100	210	18	175	8	M16	19		100	240	32	195	8	M22	25	
	125	250	20	210	8	M20	23		125	275	36	230	8	M22	25	
	150	280	22	240	8	M20	23		150	325	38	275	12	M24	27	
	200	330	22	290	12	M20	23		200	370	42	320	12	M24	27	
	250	400	24	355	12	M22	25		250	450	48	390	12	M30	33	
	300	445	24	400	16	M22	25		300	515	52	450	16	M30	33	
	350	490	26	445	16	M22	25		350	560	54	495	16	M30	33	
	400	560	28	510	16	M24	27		400	630	60	560	16	M36	39	
	450	620	30	565	20	M24	27									
	500	675	30	620	20	M24	27									

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										

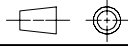
Download
"DXF file"



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				
 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 ID	PAAD147122	
Chkd	04.09.2014			ihe003 Herceg			Design Group	8020		Drawing ID	DAAD045822			Rev.	F	
Appd	05.09.2014			bha009 Haag												

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

WinGD-7RT-flex50DF _Pipe Connection Plan

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2019-11-29	DAAD055300 DAAD120632 DAAD119982 DAAD045822	Revised Pipe Connection Plan for Standard execution with GVU for Turbocharger type 1xA175 has been updated. New Pipe Connection Plan for STD and LEFT engine executions with IGPR for Turbocharger Type 1xA175-L have been added. Revised flange dimensions drawing has been updated.
2020-08-28	DAAD055300 DAAD119982	Revised Pipe Connection Plans for STD execution with GVU for Turbocharger type 1xA175 and LEFT execution with IGPR for Turbocharger type 1xA175-L have been updated.
2021-05-23	PAAD174540 PAAD335949 PAAD337388	Revised Pipe Connection Plans for STD execution with GVU for Turbocharger type 1xA175 and LEFT execution with IGPR for 1xA175 have been updated. Revised flange dimensions drawing has been updated.

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