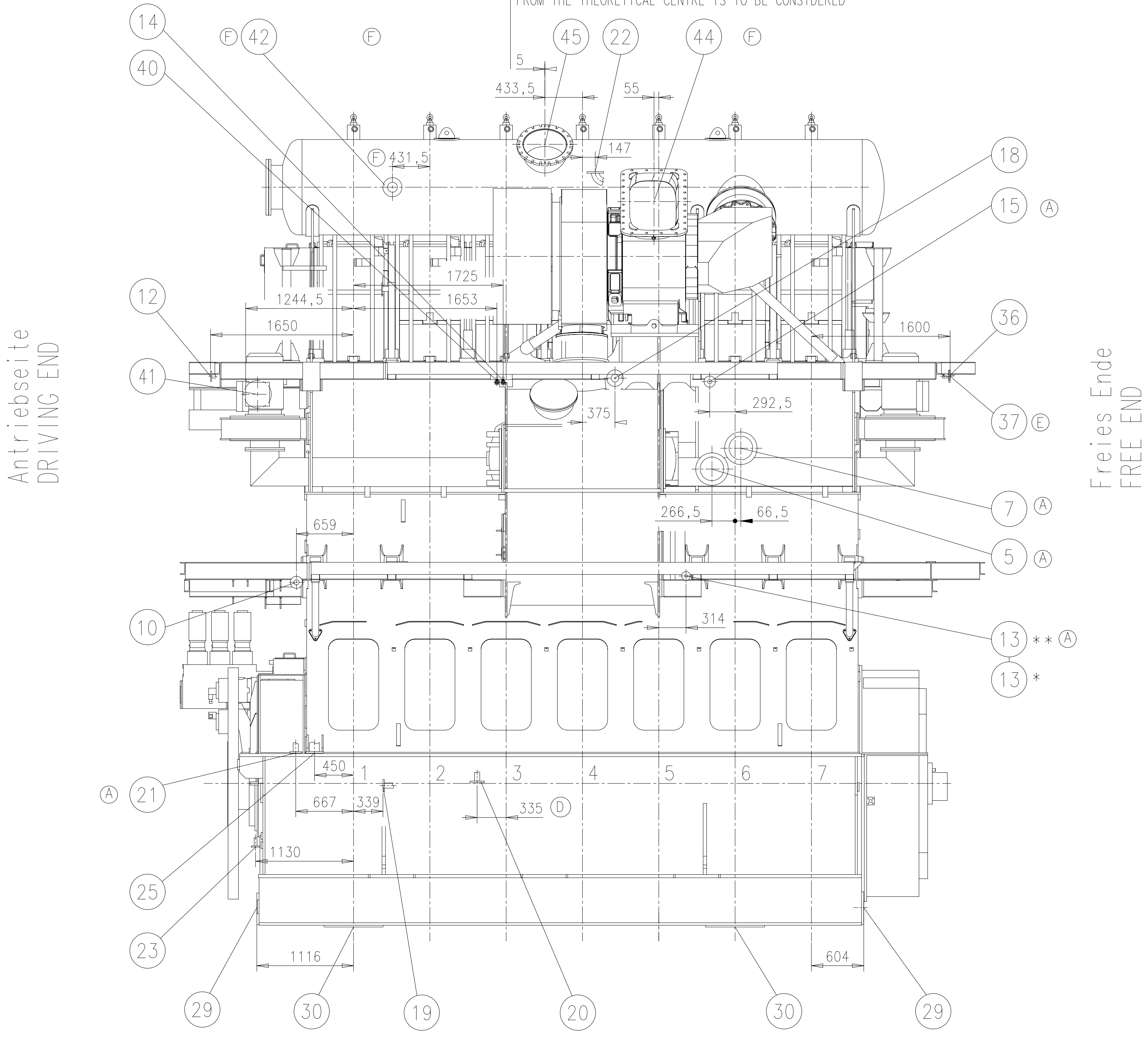
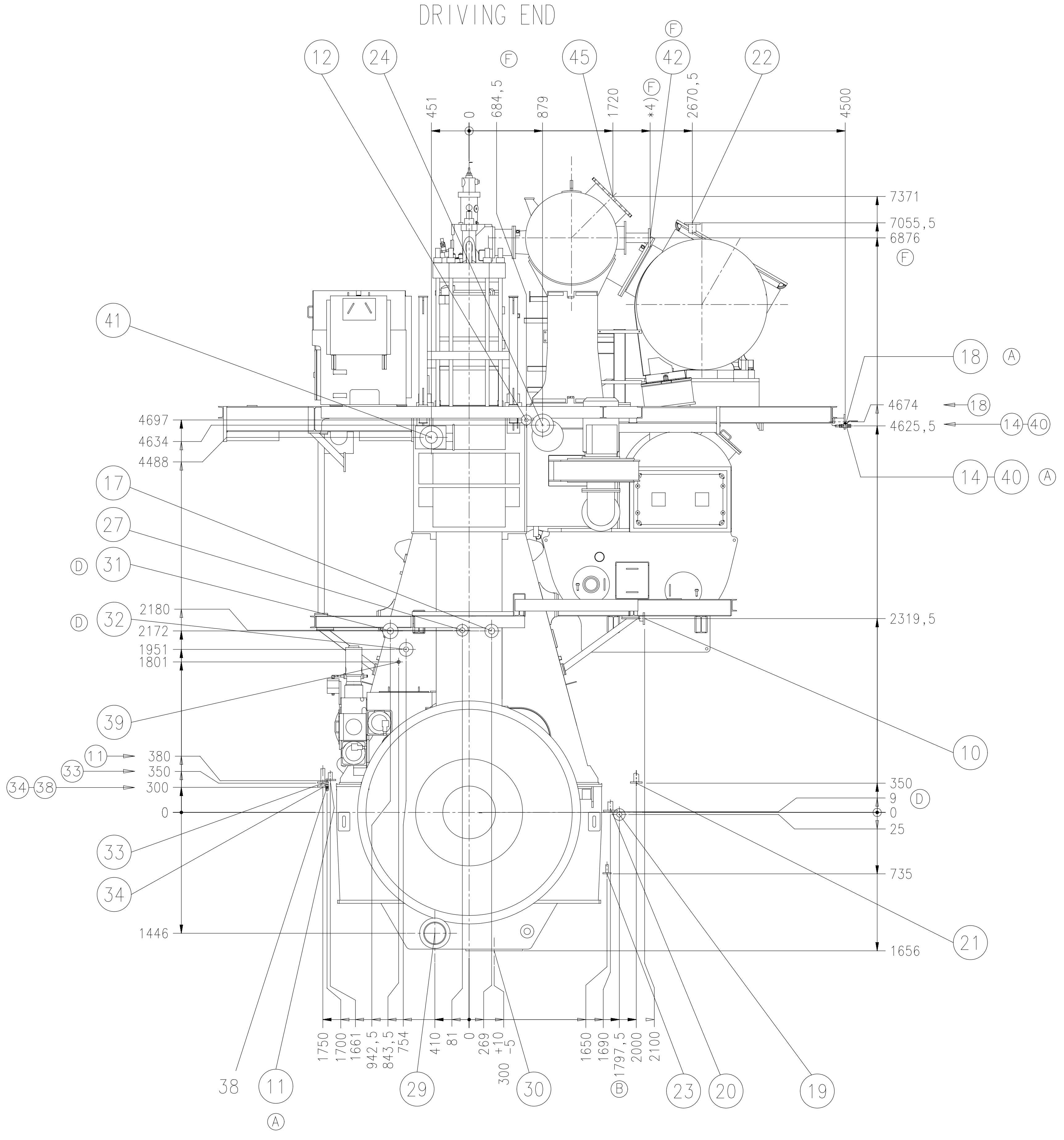
Download
"DXF file"

Abgasseite
EXHAUST SIDE

Beim Montieren der Leitung ist die Waermeausdehnung von 5 mm gegen Freies Ende von der theor. Mitte aus zu beruecksichtigen
WHEN ASSEMBLING THE PIPING THE THERMAL EXPANSION OF 5 MM TOWARDS THE FREE END FROM THE THEORETICAL CENTRE IS TO BE CONSIDERED



Antriebseite
DRIVING END



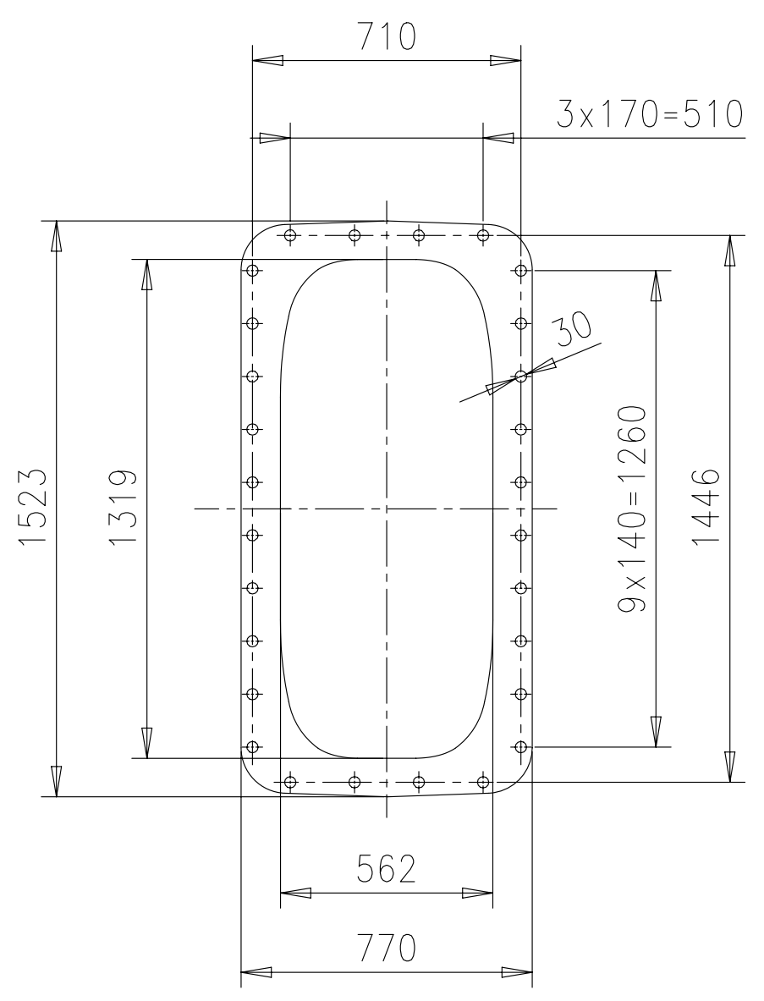
Alle Flanschanschluesse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fuer den Gasaustritt am Turbolader. Die Blindflansche sind nach dem betreffenden Rohrdurchmesser des Werftanschlusses aufzubohren.
THE PIPE CONNECTIONS ON THE ENGINE ARE SUPPLIED WITH MATING FLANGES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

Die Gewinde-Anschluesse werden komplett geliefert
SCREWED CONNECTIONS ARE SUPPLIED COMPLETE

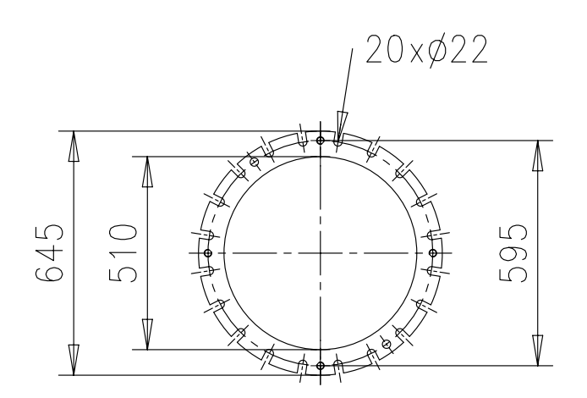
1x A175

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

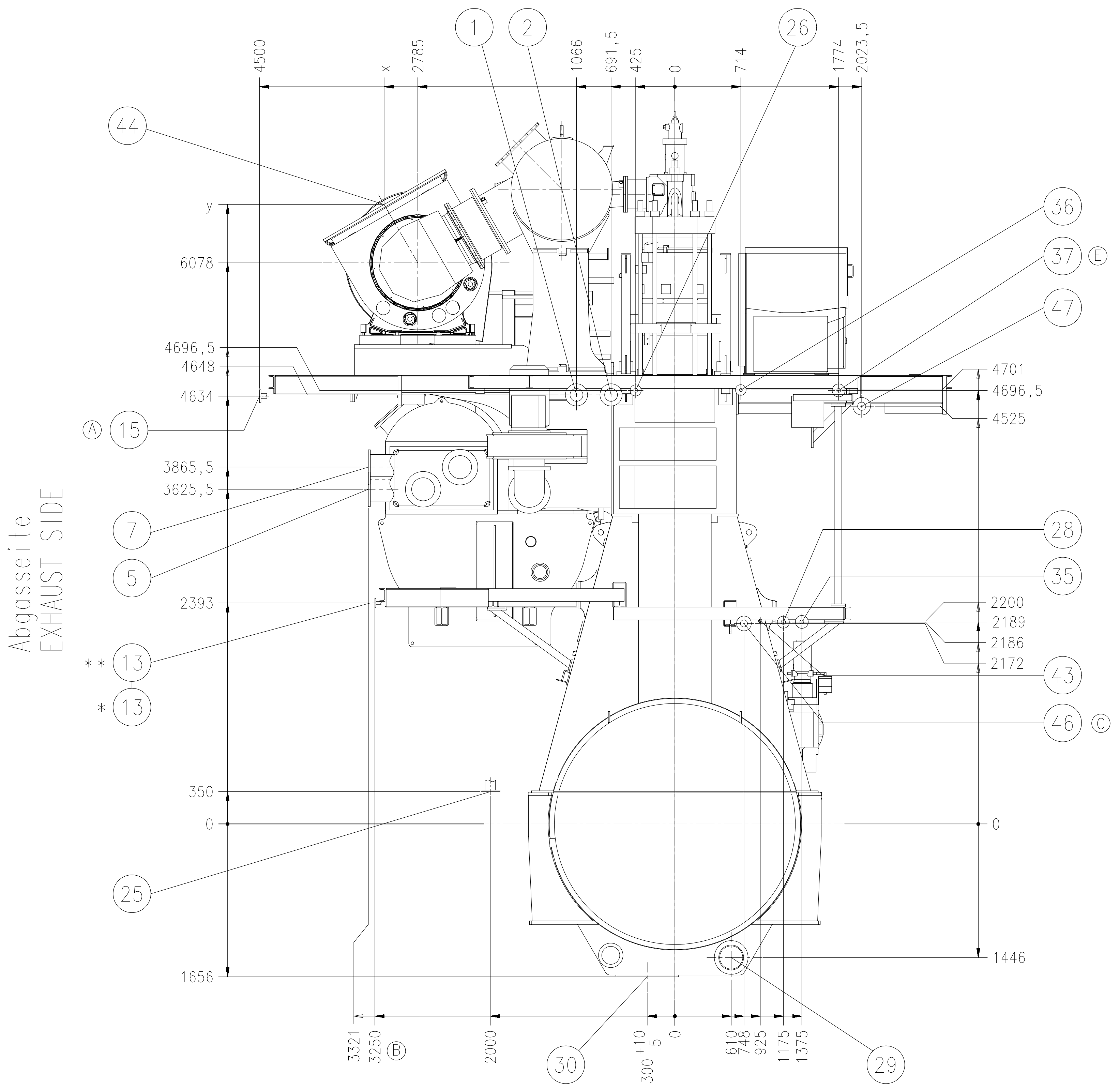
44 1:20



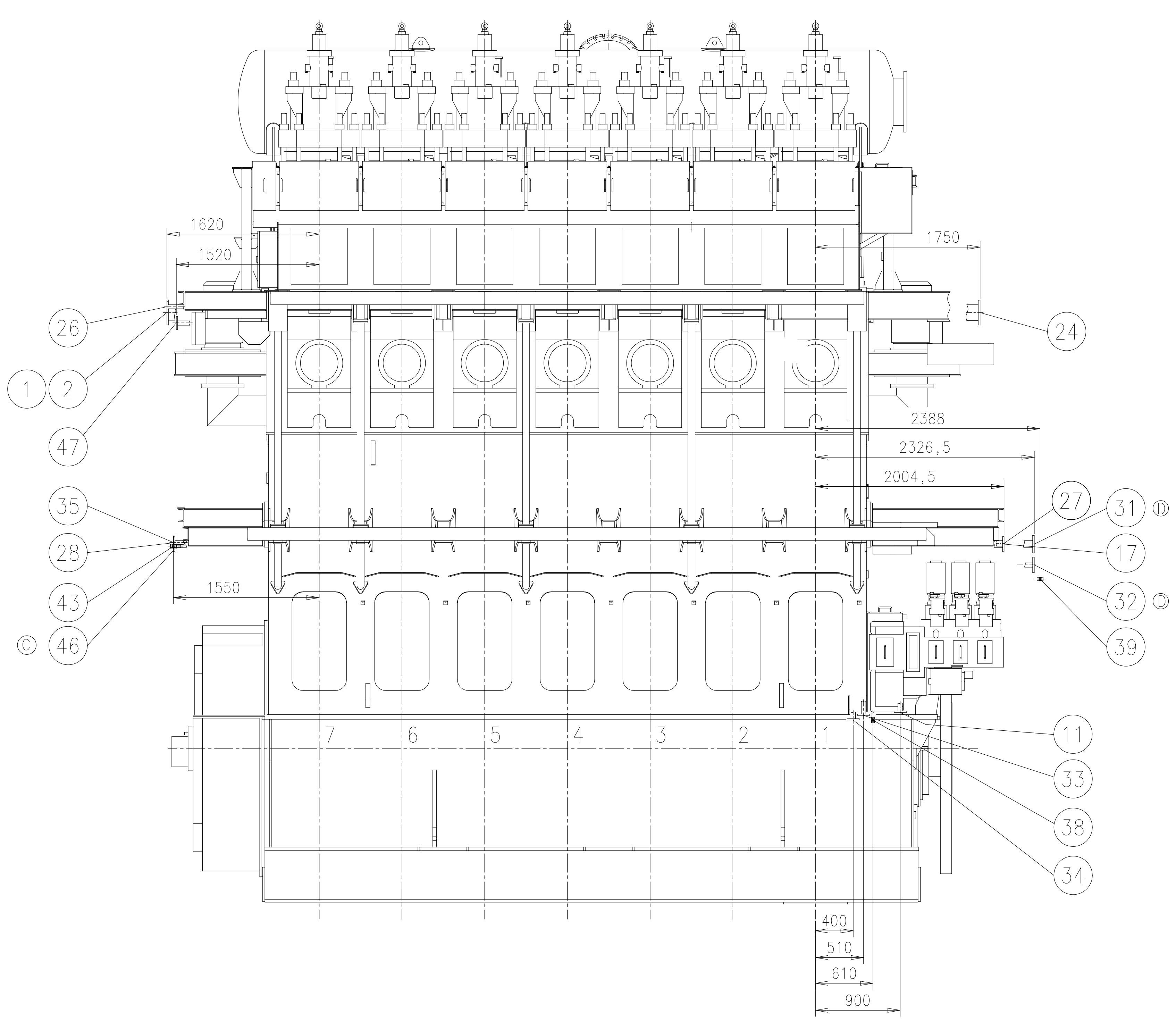
45 1:20



Freies Ende
FREE END



Brennstoffseite
FUEL SIDE



** Standard-Ausfuehrung
STANDARD EXECUTION

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

Ⓕ *4) SEE *DAAD116127

Net Weight						
0,001						

Quantity PER ENGINE	SEQ NO	Material ID	Material Name Dimension, Occ	Standard or Drawing	Basic Material Material Standard	Weight GR./NET
1	002	107.396.290.500	PIPE CONNECTION PLAN	107.396.290		0,001
1	001	107.396.289.500	PIPE CONNECTION PLAN	107.396.289		0,001

Approved

MaterialID 107.396.286.200	Free space for lic.		Q-Code XXXXX Standard ISO	Main Drw. H

Modif.	Ⓒ	7-68.512	18.03.2009	Ⓓ	7-70.124	10.11.2009	Ⓔ	7-78.359	01.02.2010	Ⓕ	EAAD094899	24.02.2021
		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date

WIN GD
Winterthur Gas & Diesel

Product
7RT-flex50-D

PIPE CONNECTION PLAN

Rohranschlussplan

Units mm kg	NX	⊏⊐ ⊕	Basic Material		Net Weight
Made	18.02.2008 sga006 Gasser	Scale 1:33	Size A0	Page 1/1	Material ID
Chkd		Design Group 8020	Drawing ID 107.396.286		Rev. F
Appd	19.02.2008 SGA006 Gasser				

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015

ASD - ASSEMBLY DRAWING - Internal

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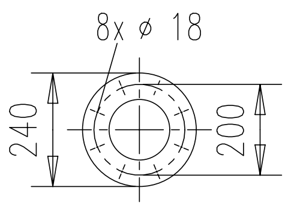
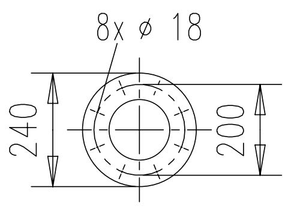
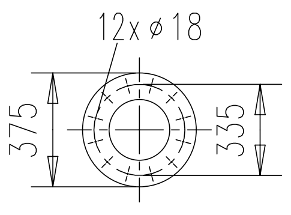
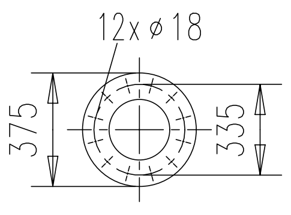
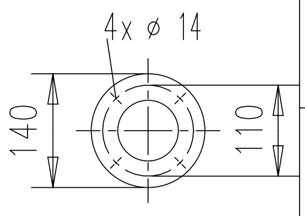
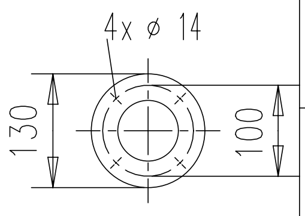
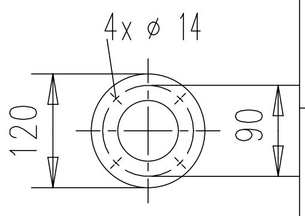
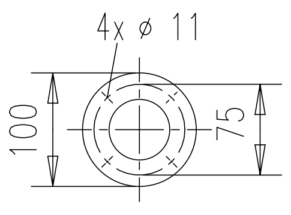
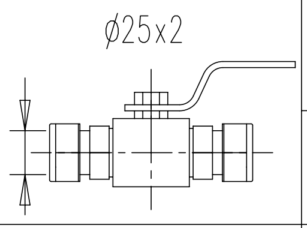
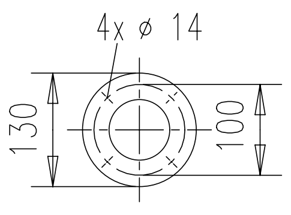
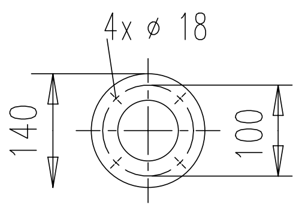
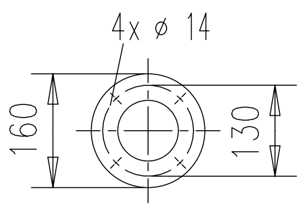
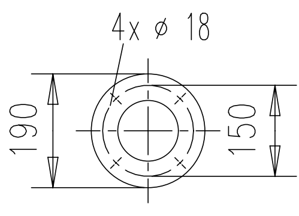
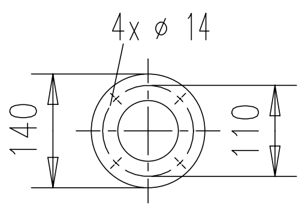
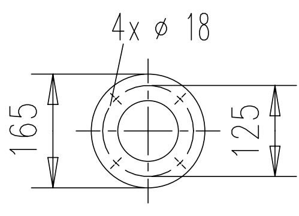
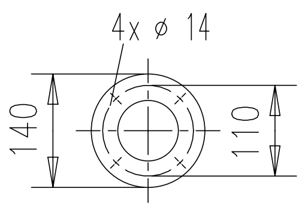
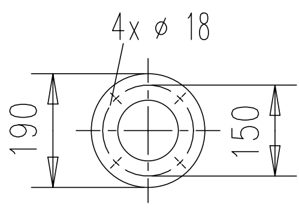
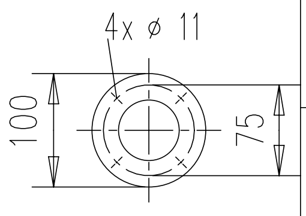
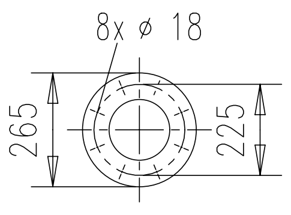
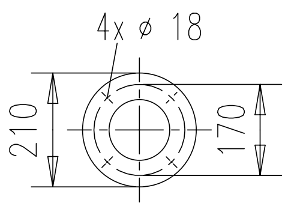
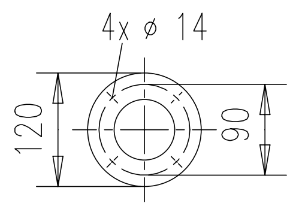
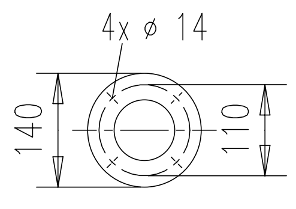
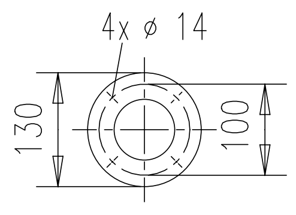
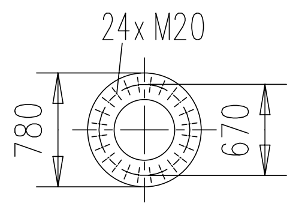
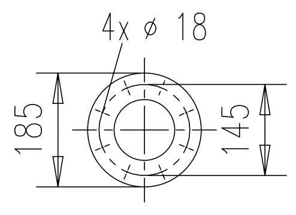
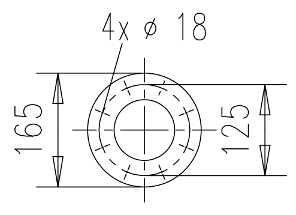
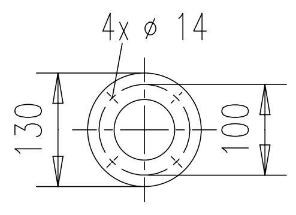
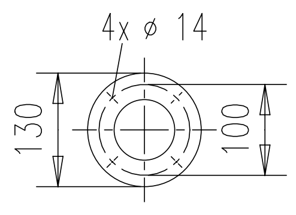
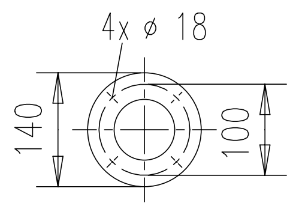
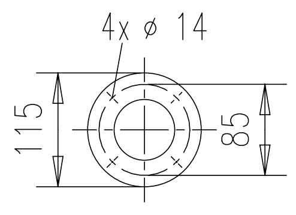
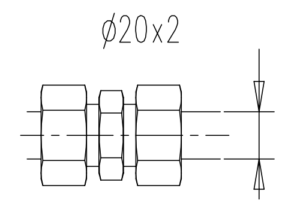
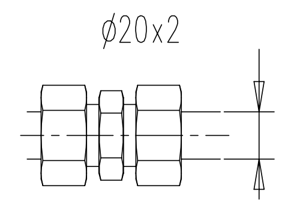
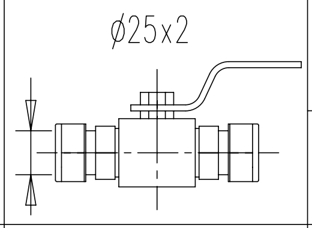
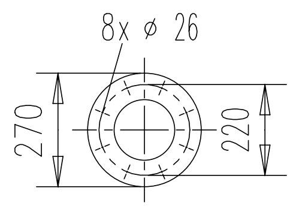
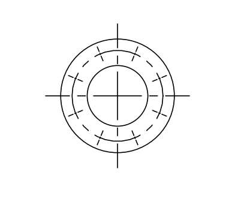
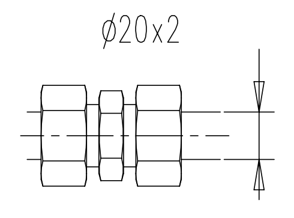
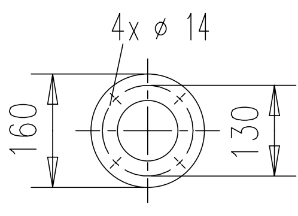
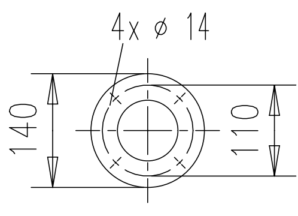
	No.				Ko.Gr. KO.GR.	Freies Ende FREE END	Antriebseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
						Leitungs-Anschluesse PIPE-CONNECTIONS			
	①	8x ø 18 240 200	Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN 125 PN 6	8305	X			
	②	8x ø 18 240 200	Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN 125 PN 6	8310	X			
	③								
	④								
Ⓔ	⑤ **	12x ø 18 375 335	SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN 250 PN 6	8335			X	
	⑥								
Ⓔ	⑦ **	12x ø 18 375 335	SLK Leitung Kuehlwasser Austritt SAC PIPE COOLING WATER OUTLET	DN 250 PN 6	8335			X	
	⑧								
	⑨								
	⑩	4x ø 14 140 110	Sammlelleitung Kondenswasser SLK Entlueftung Austritt COLLEC. MAIN CONDENSATE WATER SAC Venting OUTLET	DN 50 PN 6	8357			X	
	⑪	4x ø 14 130 100	Oelablaufleitung Versorgungseinheit Austritt OIL PIPE DRAIN SUPPLY UNIT OUTLET	DN 40 PN 6	8454				X
	⑫	4x ø 14 120 90	Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN 32 PN 6	8313		X		
Ⓔ	⑬ * **	4x ø 11 100 75	Entlueftung/Entleerung SLK VENTING/DRAIN SAC	DN 25 PN 6	8314			X	
	⑭	Ø25x2	Wasser-/Luftltg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN 20 PN 16	8338			X	
	⑮	4x ø 14 130 100	Waschanlage TL Schmutzwasser Austritt WASHING PLANT TC DIRTY WATER OUTLET	DN 40 PN 6	8354			X	
Ⓔ	⑯	4x ø 18 140 100	Zylinderkuehlwasserleitung Entlueftung CYLINDER COOLING WATER PIPE VENTING	DN PN		Nicht benoetigt NOT USED			
	⑰	4x ø 14 160 130	Leckoelleitung Auslassventil DE OIL LEAKAGE PIPE EXAUST VALVE DE	DN 65 PN 6	8480		X		
	⑱	4x ø 18 190 150	Oelleitung Turbolader Austritt OIL PIPE TURBOCHARGER OUTLET	DN 80 PN 6	8431			X	
	⑲	4x ø 14 140 110	Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN 50 PN 6	8357			X	
	⑳	4x ø 18 165 125	Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN 50 PN 16	8357			X	
	㉑	4x ø 14 140 110	Sammelltg. Oelwasser Wasserabsch. COLLECTOR MAIN OILWATER WATER SEP.	DN 50 PN 6	8352			X	
	㉒	4x ø 18 190 150	Oelsystem TL Entlueftung OIL SYSTEM TC VENTING	DN 80 PN 6	8610			X	
	㉓	4x ø 11 100 75	Sammelleitung Leckoel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN 25 PN 6	8463		X		
	㉔	8x ø 18 265 225	Oelleitung Eintritt OIL PIPE INLET	DN 150 PN 6	8406		X		
	㉕	4x ø 18 210 170	Sammelltg. Schmutzoel Kolbenu.seite COLLECTOR MAIN DIRTY OIL PIST.U.SIDE	DN 100 PN 6	8487			X	

	No.				Ko.Gr. KO.GR.	Freies Ende FREE END	Antriebseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
						Leitungs-Anschluesse PIPE-CONNECTIONS			
Ⓑ	㉖	4x ø 14 120 90	Zylinderschmieroelleitung Eintritt CYL. LUBRICATING OIL PIPE INLET	DN 32 PN 6	CLU3 7206 Pulse 8475	X			
	㉗	4x ø 14 140 110	Sammelleitung Automatikfilter Austritt FLUSHING OIL PIPE AUTOMATIC FILTER OUTLET	DN 50 PN 6	8445		X		
	㉘	4x ø 14 130 100	Sammelleitung Leckoel Stopfbuechse COLL. MAIN LEAKAGE OIL GLAND BOX	DN 40 PN 6	8488	X			
	㉙								
Ⓔ	㉚ **	24x M20 780 670	Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)	DN PN	1110	X	X		
	㉛	4x ø 18 185 145	Brennstoff Eintritt FUEL OIL INLET	DN 65 PN 16	8702		X		
	㉜	4x ø 18 165 125	Brennstoff Austritt FUEL OIL OUTLET	DN 50 PN 16	8704		X		
	㉝	4x ø 14 130 100	Leckbrennstoffleitung RAIL-UNIT FUEL LEAKAGE PIPE RAIL-UNIT	DN 40 PN 6	8740				X
	㉞	4x ø 14 130 100	Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN 40 PN 6	8741				X
	㉟	4x ø 18 140 100	Feuerloeschleitung FIRE EXTINGUISHING PIPE	DN 32 PN 16	8830	X			
	㊱	4x ø 14 115 85	Heizltg. Brennstoff Eintr/Austr Eintritt HEATING PIPE FUEL INLET/OUTLET INLET	DN 25 PN 16	8810	X			
Ⓓ	㊲ *								
	㊳	Ø20x2	Heizltg. Brennstoff Eintr/Austr Austritt HEATING PIPE FUEL INLET/OUTLET OUTLET	DN 15 PN 16	8810				X
	㊴	Ø20x2	Heizltg. Brennstoff Eintr/Austr Austritt HEATING PIPE FUEL INLET/OUTLET OUTLET	DN 15 PN 16	8810		X		
Ⓐ	㊵	Ø25x2	Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN 20 PN 16	8338			X	
	㊶	8x ø 26 270 220	Anlassluftleitung Eintritt STARTING AIR PIPE PIPE INLET	DN 125 PN 40	8605		X		
Ⓔ	㊷ *		Ablassventil fuer "WASTE GATE" EXHAUST WASTE GATE	DN PN	8135	IF USED, SEE DAAD116127			
	㊸	Ø20x2	Steuerluftversorgung 6.5 bar: A1 CONTROL AIR SUPPLY	DN 15 PN 8	8630				X
	㊹	siehe Zchng 1 SEE DRAWING 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509			X	
	㊺	siehe Zchng 1 SEE DRAWING 1	Bypass zur Auspuffleitung (fuer Motoren mit einem Tutbolader) EXHAUST BY-PASS (FOR ENGINES WITH ONE TURBOCHARGER)		8103 8108			X	
Ⓐ Ⓒ	㊻	4x ø 14 160 130	Entlueftungsltg. Kurbelgehaeuse VENTING PIPE CRANKCASE	DN 65 PN 6	8608	X			
	㊼	4x ø 14 140 110	Oel Zu/Ablaufleitung Servosystem Austritt OIL INLET/DRAIN PIPE SERVO SYSTEM OUTLET	DN 50 PN 6	8448	X			

Ⓔ * Optionelle Ausfuehrung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)

** Standard-Ausfuehrung
STANDARD EXECUTION

gezeichnet fuer Turbolader
DRAWN FOR TURBOCHARGER
1x A175

Free space for lic.									Q-Code XXXXX Standard ISO		Main Drw.
Modif.	Ⓑ	7-65.109	22.07.2008	Ⓒ	7-68.512	18.03.2009	Ⓓ	7-78.359	01.02.2010	Ⓔ EAAD094899	24.02.2021
		Number	Drawn date		Number	Drawn date		Number	Drawn date	Number	Drawn date

WIN GD
Winterthur Gas & Diesel

Product
5-7RT-flex50-D

PIPE CONNECTION PLAN

Rohranschlussplan

Units mm kg	NX		Basic Material		Net Weight 0.001
Made	12.02.2008 sga006 Gasser	Scale 1:1	Size A1	Page 1/1	Material ID 107.396.289.500
Chkd		Design Group 8020	Drawing ID 107.396.289		Rev. E
Appd	19.02.2008 SGA006 Gasser				

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015

Approved

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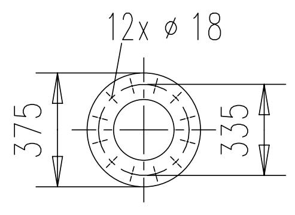
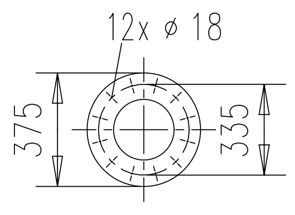
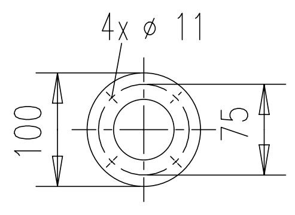
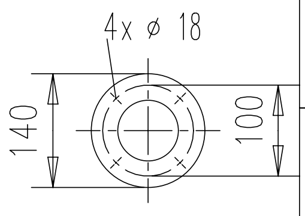
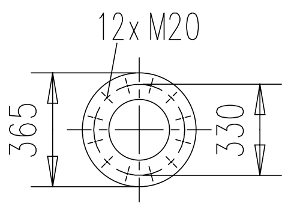
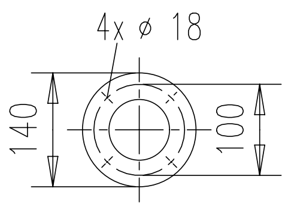
				Ko.Gr. KO.GR.	Leitungs-Anschluesse PIPE-CONNECTIONS Freies Ende FREE END	Antriebseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
①								
②								
③								
④								
Ⓑ ⑤ **		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN 250 PN 6	8335			X	
⑥								
Ⓑ ⑦ **		SLK Leitung Kuehlwasser Austritt SAC PIPE COOLING WATER OUTLET	DN 250 PN 6	8335			X	
⑧								
⑨								
⑩								
⑪								
⑫								
Ⓑ ⑬ * **		Entlueftung/Entleerung SLK VENTING/DRAIN SAC	DN 25 PN 6	8314			X	
⑭								
⑮								
Ⓑ ⑯		Zylinderkuehlwasserleitung Entlueftung CYLINDER COOLING WATER PIPE VENTING	DN PN		Nicht benoetigt NOT USED			
⑰								
⑱								
⑲								
⑳								
㉑								
㉒								
㉓								
㉔								
㉕								

				Ko.Gr. KO.GR.	Leitungs-Anschluesse PIPE-CONNECTIONS Freies Ende FREE END	Antriebseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
㉖								
㉗								
㉘								
Ⓑ ㉙ *		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN PN	1110	X	X		
㉚								
㉛								
㉜								
㉝								
㉞								
㉟								
㊱								
Ⓐ Ⓑ ㊲ *		Feuerloeschleitung RU Eintritt FIRE EXTINGUISHING PIPE RU INLET	DN 32 PN 16	8832	X			
㊳								
㊴								
㊵								
㊶								
㊷								
㊸								
㊹								
㊺								
㊻								
㊼								

Ⓑ * Optionelle Ausfuehrung (wenn verlangt)
OPTIONAL EXECUTION (IF REQUIRED)

Ⓑ
** Standard-Ausfuehrung
STANDARD EXECUTION

gezeichnet fuer Turbolader
DRAWN FOR TURBOCHARGER
1x A175

Approved

Free space for lic.							Q-Code XXXXX Standard ISO	Main Drw.
Modif.	Ⓐ 7-78.359 Number	01.02.2010 Drawn date	Ⓑ EAAD094899 Number	24.02.2021 Drawn date	○ Number	Drawn date	○ Number	Drawn date

Winterthur Gas & Diesel

Product
6-8RT-flex50-D

PIPE CONNECTION PLAN

Rohranschlussplan

SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015

Units mm kg	NX		Basic Material	Net Weight 0,001
Made 12.02.2008 sga006 Gasser	Scale 1:1	Size A1	Page 1/1	Material ID 107.396.290.500
Chkd	Design Group 8020	Drawing ID 107.396.290		Rev. B
Appd 19.02.2008 SGA006 Gasser				

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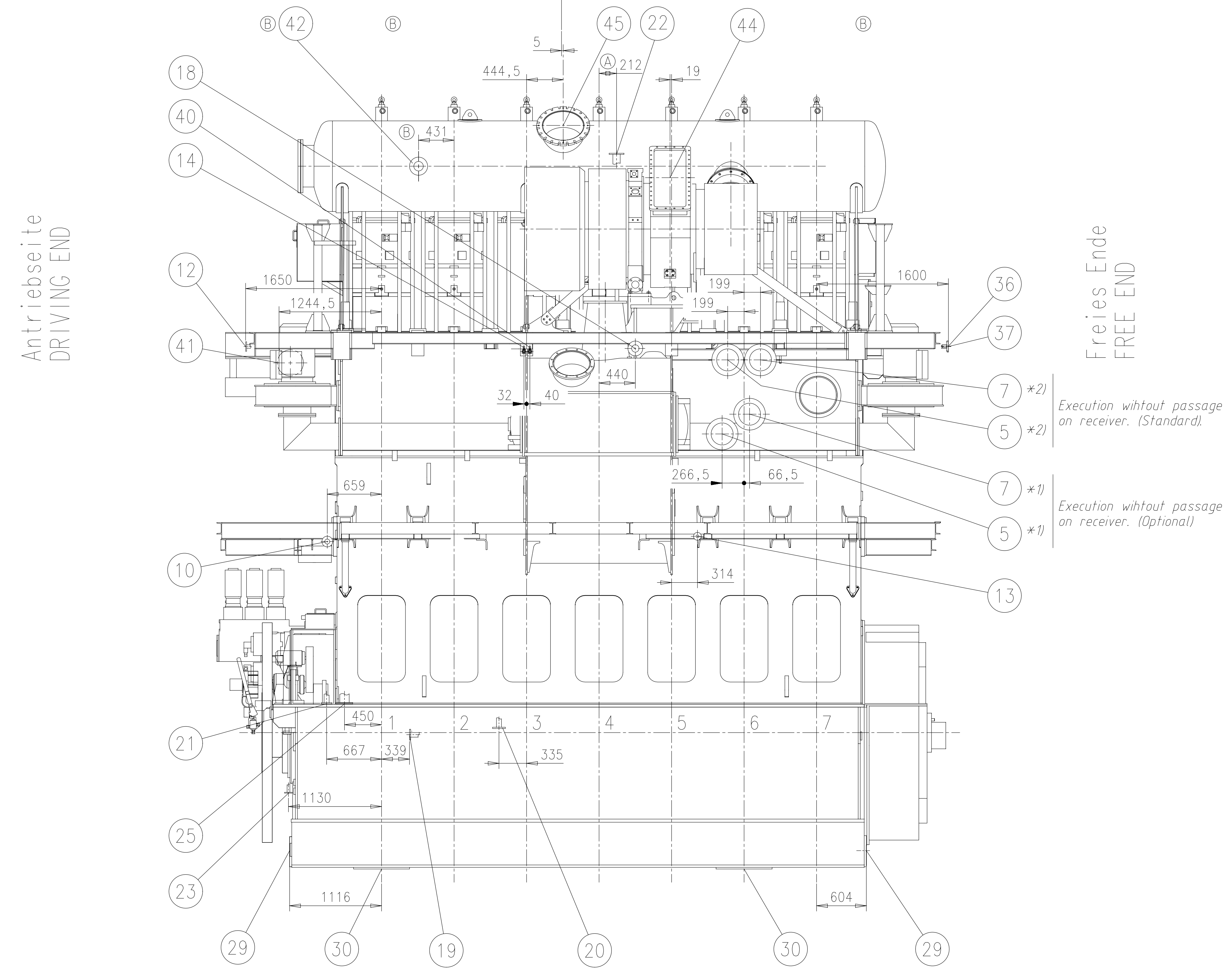
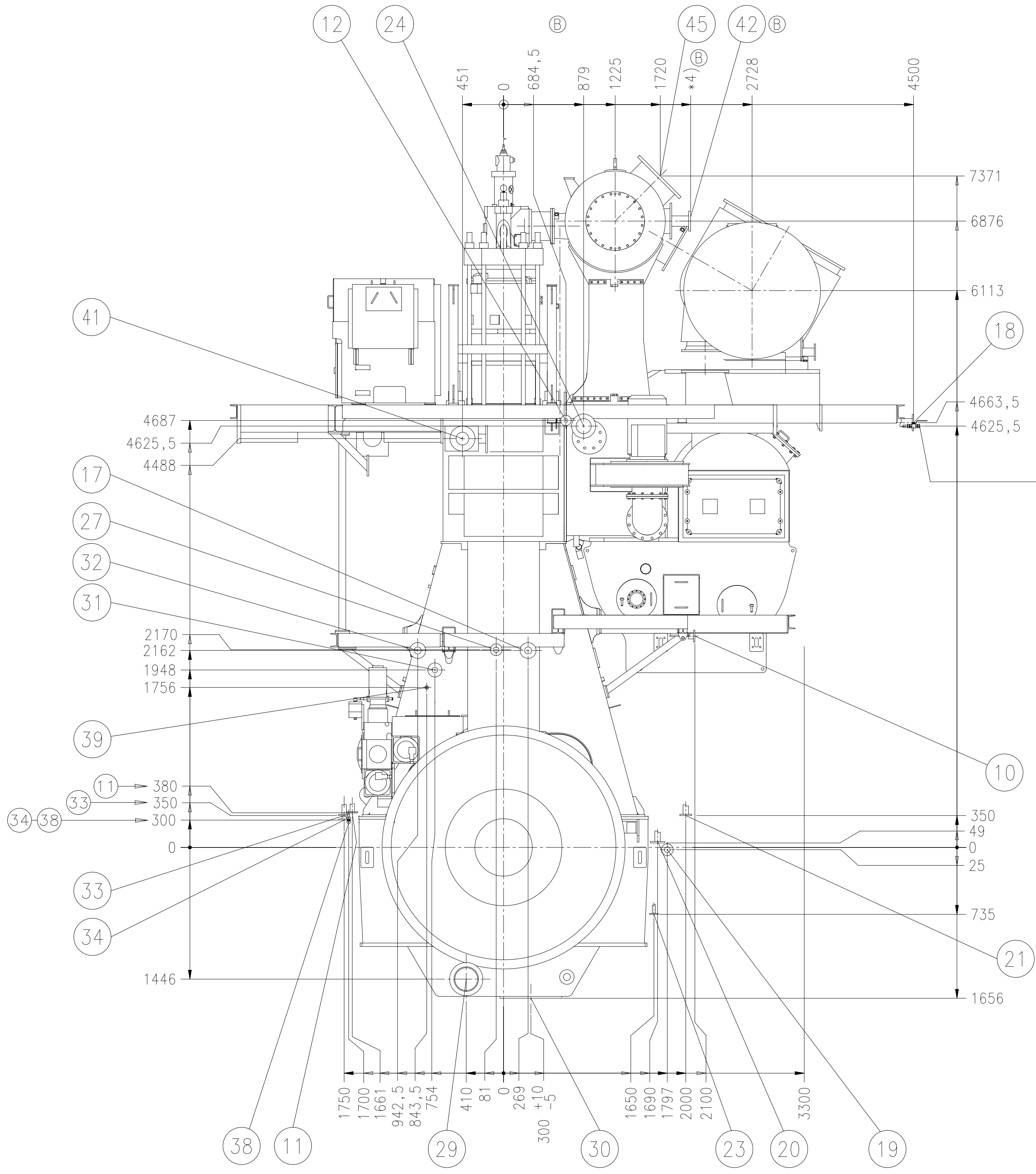
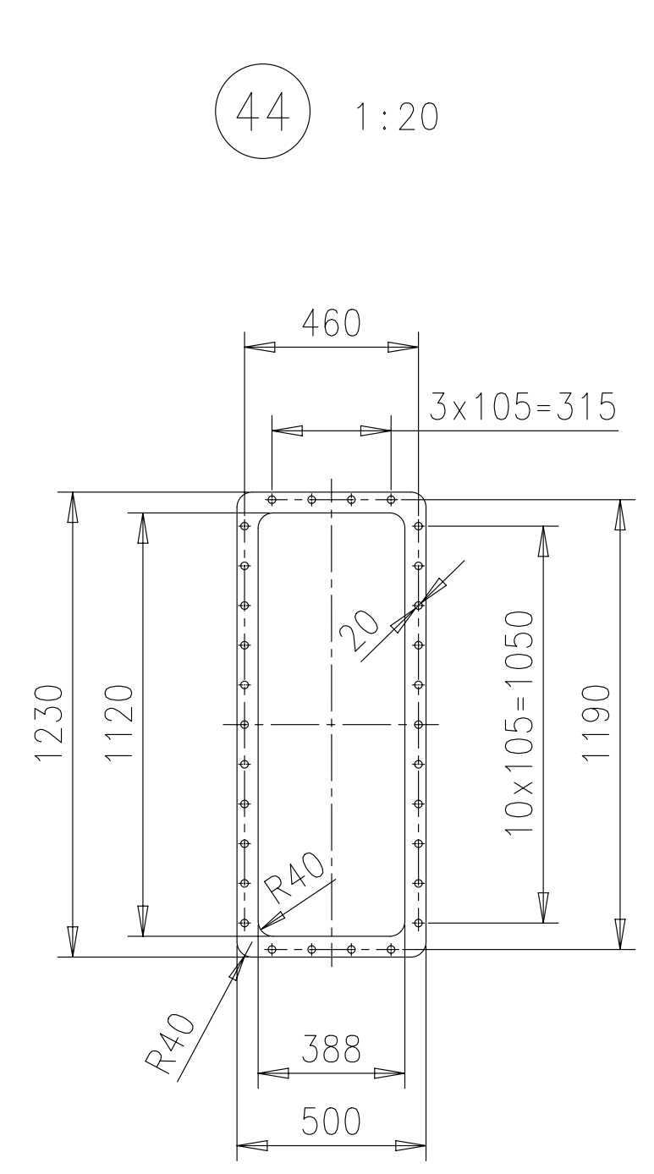
Abgasseite
EXHAUST SIDE

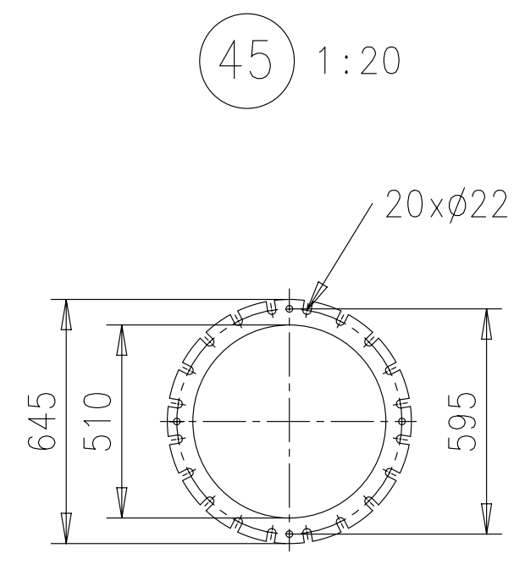
Beim Montieren der Leitung ist die Waermeausdehnung von 5 mm gegen Freies Ende von der theor. Mitte aus zu beruecksichtigen
WHEN ASSEMBLING THE PIPING THE THERMAL EXPANSION OF 5 MM TOWARDS THE FREE END FROM THE THEORETICAL CENTRE IS TO BE CONSIDERED



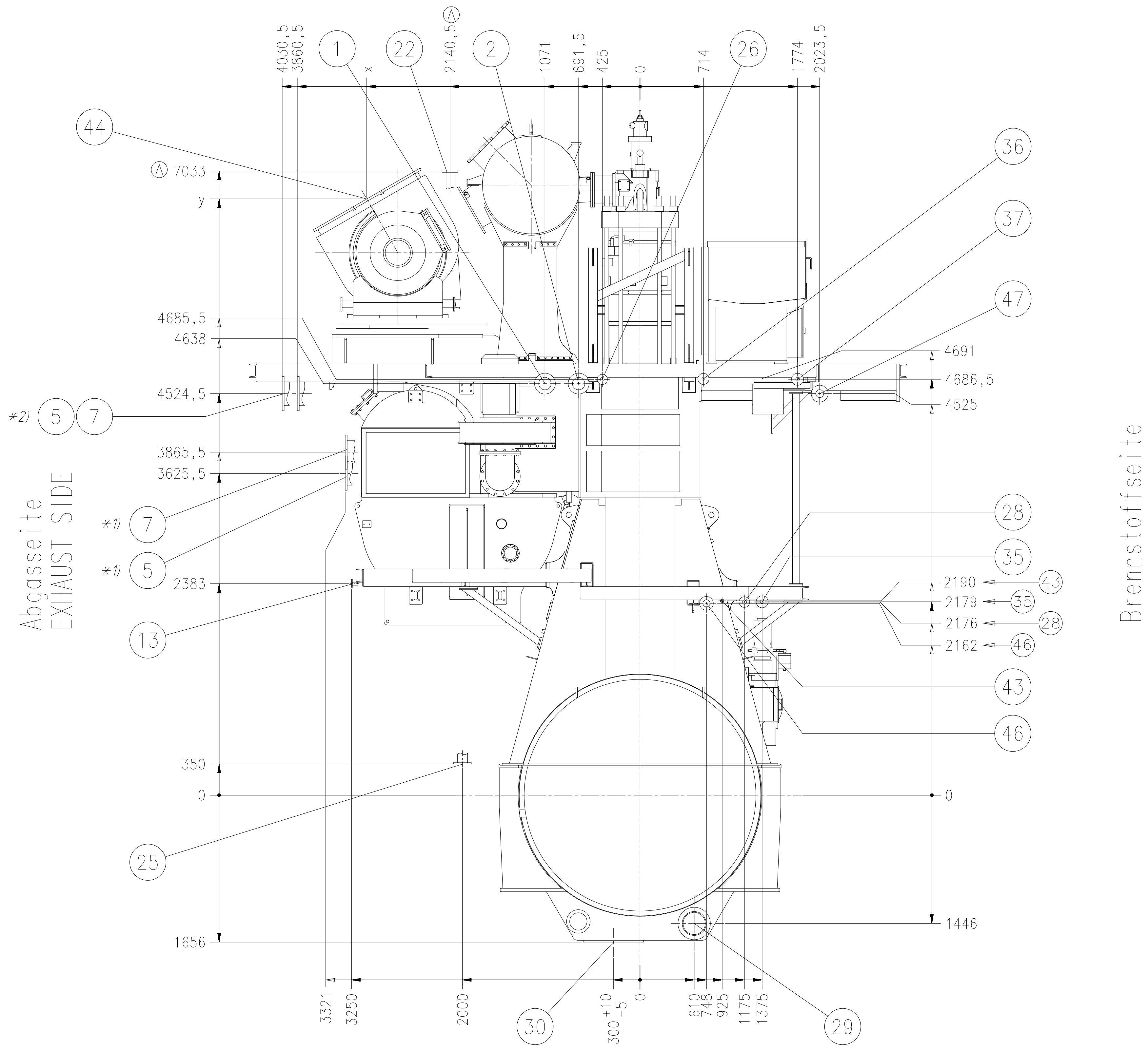
Antriebseite
DRIVING END



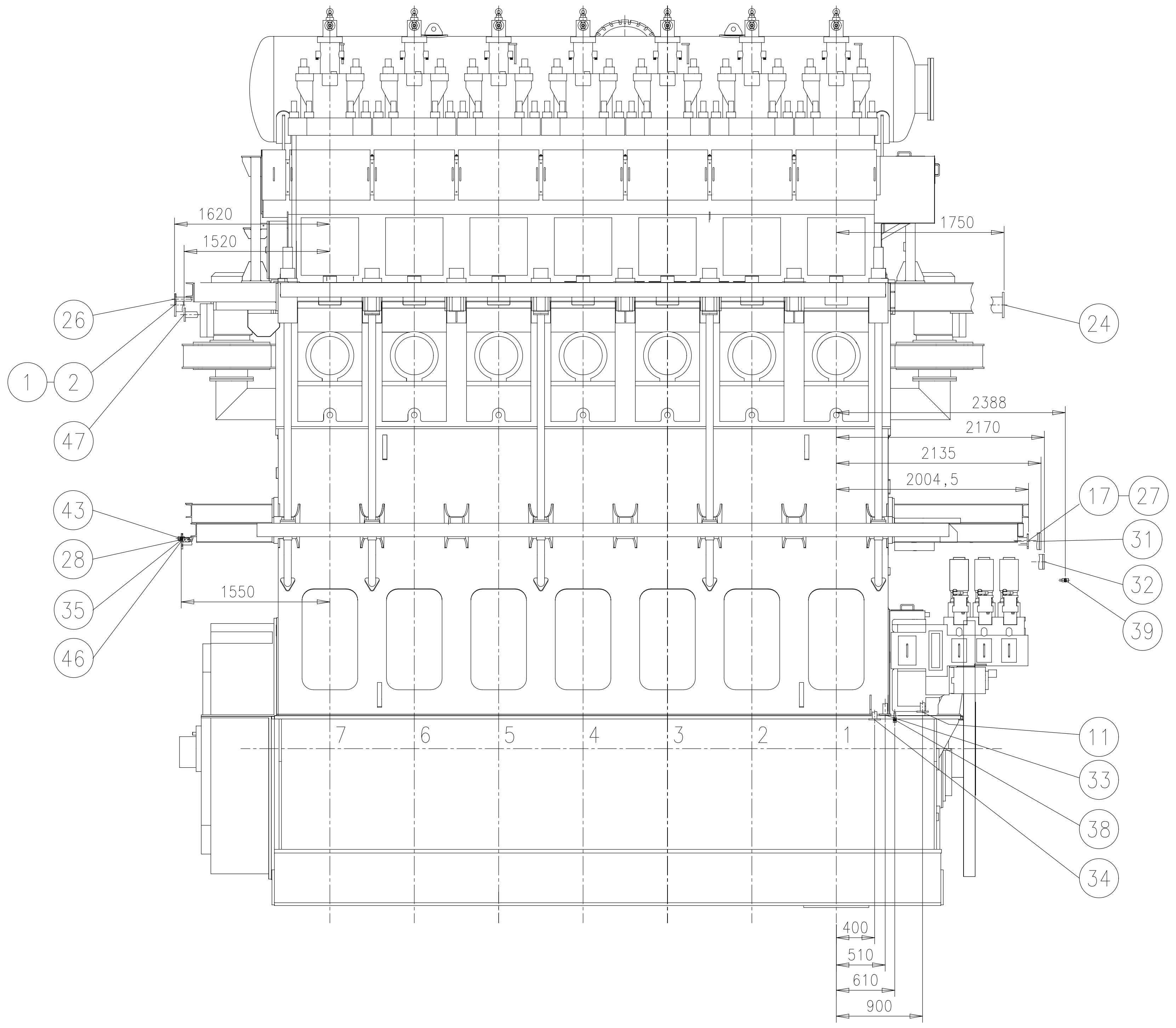




Freies Ende
FREE END



Brennstoffseite
FUEL SIDE



Gasaustritt-Stellung GAS OUTLET POSITION	x	y
15°	2909	6789
30°	3078	6719
45°	3223	6608

Alle Flanschanschluesse am Motor sind mit Gegenflanschen versehen (Blindflansch), ausgenommen der Anschluss fuer 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.

**2) Standard Ausfuehrung*
STANDARD EXECUTION

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

Ⓑ *4)SEE *DAAD116127

Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
1	001	107.390.729.500	FLANGE DIMENSIONS	107.390.729		0,001

NetWeight 0,001
MaterialID PAAD089296
Free space for lic.
Q-Code XXXXX
Standard JIS
Main Drw. H

Modif.	Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date
–	EAAD083841	25.05.2012	A	EAAD091635	17.01.2020	B	EAAD094899	24.02.2021			

WIN GD
Winterthur Gas & Diesel

Product
7RT-flex50-D

PIPE CONNECTION PLAN

Rohranschlussplan

Units mm kg
NX
Basic Material
Net Weight
SURFACE PROTECTION SEE GROUP 0344
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK
Made 22.05.2012 mve023 Vetsch
Chkd 23.05.2012 ihe003 Herceg
Appd 24.05.2012 bha009 Haag
Scale 1:33
Design Group 8020
Size A0
Page 1/2
Material ID
Drawing ID DAAD028273
Rev. B

Approved

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					Ko.Gr. KO.GR.	Leitungs-Anschluesse PIPE-CONNECTIONS			
						Freies Ende FREE END	Antriebseite DRIVING END	Abgasseite EXHAUST SIDE	Brennstoffseite FUEL SIDE
	①		Kuehlwasserleitung Zylindereinsatz Eintritt COOLING WATER PIPE CYLINDER LINER INLET	DN 125 PN 5	8305	X			
	②		Zylinderkuehlwasserleitung Austritt CYLINDER COOLING WATER PIPE OUTLET	DN 125 PN 5	8310	X			
	③								
	④								
Ⓑ	⑤ *1) *2)		SLK Leitung Kuehlwasser Eintritt SAC PIPE COOLING WATER INLET	DN 250 PN 5	8335			X	
	⑥								
Ⓑ	⑦ *1) *2)		SLK Leitung Kuehlwasser Austritt SAC PIPE COOLING WATER OUTLET	DN 250 PN 5	8335			X	
	⑧								
	⑨								
	⑩		Sammelleitung Kondenswasser SLK Entlueftung Austritt COLLEC. MAIN CONDENSATE WATER SAC VENTING OUTLET	DN 50 PN 5	8357			X	
	⑪		Oelablaufleitung Versorgungseinheit OIL PIPE DRAIN SUPPLY UNIT	DN 40 PN 5	8454				X
	⑫		Kuehlwasser Entleerungsleitung COOLING WATER DRAIN PIPE	DN 32 PN 5	8313		X		
	⑬		Entlueftung/Entleerung SLK VENTING/DRAIN SAC	DN 25 PN 5	8314			X	
	⑭	Ø25x2	Wasser-/Luftltg. Reinigungsanlage (Wasseranschluss) WATER/AIR PIPE CLEANING PLANT (WATER CONNECTION)	DN 20 PN 16	8338			X	
	⑮								
Ⓑ	⑯		Zylinderkuehlwasserleitung Entlueftung CYLINDER COOLING WATER PIPE VENTING	DN PN		Nicht benoetigt NOT USED			
	⑰		Leckoelleitung Auslassventil DE LEAKAGE OIL PIPE EXHAUST VALVE DE	DN 65 PN 5	8480		X		
	⑱		Oelleitung Turbolader Austritt OIL PIPE TURBOCHARGER OUTLET	DN 80 PN 5	8431			X	
	⑲		Sammelleitung Kondenswasser SLK Kondenswasser Austritt COLLEC. MAIN CONDENSATE WATER SAC CONDENSATE WATER OUTLET	DN 50 PN 5	8357			X	
	⑳		Sammelleitung Kondenswasser SLK Waschwasser Austritt COLLEC. MAIN CONDENSATE WATER SAC WASHING WATER OUTLET	DN 50 PN 10	8357			X	
	㉑		Sammelltg. Oelwasser Wasserabsch. COLLECTOR MAIN OILWATER WATER SEP.	DN 50 PN 5	8352			X	
	㉒		Oelsystem TL Entlueftung OIL SYSTEM TC VENTING	DN 80 PN 5	8610			X	
	㉓		Sammelleitung Leckoel Grundplatte COLLECTOR MAIN LEAKAGE OIL BEDPLATE	DN 25 PN 5	8463		X		
	㉔		Oelleitung Eintritt OIL PIPE INLET	DN 150 PN 5	8406		X		
	㉕		Sammelltg. Schmutzoel Kolbenu.seite COLLECTOR MAIN DIRTY OIL PIST.U.SIDE	DN 100 PN 5	8487			X	
	㉖		Zylinderschmieroelleitung Eintritt CYL. LUBRICATING OIL PIPE INLET	DN 32 PN 5	CLU3 7206 Pulse 8475	X			
	㉗		Sammelleitung Automatikfilter Automatikfilter FLUSHING OIL PIPE AUTOMATIC FILTER OUTLET	DN 50 PN 5	8445		X		
	㉘		Sammelleitung Leckoel Stopfbuechse COLL. MAIN LEAKAGE OIL GLAND BOX	DN 40 PN 5	8488	X			
Ⓑ	㉙ *1)		Grundplatte Oelablauf (Horizontal) BEDPLATE OIL DRAIN (HORIZONTAL)	DN PN	1110	X	X		
Ⓑ	㉚ *2)		Grundplatte Oelablauf (Vertikal) BEDPLATE OIL DRAIN (VERTICAL)	DN PN	1110	X	X		
	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 40 PN 5	8740				X
	㉞		Leckbrennstoffltg. Einspritzventil FUEL LEAKAGE PIPE INJECTION VALVE	DN 40 PN 5	8741				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			
Ⓑ	㊲ *1)		Feuerloeschleitung RU Eintritt FIRE EXTINGUISHING PIPE RU INLET	DN 32 PN 16	8832	X			
	㊳	Ø20x2	Heizltg. Brennstoff Eintr/Austr Austritt HEATING PIPE FUEL INLET/OUTLET OUTLET	DN 15 PN 16	8810				X
	㊴	Ø20x2	Heizltg. Brennstoff Eintr/Austr Austritt HEATING PIPE FUEL INLET/OUTLET OUTLET	DN 15 PN 16	8810		X		
	㊵	Ø25x2	Wasser-/Luftltg. Reinigungsanlage (Luftanschluss) WATER/AIR PIPE CLEANING PLANT (AIR CONNECTION)	DN 20 PN 16	8338			X	
	㊶		Anlassluftleitung Eintritt STARTING AIR PIPE PIPE INLET	DN 125 PN 30	8605		X		
Ⓑ	㊷ *1)		Ablassventil fuer "WASTE GATE" EXHAUST WASTE GATE	DN PN	8135	IF USED, SEE DAAD116127			
	㊸	Ø20x2	Steuerluftversorgung 6,5 bar: A1 CONTROL AIR SUPPLY	DN 15 PN 8	8630				X
	㊹	siehe Zchng 1 SEE DRAWING 1	Turbolader Gasaustritt TURBOCHARGER GAS OUTLET		6506 6509			X	
	㊺	siehe Zchng 1 SEE DRAWING 1	Bypass zur Auspuffleitung (fuer Motoren mit einem Turbolader) EXHAUST BY-PASS (FOR ENGINES WITH ONE TURBOCHARGER)		8103 8108				
	㊻		Entlueftungsltg. Kurbelgehaeuse VENTING PIPE CRANKCASE	DN 65 PN 5	8608	X			
	㊼		Oel Zu/Ablaufleitung Servosystem Austritt OIL INLET/DRAIN PIPE SERVO SYSTEM OUTLET	DN 50 PN 5	8448	X			

*2) Standard Ausfuehrung
STANDARD EXECUTION

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

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

Free space for lic.						Q-Code XXXXX Standard JIS	Main Drw. H
Modif.	– EAAD083841 25.05.2012	Number	Drawn date	A EAAD091635 17.01.2020	B EAAD094899 24.02.2021	Number	Drawn date
Winterthur Gas & Diesel	Product 7RT-flex50-D	PIPE CONNECTION PLAN Rohranschlussplan					
Units mm kg	NX		Basic Material			Net Weight	
Made	22.05.2012 mve023 Vetsch	Scale 1:1	Size A1	Page 2/2	Material ID		
Chkd	23.05.2012 ihe003 Herceg	Design Group 8020	Drawing ID DAAD028273			Rev. B	
Appd	24.05.2012 bha009 Haag						

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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			
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			
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			
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			
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			
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			
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			
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		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date		Number	Drawn Date
	A	EAAD084180	04.10.2012									

WÄRTSILÄ

Product
W-2S

Flange Dimensions

Made	19.09.2007	N. Brand	Main Drw.	
Chkd	27.09.2007	M. Frei	Design Group	**8020**
Appd	27.09.2007	B. Haag		

Page 1 / 1

Material ID **107.390.729.500**

Drawing ID **107.390.729**

Rev **A**

WinGD – 7RT-flex50-D_Pipe Connection Plan

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-02-26	DRAWING SET	First web upload
2020-08-27	DAAD028273	Revised Pipe Connection Plan for Turbocharger Type 1xMET 60MB has been updated.
2021-05-22	107.396.286.200 PAAD089296	Revised Pipe Connection Plans for Turbocharger Types 1xA175 & 1xMET 60MB have been updated.

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