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1	1	PAAI	D177914	LUBRICATING	OIL SYSTEM							(0.001
2	1	PAAI	D245338	LUBRICATING	OIL SYSTEM							(0.001
3	1	PAA	D204254	LUBRICATING	G OIL DRAIN TANK	((0.001
4	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING								0.001
5	1	PAAI	D178480	LUBRICATING	G OIL DRAIN TANK	((0.001
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	QTY	Y Item II	D	Item Name			Dimer	nsion Standard-ID	Ва	asic Material		V	Net Neight
1	1	PAAI	D177914	LUBRICATING	G OIL SYSTEM							(0.001
3	1	PAAI	D204254	LUBRICATING	G OIL DRAIN TANK	((0.001
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J	'	1700	J110400										0.001
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ı		PAA	177914	LUDDICATING	NOU CVCTEM							J.UU I
2	1	PAA	D245338	LUBRICATING	GOIL SYSTEM						C	0.001
3	1	PAA	D178472	LUBRICATING	OIL DRAIN TANK						C	0.001
4	1	107.	341.455.500	INSTRUCTION	N FOR FLUSHING						C	0.001
5	1	PAA	D178480	LUBRICATING	GOIL DRAIN TANK	(C	0.001
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	α.	Y Item II	D	Item Name			Dimens	sion Standard-ID	Basic Material		V	Net Veight
1	1	PAAI	D177914	LUBRICATING	OIL SYSTEM						(0.001
3	1	PAAI	D178472	LUBRICATING	OIL DRAIN TANK	((0.001
4	1	107.3	341.455.500	INSTRUCTION	N FOR FLUSHING							0.001
5	1		D178480	LUBRICATING	G OIL DRAIN TANK	(0.001
	'	1 AAI	J110 1 00									0.001
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Q O	QTY	Item ID	Item Name Dimension	Standard-ID	Basic Material	Ne Weigh
	1	PAAD177914	LUBRICATING OIL SYSTEM			0.00
	1	PAAD245338	LUBRICATING OIL SYSTEM			0.00
	1	PAAD277820	LUBRICATING OIL DRAIN TANK			24
	1	107.341.455.500	INSTRUCTION FOR FLUSHING			0.00
	1	PAAD178480	LUBRICATING OIL DRAIN TANK			0.00

Prod.			7 X52						
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	Rev.	Creator	Approver	Approval Date	Change ID	Change Synopsis	Activity Code	Е	С



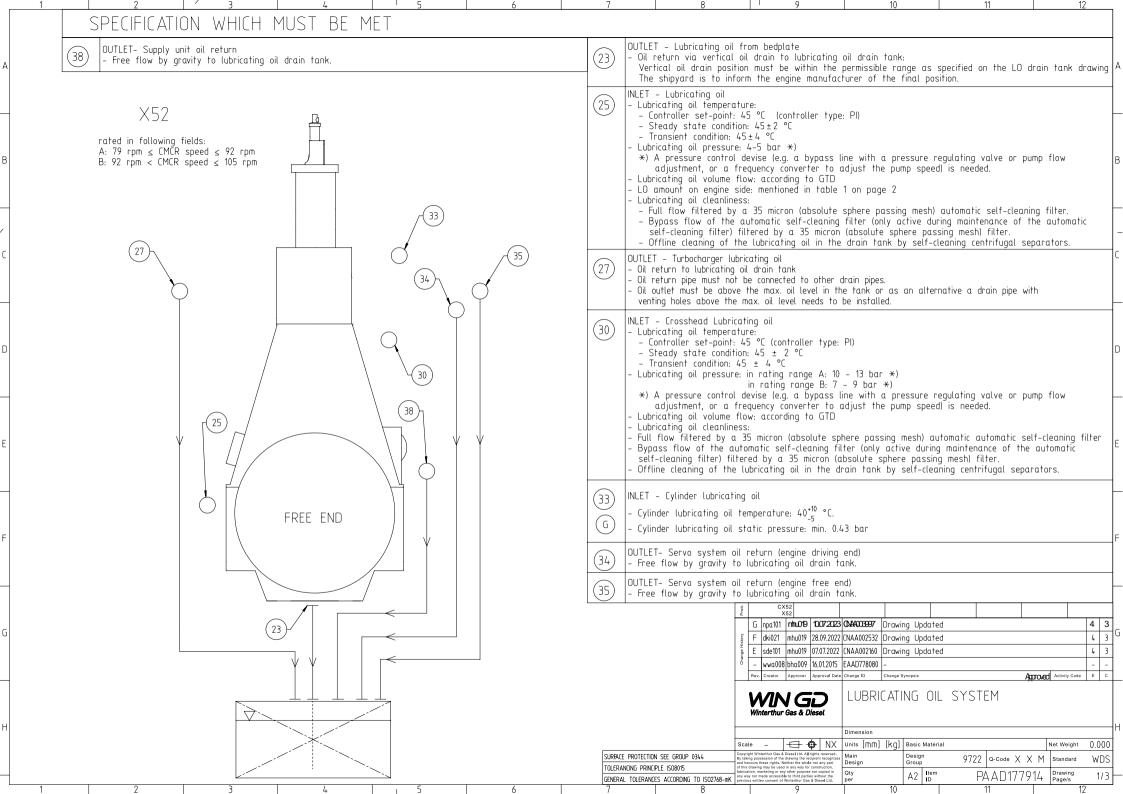
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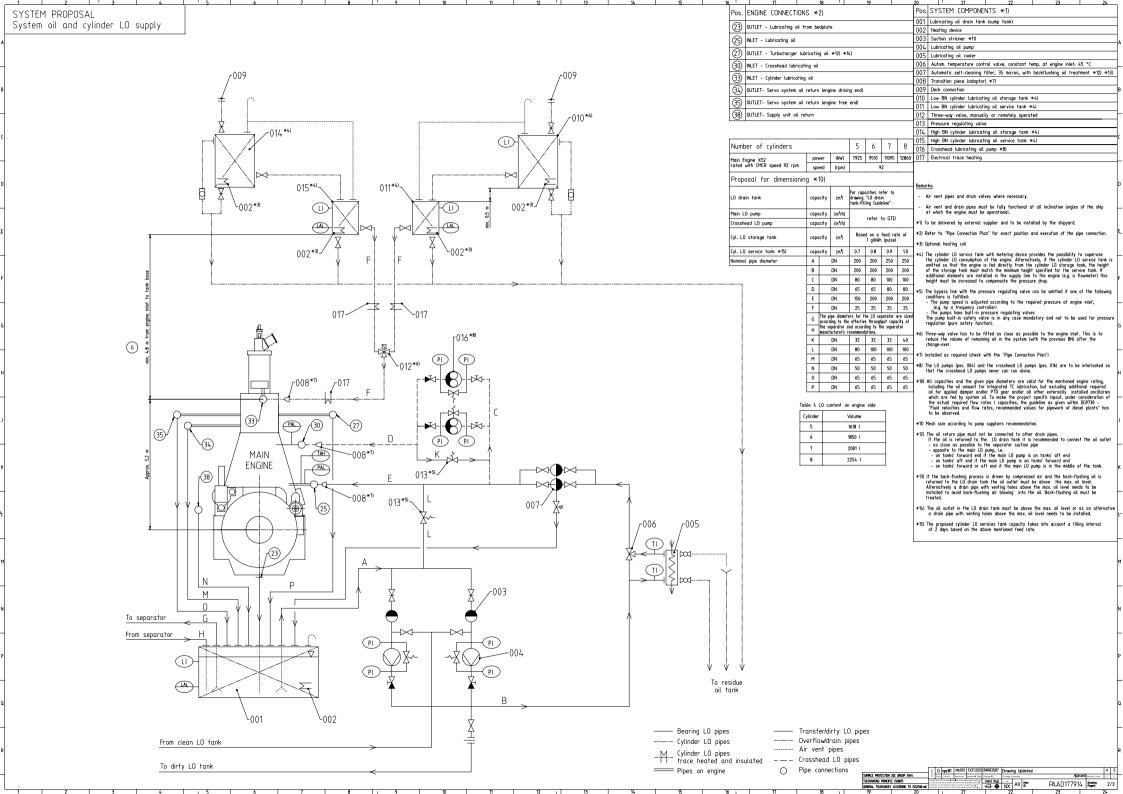
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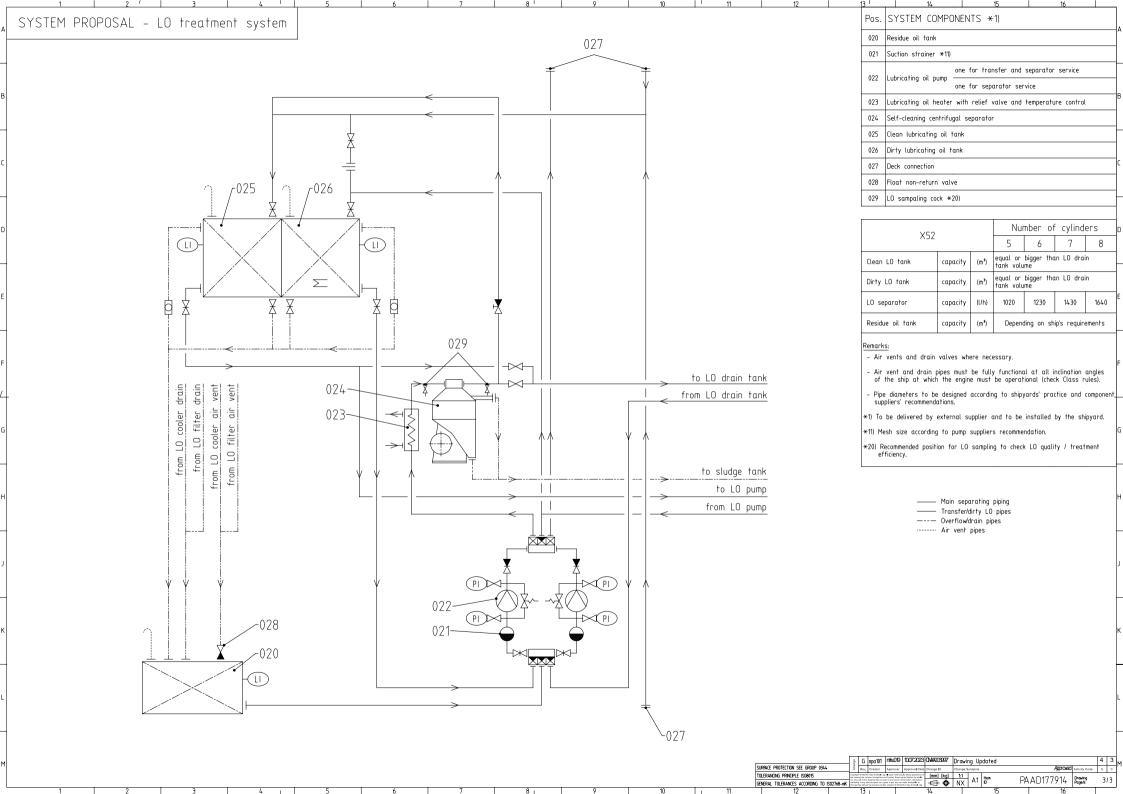
Bill Of Material	Dimension
Copyright Winterthur Gas & Diesel Ltd. All rights reserved. By taking possession of the document the recipient	Units
recognizes and honours these rights. Neither the whole nor any part of this document may be used in any way for	Main Design
construction, fabrication, marketing or any other purpose nor copied in any way nor made accessible to third parties without the previous written consent of Winterthur Gas & Diesel Ltd.	Qty per

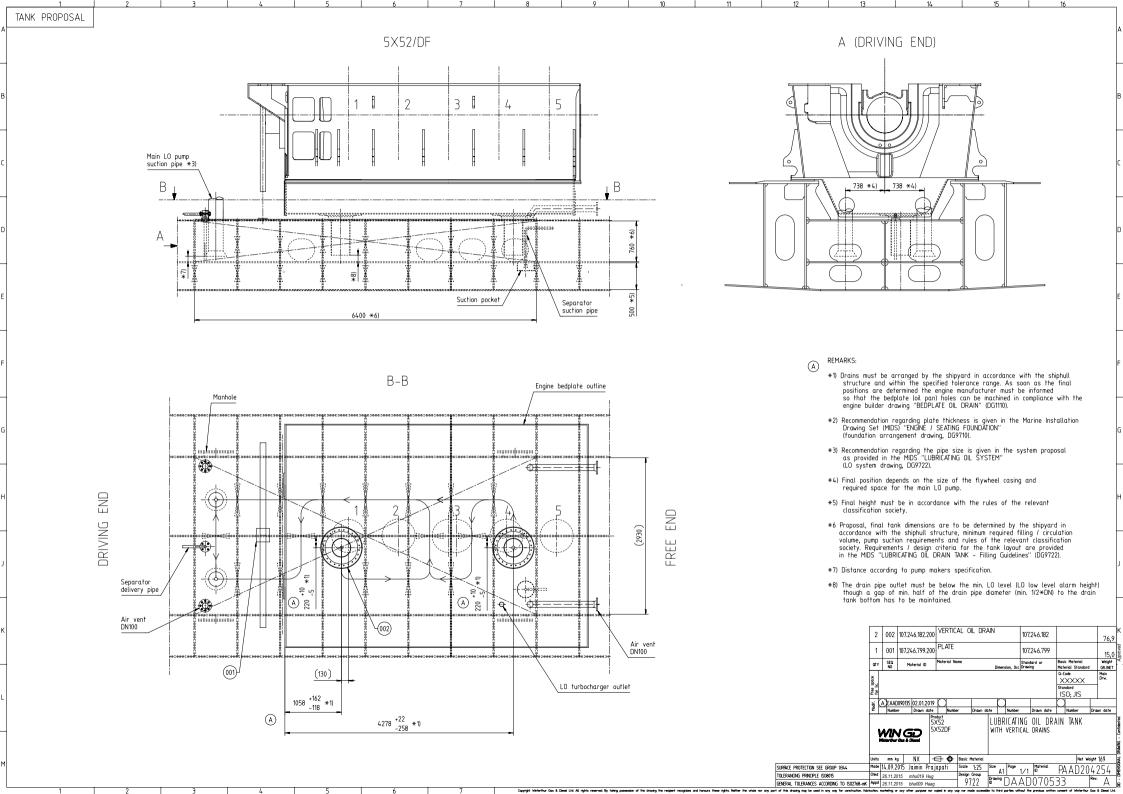
d. nt	Units	[m] [kg]	Basic Mat	terial				Net Weight	246
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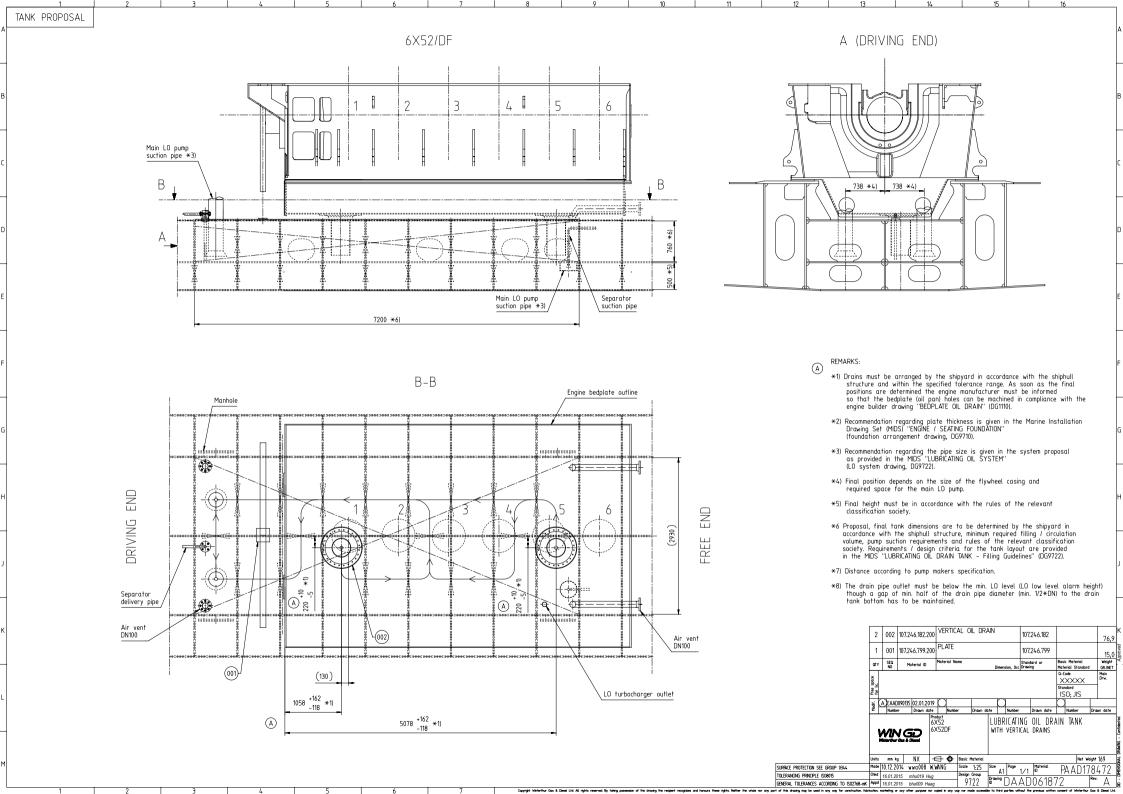
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1	1	PAAD	177914	LUBRICATIN	G OIL SYSTEM						(0.001
3	1	PAAD	277820	LUBRICATIN	G OIL DRAIN TANK							246
4	1	107.3	41.455.500	INSTRUCTIO	N FOR FLUSHING							0.001
				LUBRICATIN	G OIL DRAIN TANK	,						
5	1	PAAD	178480									0.001
Prod.												
			7 X52									
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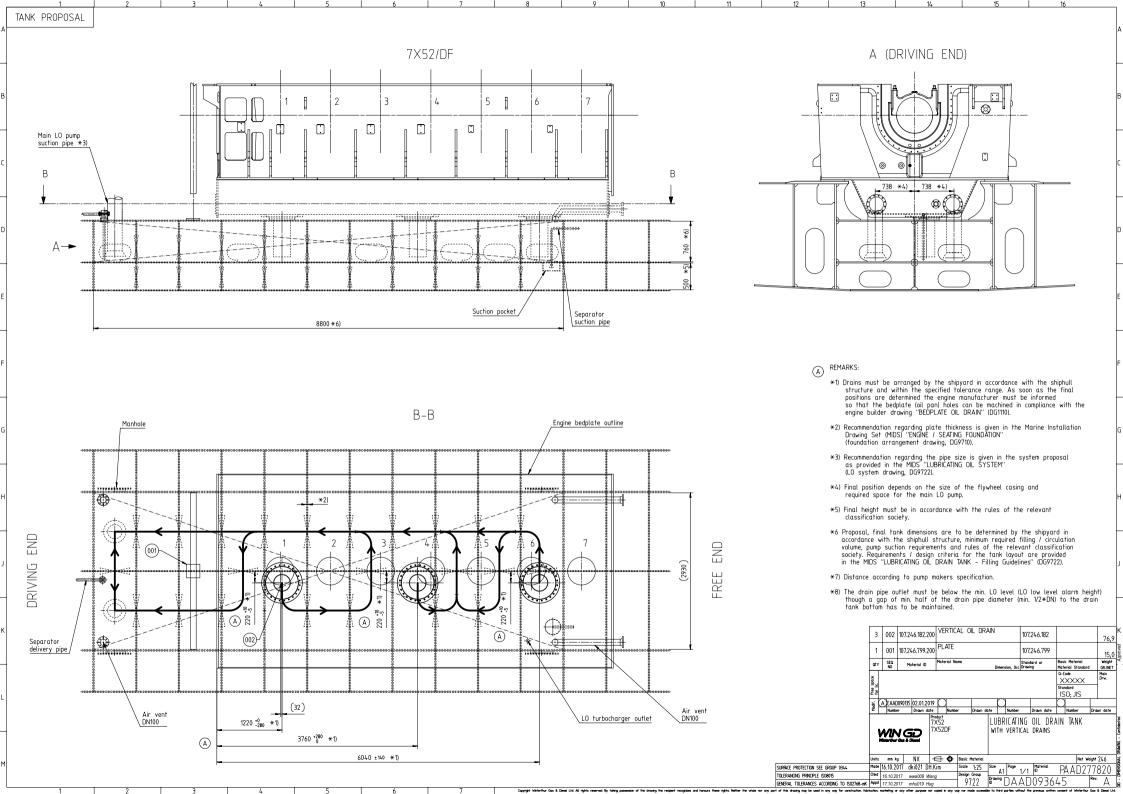


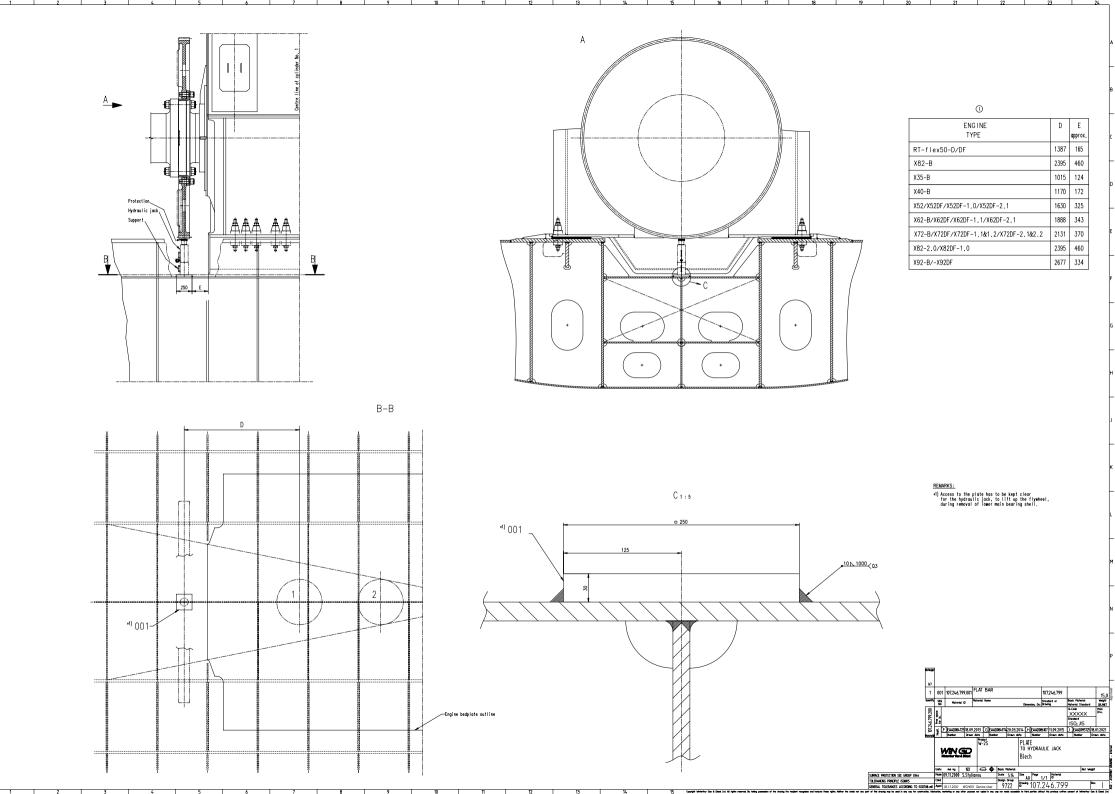


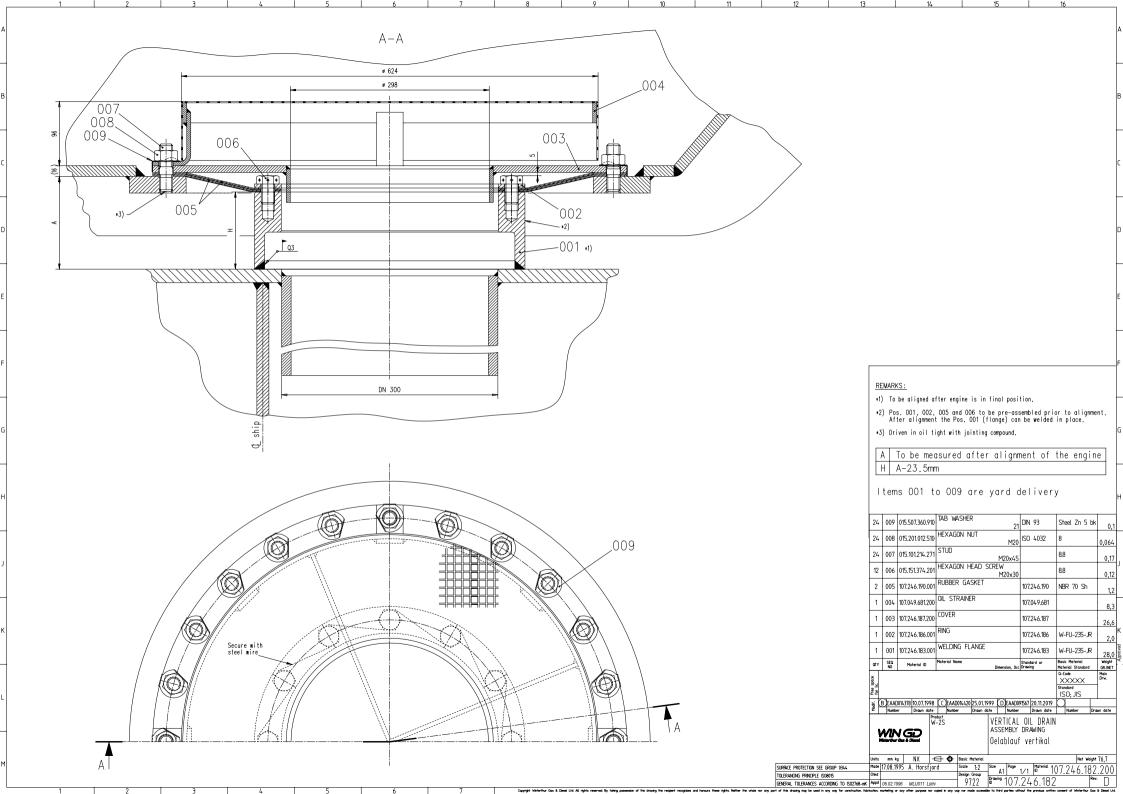


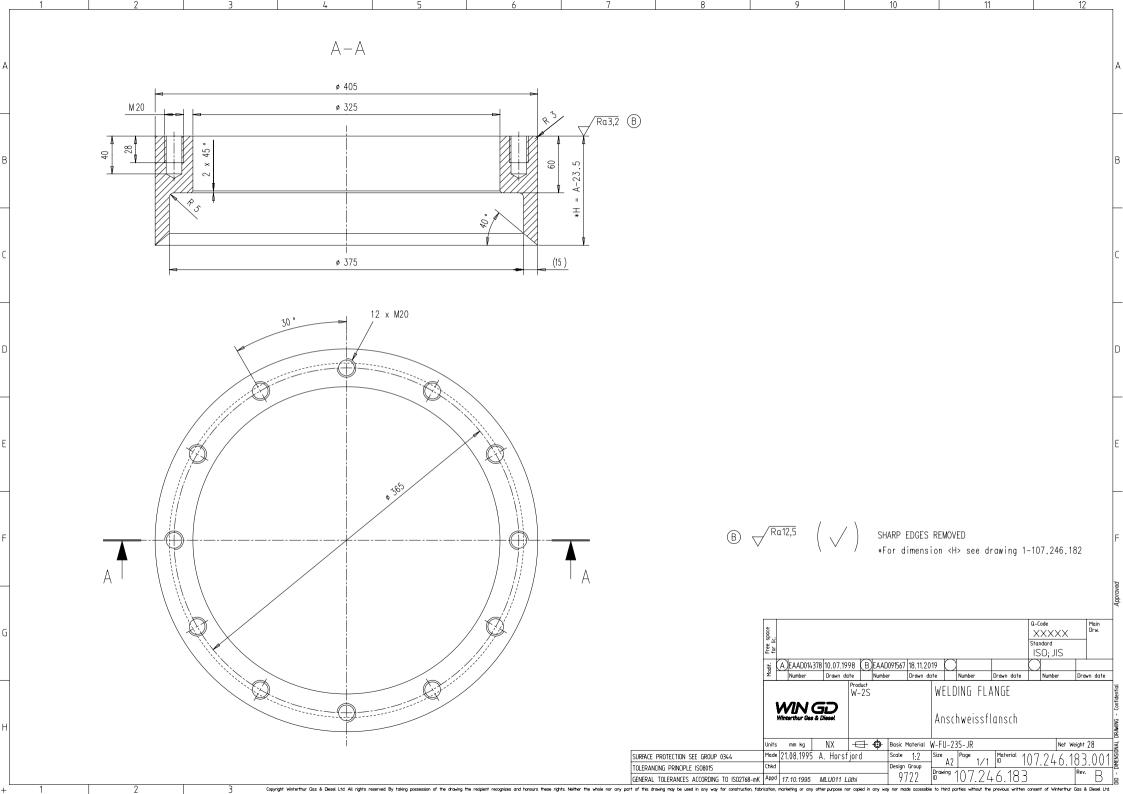


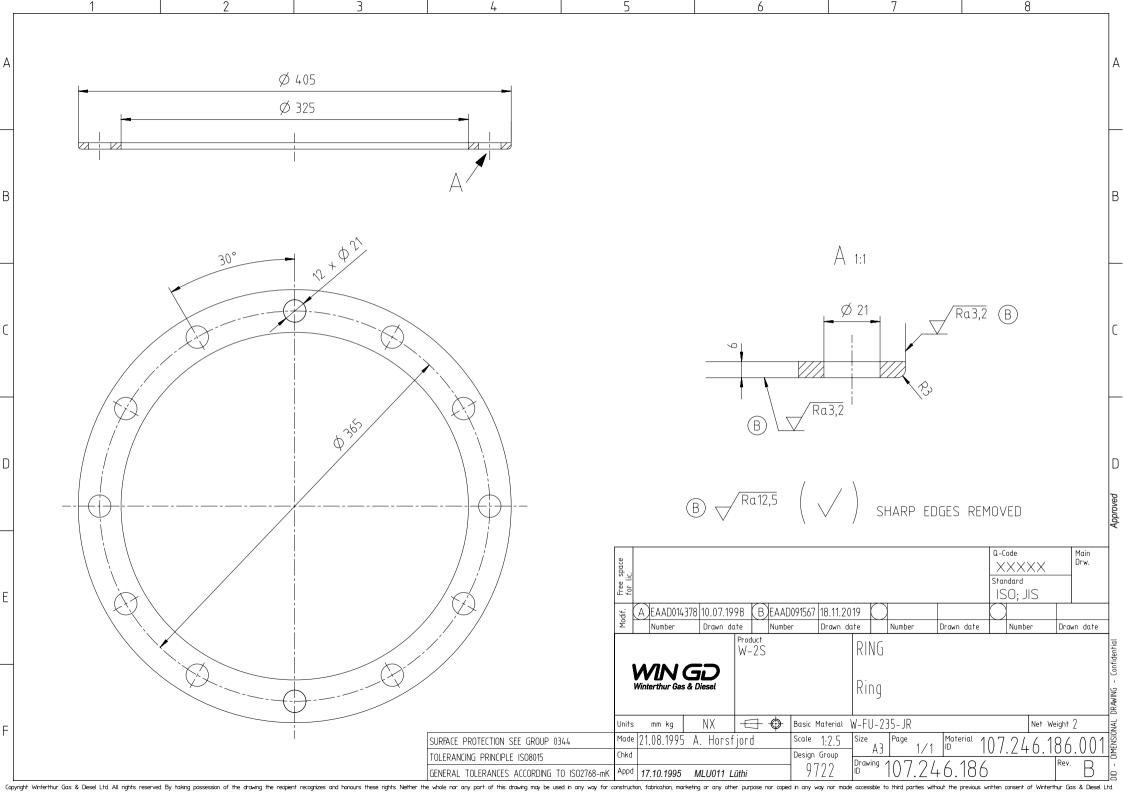


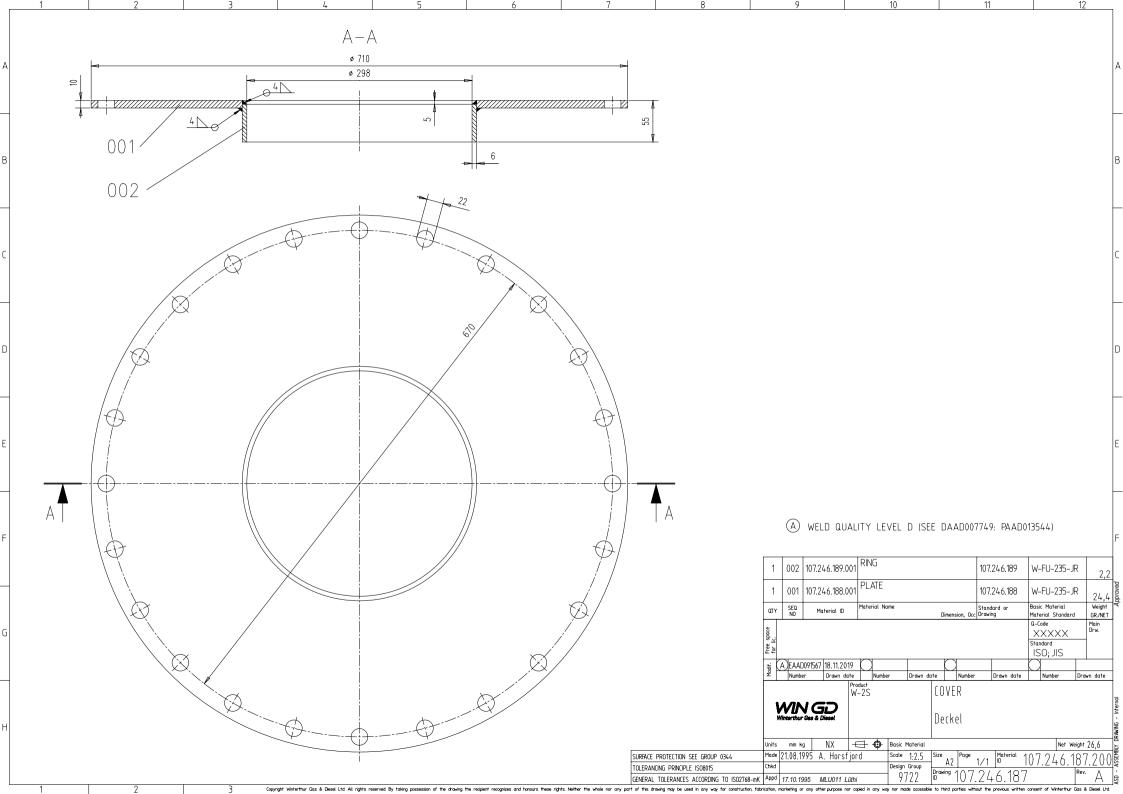


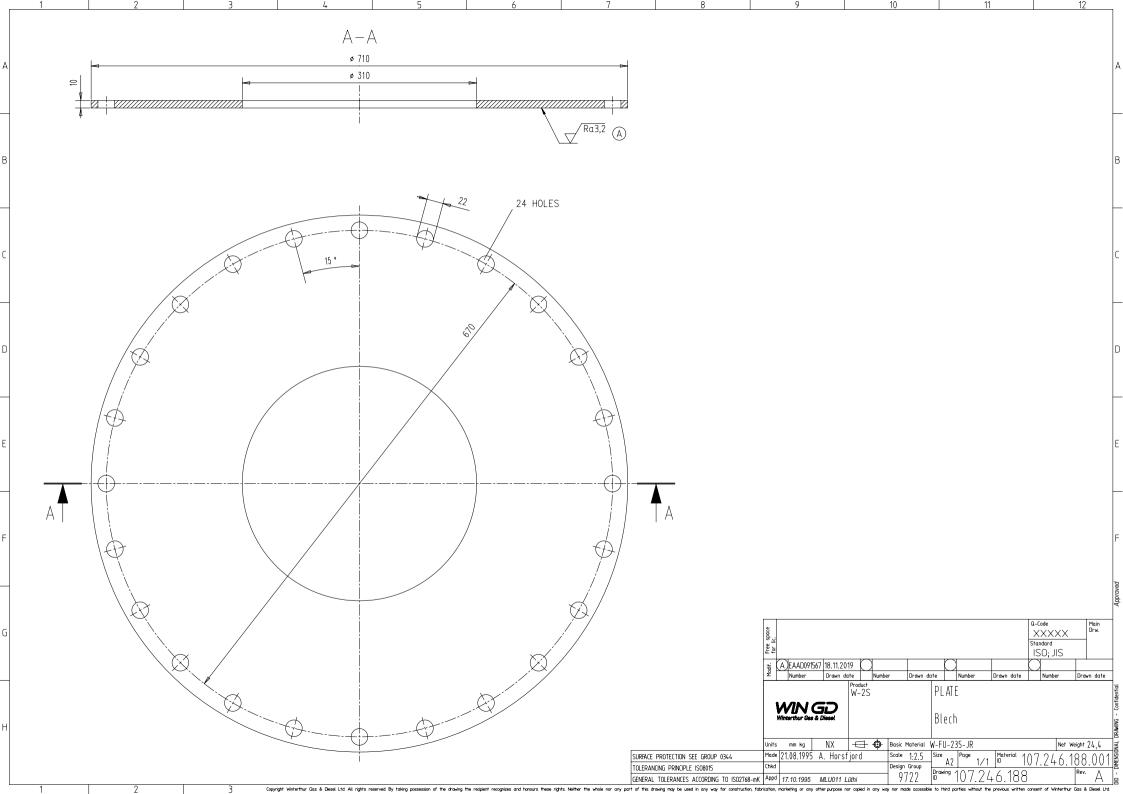


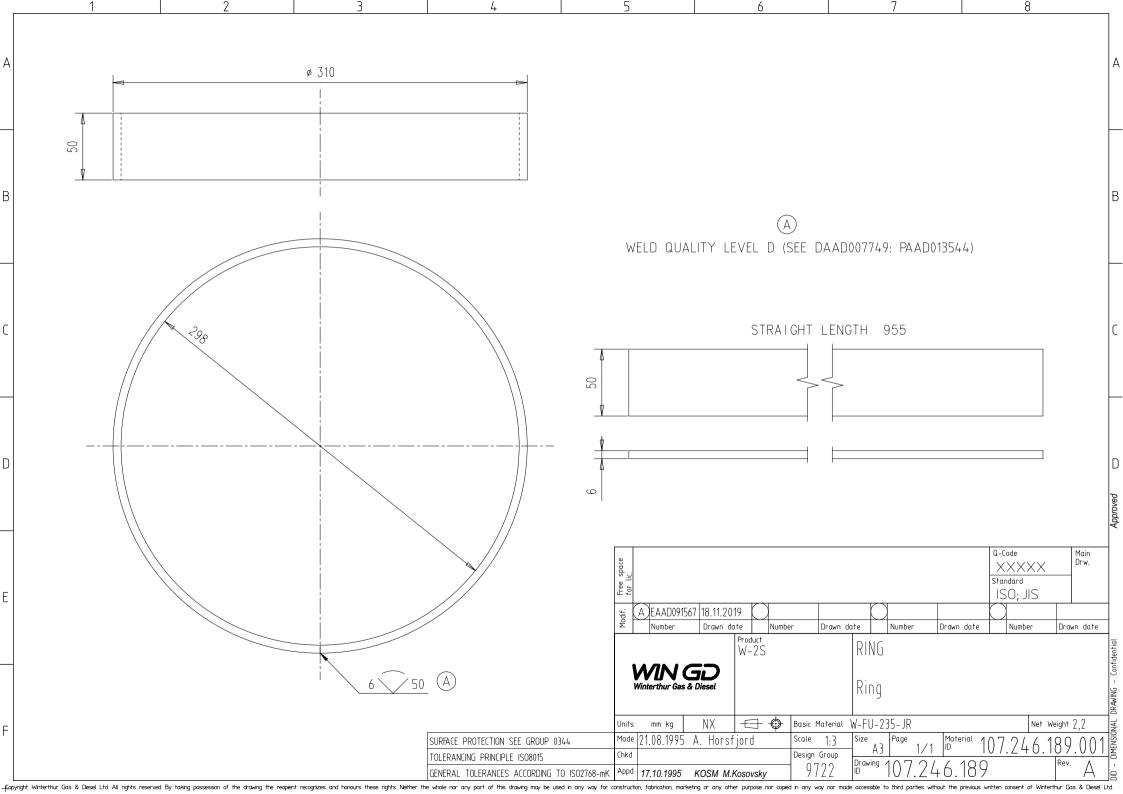


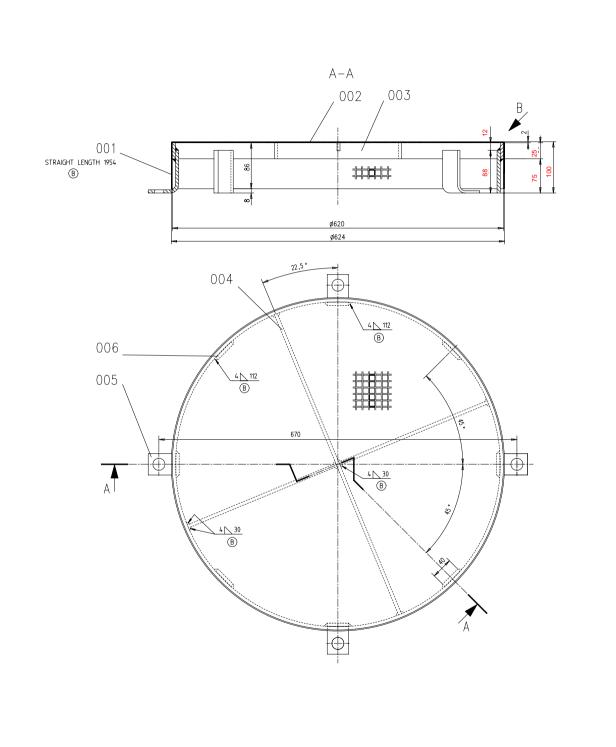


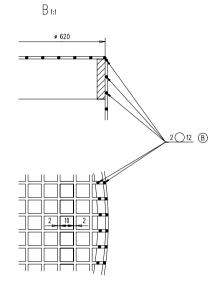








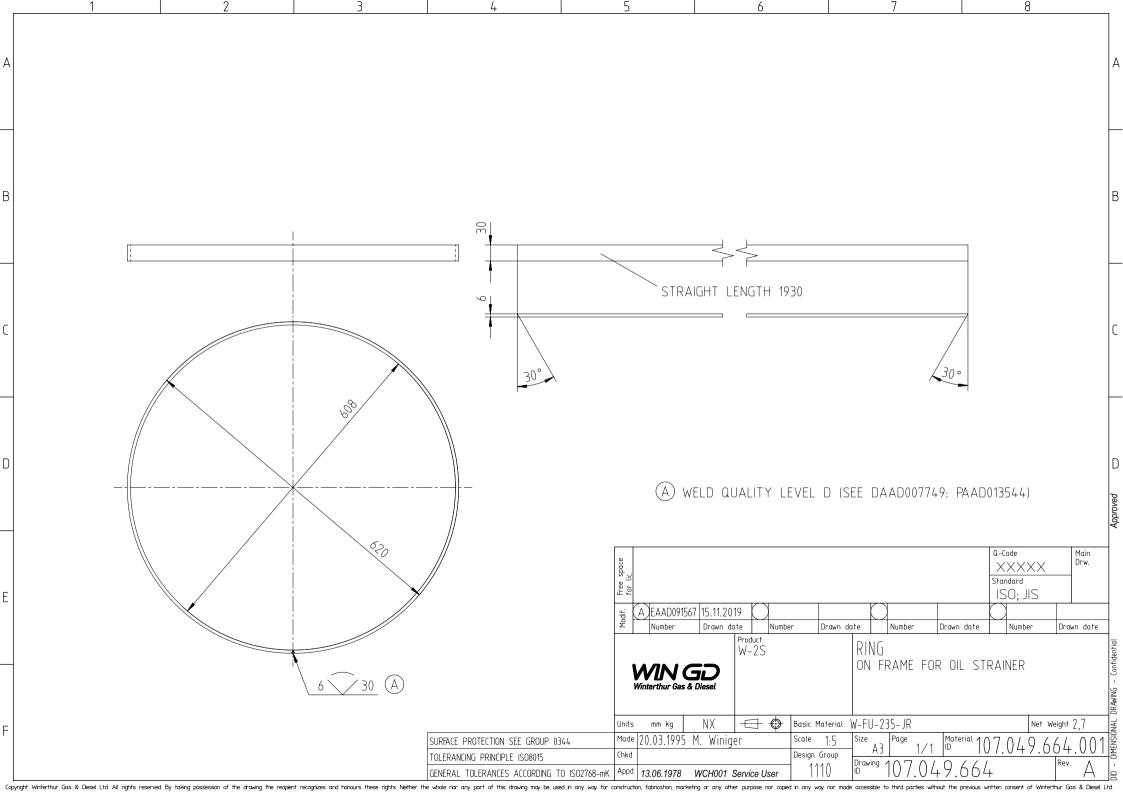


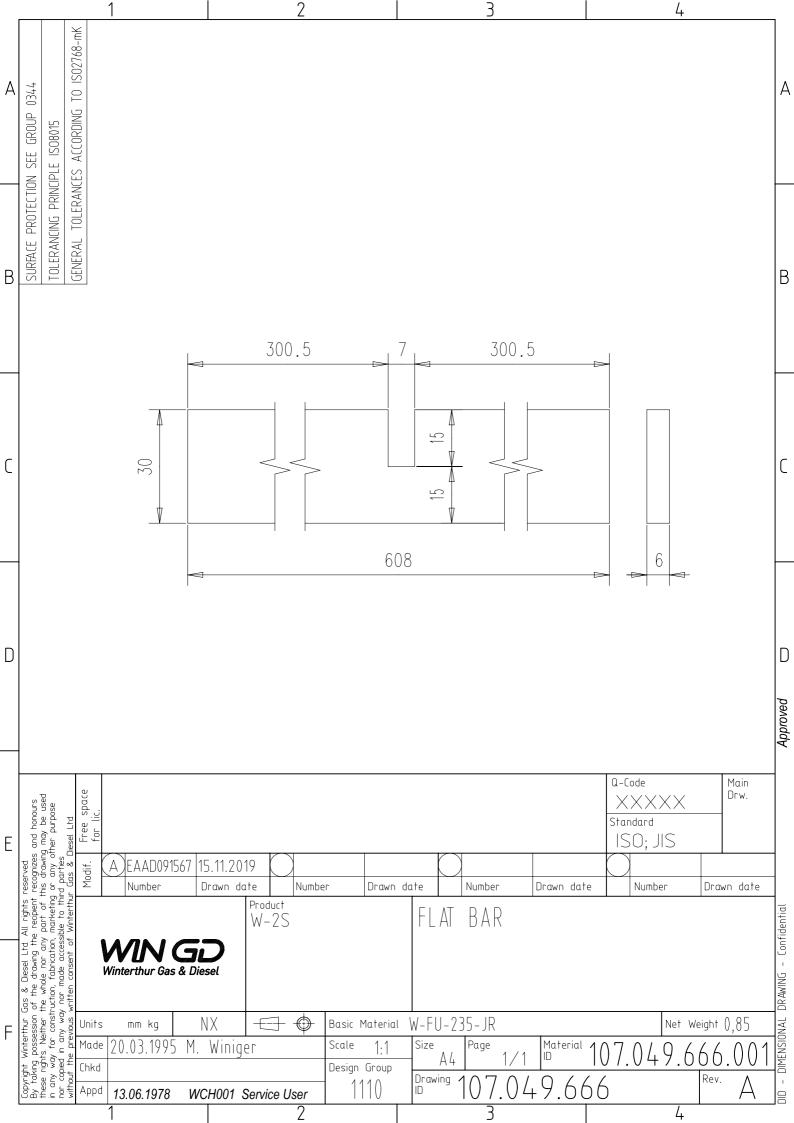


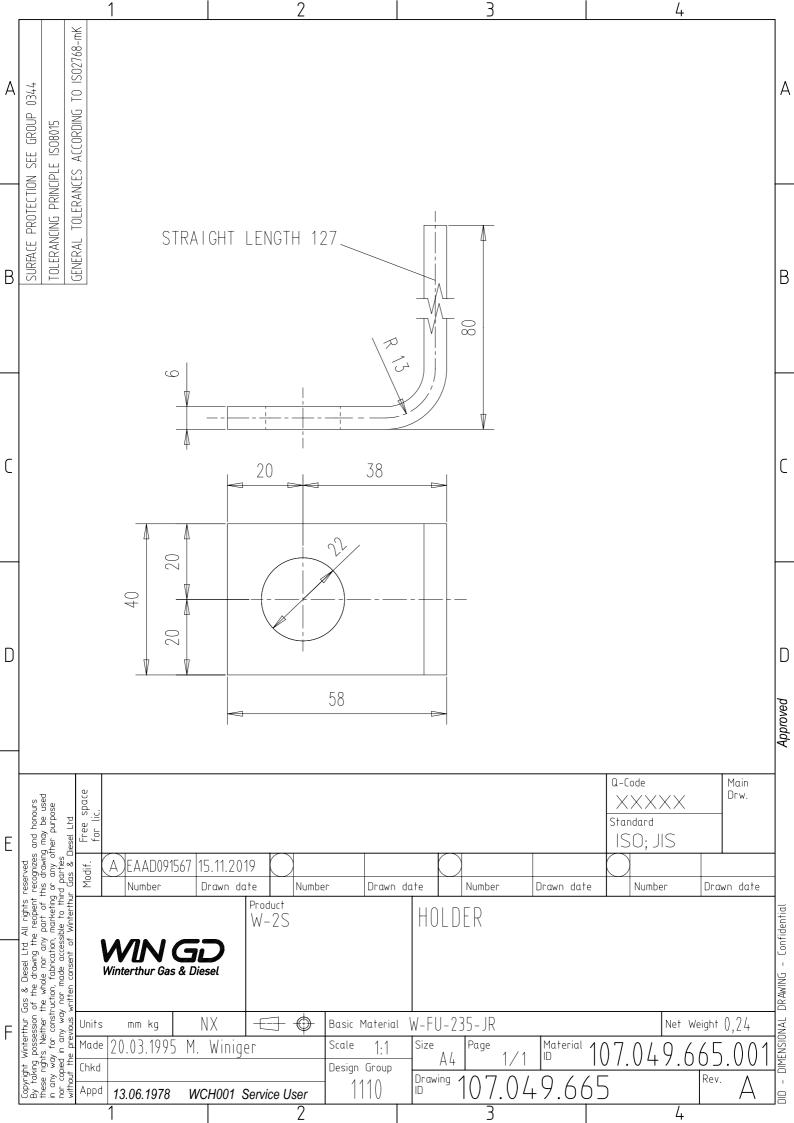
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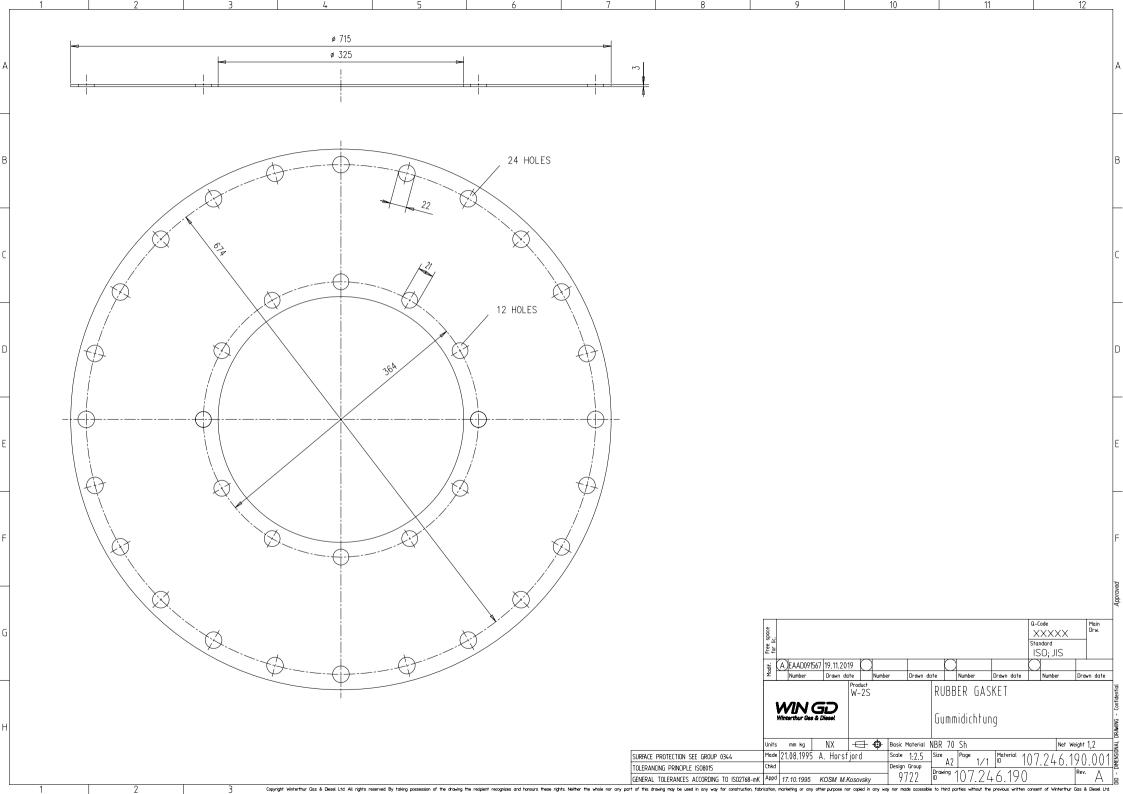
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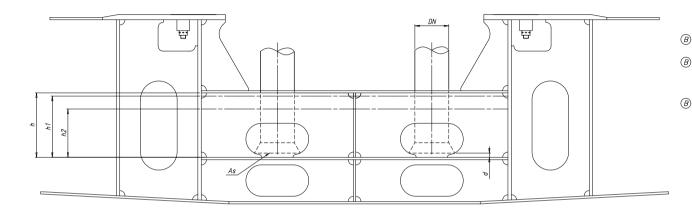
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		1	003	107.0	049.664.0	01	NG					107	7.049.664	. W	/-FU-235-	-JR	2,7	
		1	002	107.0	049.681.0	02 Pi	ERFO	RATEC	SHEE	T		107	7.049.681	W	/-FU-235-	-JR	1,4	
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part	of this drawing may be used in any way for construction, fabri	ication, r	narketing or	any of	ther purpose r	or copied	in ony v	ay nor mo	ade accessible	e to thi	rd pa	rties without th	he previous vr	itten con	ent of Wintert	ur Gas	& Diesel Lt	d



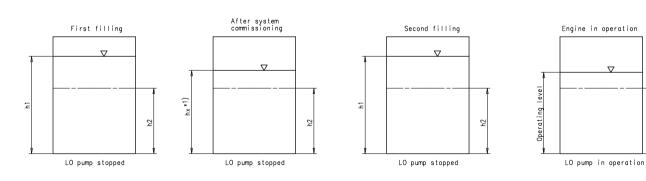








LO DRAIN TANK - FILLING PROCESS



Specifications that need to be met:

Dimensioning guidelines and capacities for tank design

		No. of cylinders		4	5	6	7	8
١ ١	L	Recommended total tank height	(mm)	acco	ording to in	nstallation	requiremen	ts
1	h	Recommended total tank volume: 105% *4)	(m3)	10	12	13	15	17
7	h1	Recommended filling level	(mm)	acco	ording to in	stallation	requiremen	ts
	n i	Recommended volume: 100% *4)	(m3)	9	11	13	14	16
	h2	Low-level alarm	(mm)				2)	
	ΠZ	Volume	(m3)			*.	2)	
)	۷r	Min. retention volume *5)	(m3)	6	7	8	9	10
	d	Distance between suction pipe and bottom of tank	(mm)			*.	3)	
	As	Suction area			min.	1.5 x sucti	on pipe are	ea (DN)

REMARKS:

h2

- *1) Level after filling of external system. Volume and level in the LO drain tank depend on capacity of pipes, coolers, filters, etc. The oil volume in tank contains a part of the oil quantity, which drains back when the pumps are stopped.
- *2) The low-level alarm (h2) has to be positioned in such a way that a proper pump suction is ensured under the conditions defined by the classification societies.

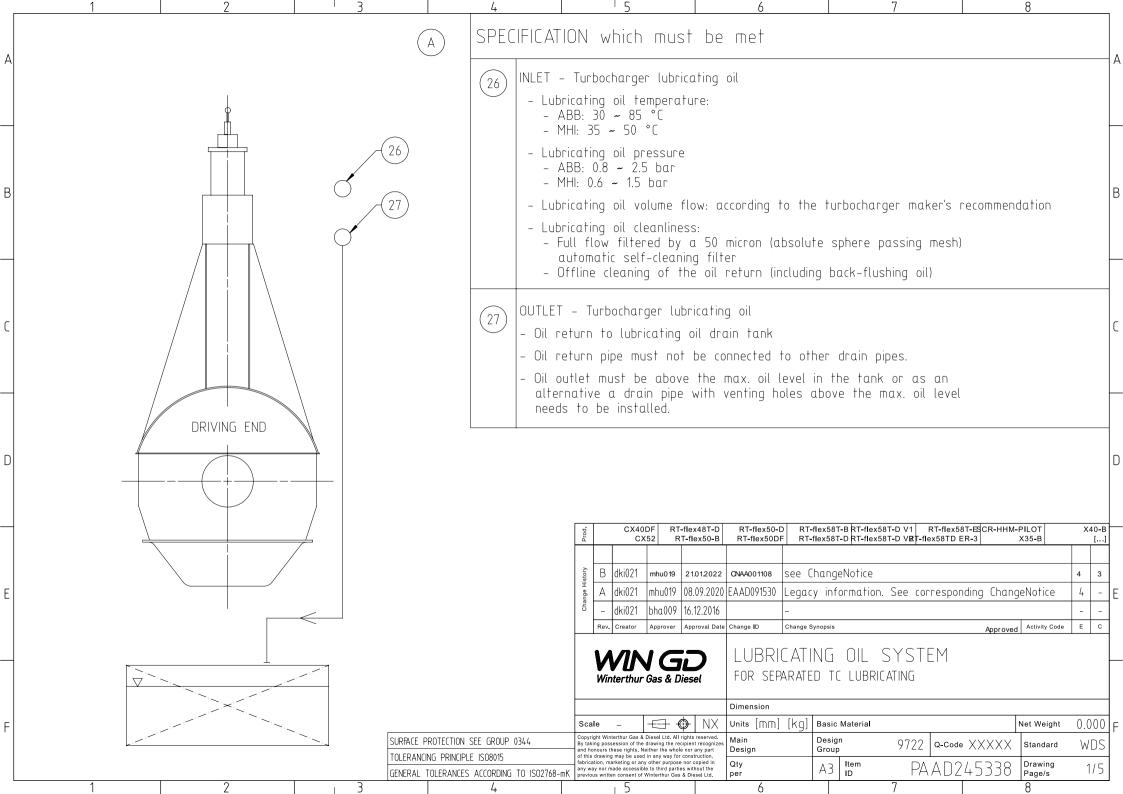
Minimum inclination angles comply with the rules of classification societies:

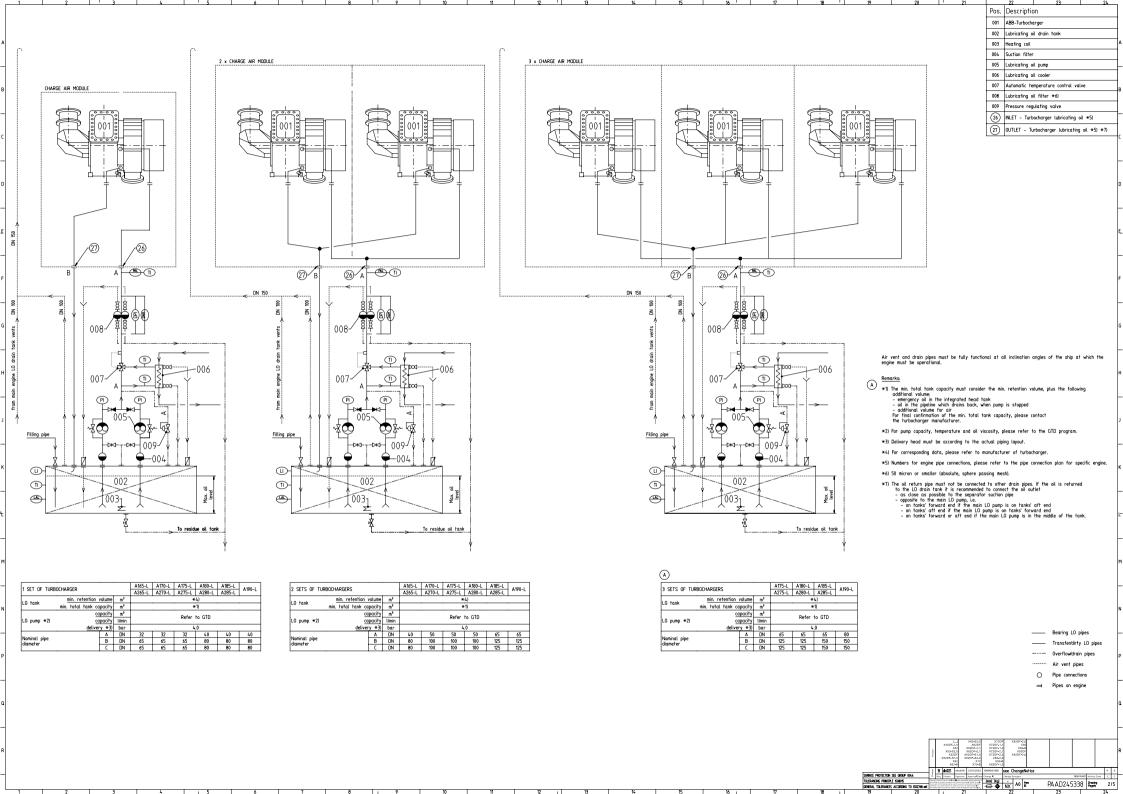


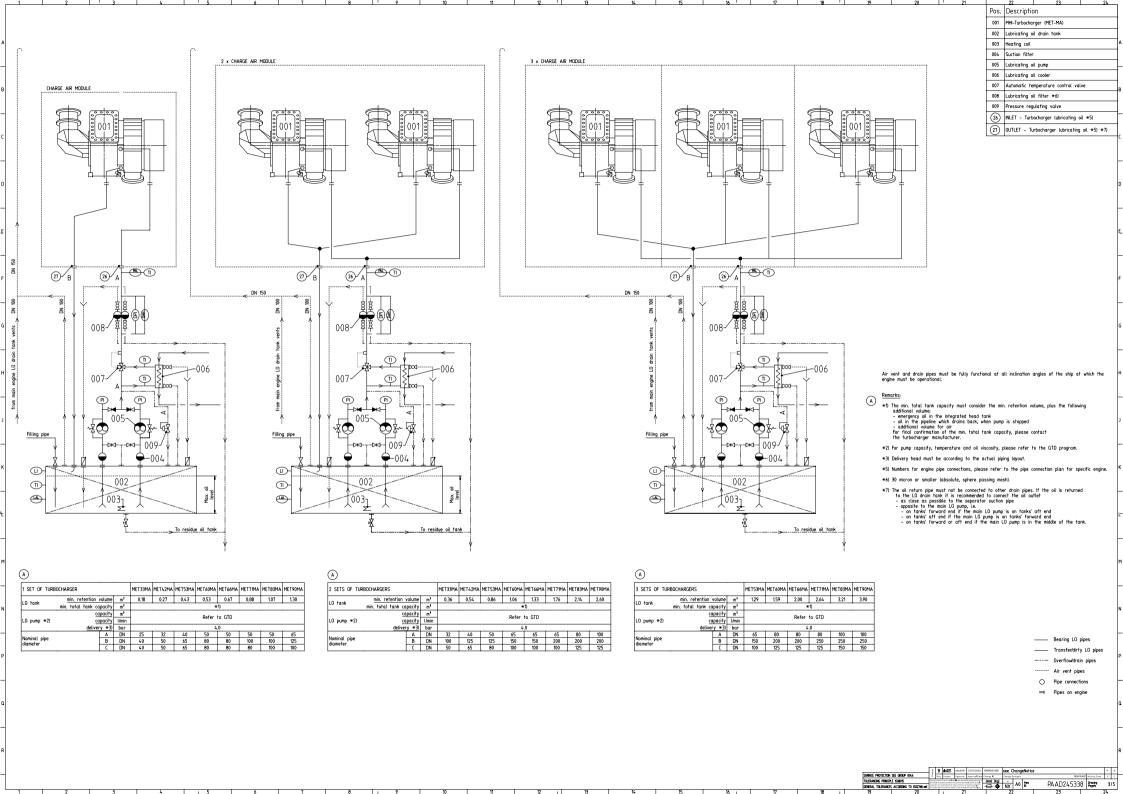
Additionally this level has to be above or equal to the minimum retention volume (Vr) for M/E operation.

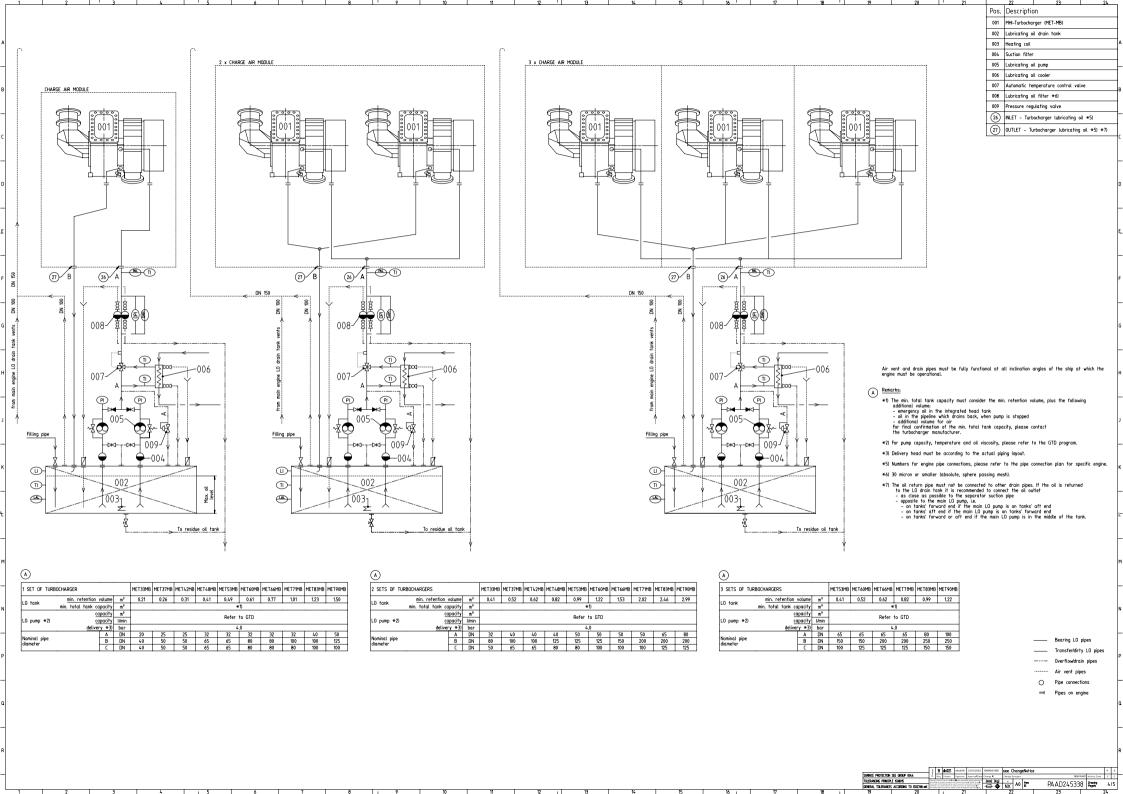
- *3) Distance (d) between suction pipe inlet of main LO pumps and LO drain tank bottom has to be in accordance with the requirements of the pump manufacturer. As guideline the following formula can be applied: d = DN/4 + 40, d = min. 80 mm.
- (B) *4) The stated tank volume represent the min. requirement. Final tank dimensions have to be aligned in regard to dimensional restricions by ship and engine structure and the pump suction requirement.
- (B) *5) To be maintained during engine operation (LO pump suction without LO drain back-flow (emergency case) is ensured for at least 3 minutes).

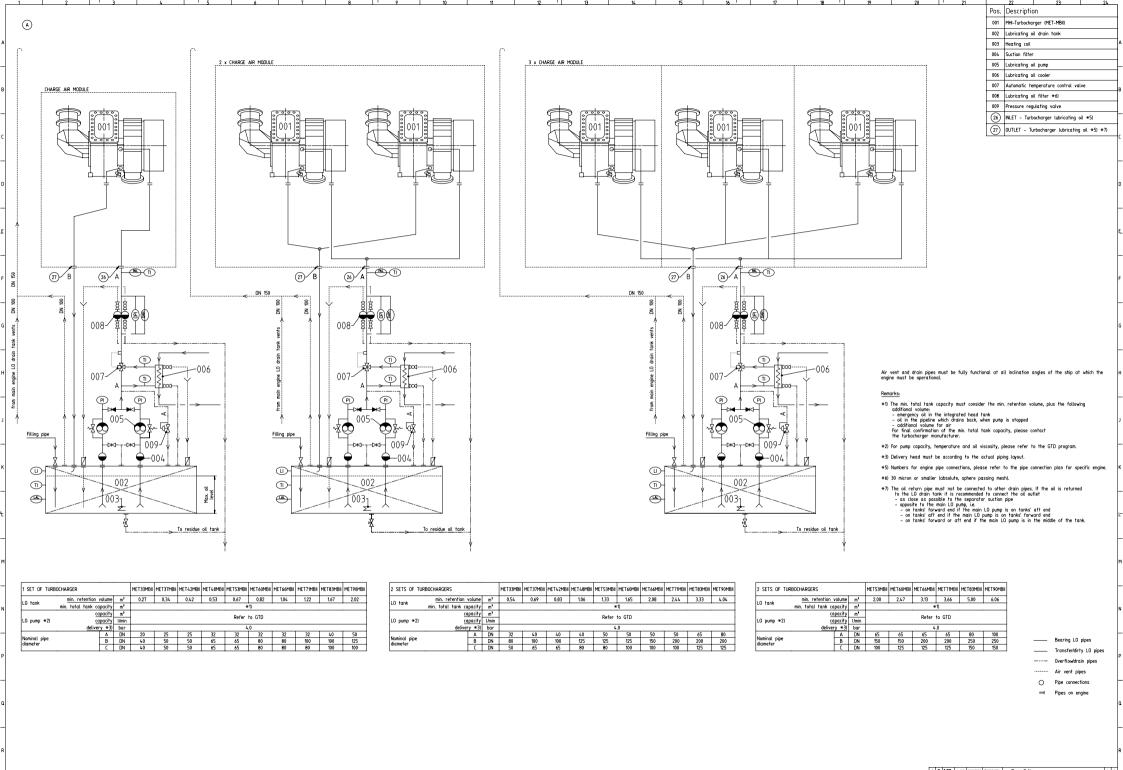






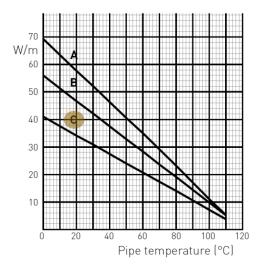






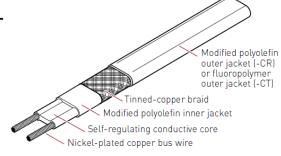
Self-Regulating Heating Cable 10QTVR2-CT

Order drawing



Heating cable construction

C 10QTVR2-CT



Specification:

way nor made

purpose nor

Description: 10QTVR2-CT Order No.: 391991-000

Area Classification: Non-hazardous and hazardous locations

Traced surface type: Metal and plastic

Chemical Resistance: Exposure to aqueous inorganic chemicals: Use -CR

(modified polyolefin outer jacket)

Exposure to organic chemicals or corrosives: Use -CT

(fluoropolymer outer jacket)

Supply Voltage: 200-277 VAC

Temperature Rating: Maximum maintain or continuous exposure temperature (power on)

225°F (110°C)

Maximum intermittent exposure temperature, 1000 hours (power on)

225°F (110°C)

Minimum installation temperature -76°F (-60°C)

Minimum Bending Radius: 13 mm at 20°C

35 mm at -60°C

N PENTAIR Height: 4.5 mm Supplier:

Width: 11.8 mm www.pentairthermal.com

Weight: 0.126 kg/m

MAXIMUM CIRCUIT LENGHT BASED ON TYPE 'C' CIRCUIT BREAKERS ACCORDING TO EN60898 SUPPLY VOLTAGE 230 VAC						
Electrical protection sizing	Start-up temperature	Maximum heating cable length per circuit [m]				
16A	-20°C	65				
	+10°C	80				
25A	-20°C	95				
	+10°C	115				
32A	-20°C	115				
	+10°C	115				
40A	-20°C	115				
	+10°C	115				

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All rights reserved. By t	WINGD Winterthur Gas & Diesel W-2S					Heating Element Order Drawing														
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ght W	Chk	kd 24.10.2018 R. Leutwyler Design Group					Drawing ID							Rev						
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MIDS - LUBRICATING-OIL-SYSTEM (DG9722)

WinGD X52

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-15	DRAWING SET	First web upload
2017-10-19	DAAD093782 DAAD0093645	Main drawing +Tank arrangement - New drawings for 7 cyl. engine version
2018-05-18	DAAD056631	System drawing – new revision
2019-07-17	DAAD070533 DAAD061872 DAAD093645 DAAD097843	Tank drgs – new revision
2020-09-21	DAAD093782 DAAD056631 107.246.182 107.246.183 107.246.186 107.246.187 107.246.188 107.246.189 107.049.681 107.049.664 107.049.665 107.246.190 DAAD083642	System and tank assembly drgs – new revision
2021-05-19	107.246.799	Hydraulic jack plate positioning drawing – new revision
2022-07-12	PAAD177914	System drg – new revison
2022-09-29	PAAD177914	System drg – new revison

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2023-01-05	PAAD177914	System drg – new revison
2023-07-12	PAAD177914G	New revison