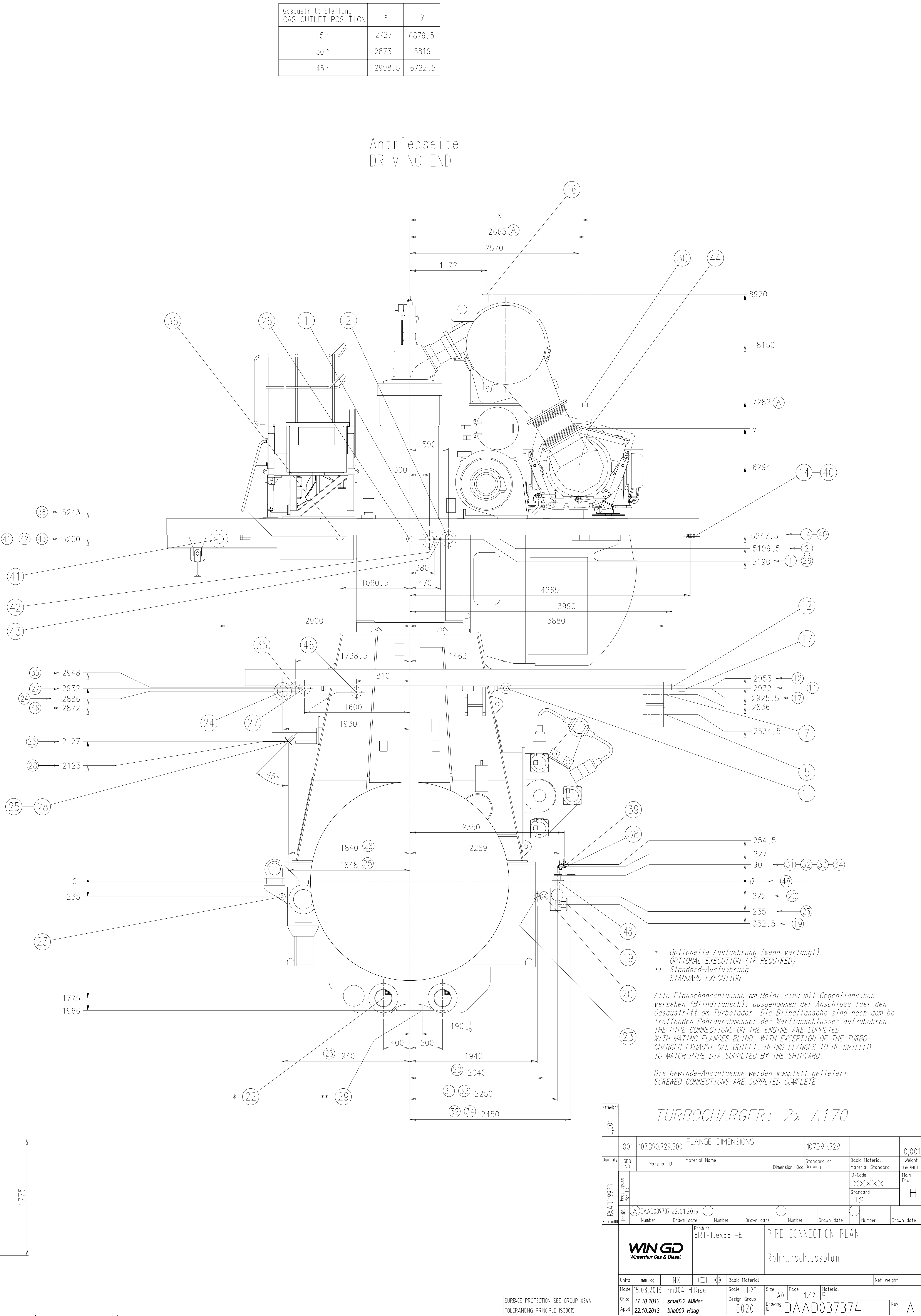
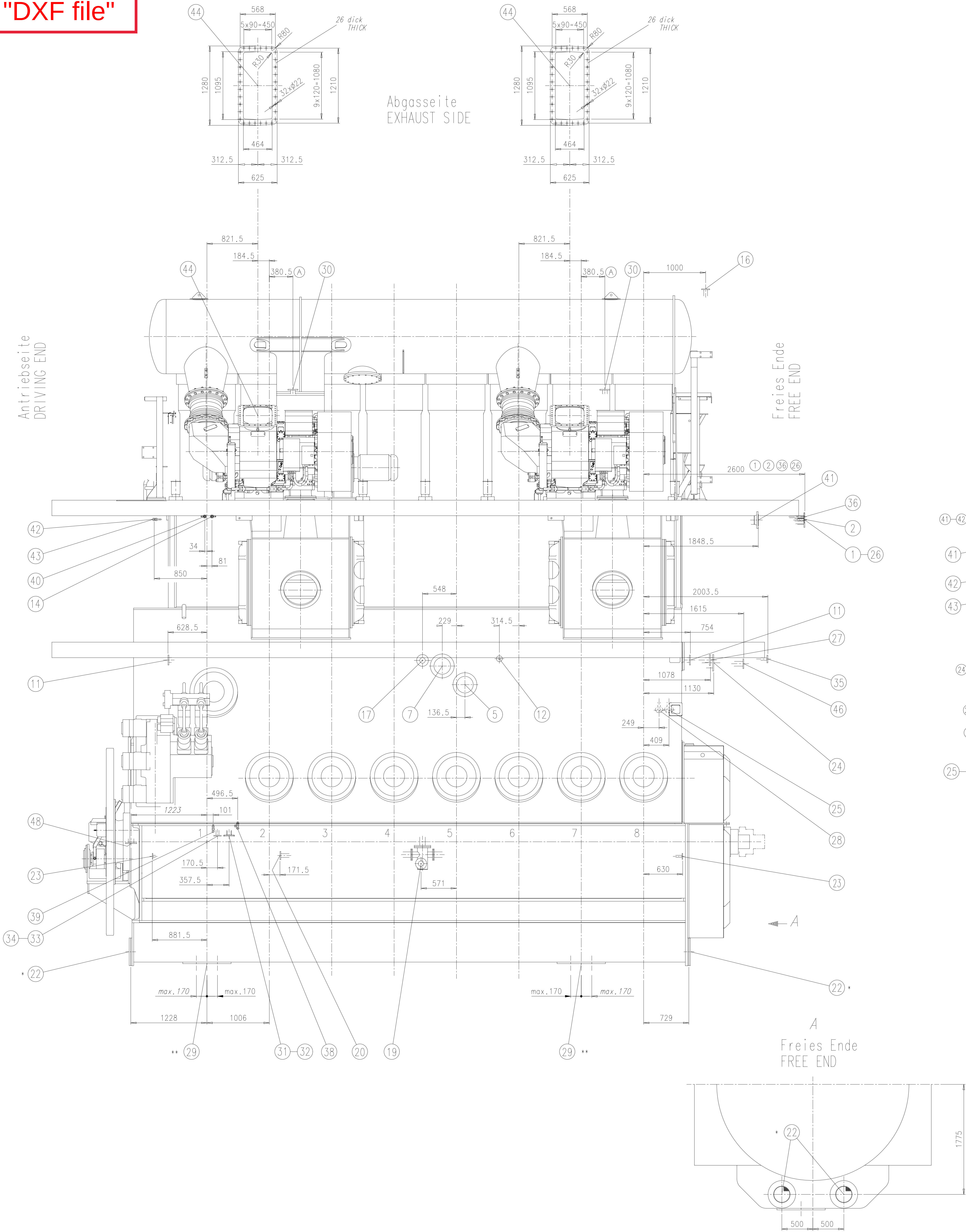
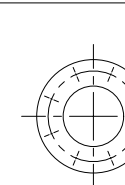
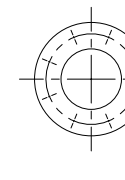
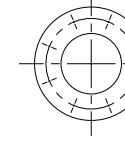
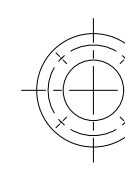
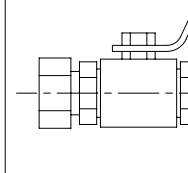
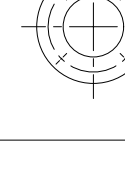
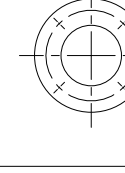
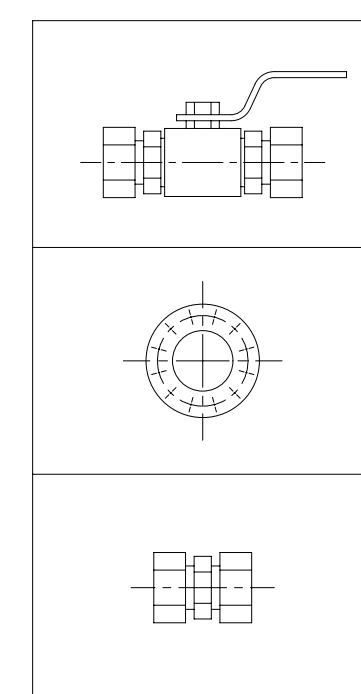
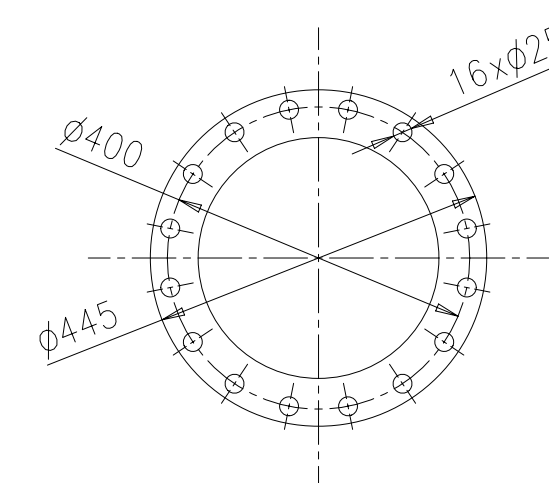
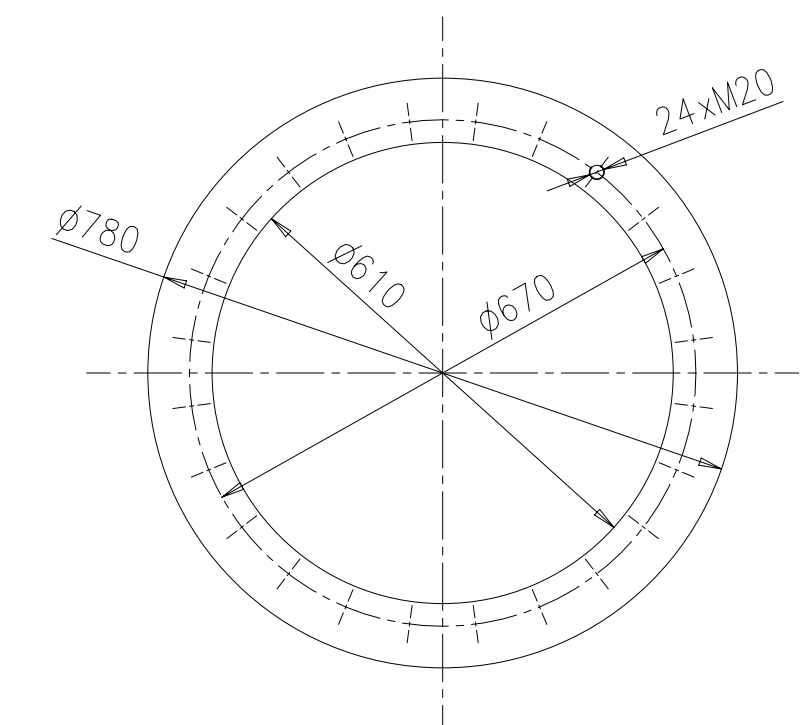
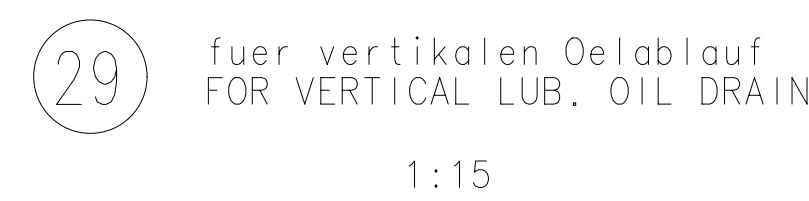


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					Leitungs - Anschlüsse PIPE - CONNECTIONS			
					Ko.Gr. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE
①		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN125 PN5	8305	X			
②		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN125 PN5	8310	X			
③								
④								
⑤		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN250 PN5	8335			X	
⑥								
⑦		SLK Leitung Kuehlwasser Austritt und Entluftung SAC PIPE COOLING WATER OUTLET AND AIR VENT	DN250 PN5	8335			X	
⑧								
⑨								
⑩								
⑪		Sammelleitung oeliges Wasser Receiver COLLECTOR MAIN OILY WATER RECEIVER	DN65 PN5	8352	X	X		
⑫		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN65 PN5	8313			X	
⑬								
⑭		Wasser-/Luftlftg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN20 PN10	8338			X	
⑮								
⑯		Zylinderkuehlwasserleitung Entluftung CYLINDER COOLING WATER PIPE VENTING	DN50 PN5	8310	X UP			
⑰		Sammelleitung Kondenswasser SLK Entluftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN80 PN5	8357			X	
⑱								
⑲		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN80 PN5	8357			X	
⑳		Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN50 PN5	8357		X		
㉑								
㉒	Siehe Detail SEE DETAIL	Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN300 PN10	1110	X	X		
㉓		Sammelleitung Leckoeel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN25 PN5	8463			X	
㉔		Oelleitung Eintritt OIL PIPE INLET	DN150 PN5	8406	X			

					Leitungs - Anschlüsse PIPE - CONNECTIONS				
					Ko. Or. GROUP	Freies Ende FREE END	Antriebsseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
25		Sammellgt. Schmutzoel Kolbenu.seite COLL MAIN DIRTY OIL PIST.U.SIDE	DN50 PN5	8487	X				
26		Zylinderschmierpumpen Anordnung CYLINDER LUBRICATING PUMPS ARRANG.	DN32 PN5	8475	X				
27		Oelleitung Kreuzkopf OIL PIPE CROSSHEAD	DN65 PN16	8455	X				
28		Sammelleitung Leckoel Stopfbuechse COLLEC MAIN LEAK OIL GLAND BOX	DN32 PN5	8488	X				
29	Siehe Detail SEE DETAIL	Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)	DN600 PN5	1110	X DOWN	X DOWN			
30		Oelsystem TL Entlueftung OIL SYSTEM TC VENTING	DN65 PN5	8610			X		
31		Brennstoffltg. Einspritzpumpe Eintritt FUEL PIPE INJECTION PUMP INLET	DN65 PN16	8702		X DOWN			
32		Brennstoffltg. Einspritzpumpe Austritt FUEL PIPE INJECTION PUMP OUTLET	DN50 PN16	8704		X DOWN			
33		Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN40 PN5	8740		X DOWN			
34		Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN40 PN5	8741		X DOWN			
35		Feuerloeschleitung FIRE EXTINGUISHING PIPE	DN32 PN10	8830	X				
36		Heizleitung Eintritt HEAT PIPING INLET	DN25 PN16	8810	X				
38		Heizleitung Austritt HEAT PIPING OUTLET	DN15 PN12	8810		X DOWN			
39		Heizleitung Austritt HEAT PIPING OUTLET	DN15 PN16	8810		X DOWN			
40		Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN20 PN10	8338			X		
41		Anlassluftleitung Eintritt STARTING AIR PIPE INLET	DN125 PN30	8605	X				
42		Steuerluftversorgung 30 bar: A2 CONTROL AIR SUPPLY	DN15 PNX	4605 4606		X			
43		Steuerluftversorgung 8 bar: A1 CONTROL AIR SUPPLY	DN15 PNX	4605 4606		X			
44	siehe Seite 1 SEE PAGE 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509			X UP		
46		Kurbelgehaeuse Entlueftung CRANKCASE VENTING	DN65 PN5	8608	X				
48		Leckoeiltg. Versorgungseinheit LEAKAGE OIL PIPE SUPPLY UNIT	DN80 PN5	8452		X DOWN			



Abmasse der Flansche siehe 4-107.390.729

* Optionelle Ausführung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)
** Standard-Ausführung
STANDARD EXECUTION

Alle Flansanschlüsse am Motor sind mit Gegenflansen versehen (Blindflansch), ausgenommen der Anschluss fuer den Gasaustritt am Turbolader. Die Blindflansen 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 Gewinde-Anschlüsse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

TURBOCHARGER: 2x A170

Model	EAAAD089737							G-code XXXXXX Standard JIS		Main Size H	
	Number	Drawn date			Number	Drawn date		Number	Drawn date		
 WINGD Winterthur Gas & Diesel				Product 8RT-flexSB-E		PIPE CONNECTION PLAN Rohranschlussplan					
Units	mm	kg	 Basic Material		Net Weight						
Model	15.03.2013	hr004	H.Riser		Scale	1:1	Size	Page	2/2	Material	
Approved	17.10.2013	smas32	Mader		Design Group	8020	Drawing ID	DAAD037374			Rev.
Check	22.10.2013	bhs008	Haag								A

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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										

WinGD-8RT-flex58T-E_pipe-connection-plan

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2019-05-15	DAAD037374	Revised Pipe connection plan for Turbocharger type 2 x A170 has been updated.

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