

1 2 3 4 5 6 7 8

A  
B  
C  
D  
E  
F

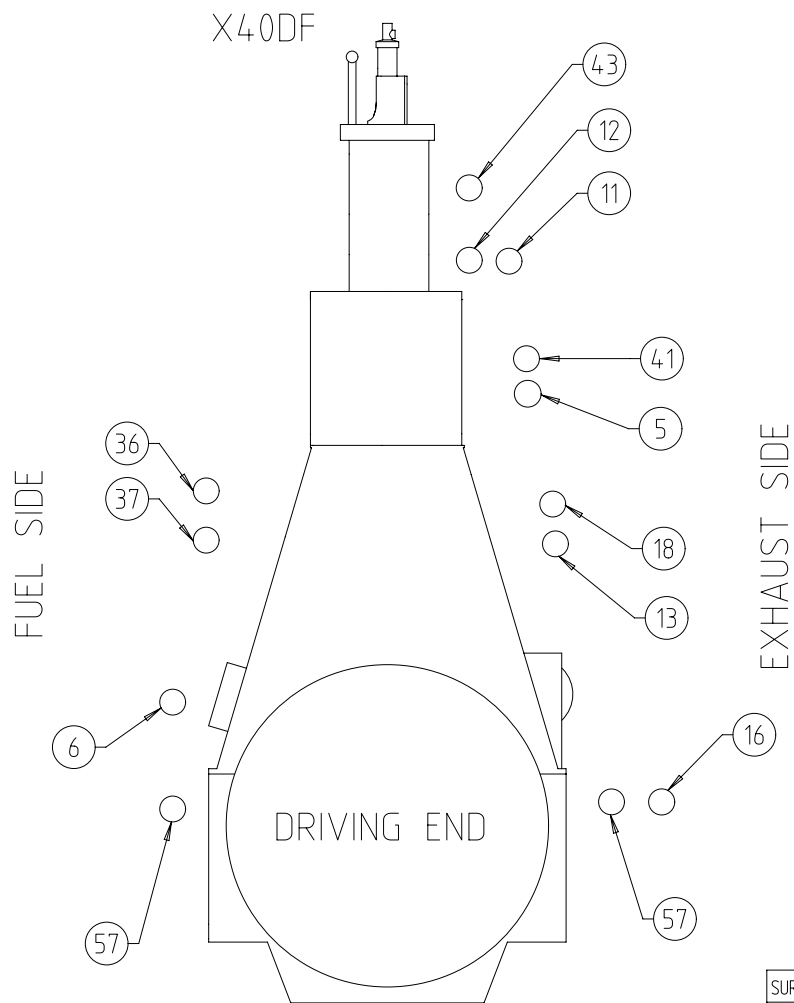
A  
B  
C  
D  
E  
F

Net Weight		0,001						
Quantity	SEQ NO	Material ID	Material Name	Dimension, Occ	Standard or Drawing	Basic Material Material Standard	Weight GR./NET	
1	001	PAAD332486	LEAKAGE COLLECTION/WASHING SYS.		DAAD118366		0,001	
PER ENGINE	Free space for lic.						Q-Code XXXX	Main Drw. H
							Standard ISO; JIS	
Material ID	Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	
	Material ID	Number	Drawn date	Number	Drawn date	Number	Drawn date	
		Product W5-8X40DF		LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM LEAKAGE COLLECTION/WASHING SYS.				
Units	mm kg	NX		Basic Material		Net Weight		
SURFACE PROTECTION SEE GROUP 0344		Made	03.07.2019	Sudant Deogade		Scale	-	
TOLERANCING PRINCIPLE ISO8015		Chkd	06.09.2019	cku010 Claudio		Design Group	9724	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	06.09.2019	mhu019 Hug		Drawing ID	DAAD118367	
						Page	1/1	
						Material ID		
						Rev.	-	

Approved  
DID - DIMENSIONAL DRAWING - Confidential

SPECIFICATION which must be met

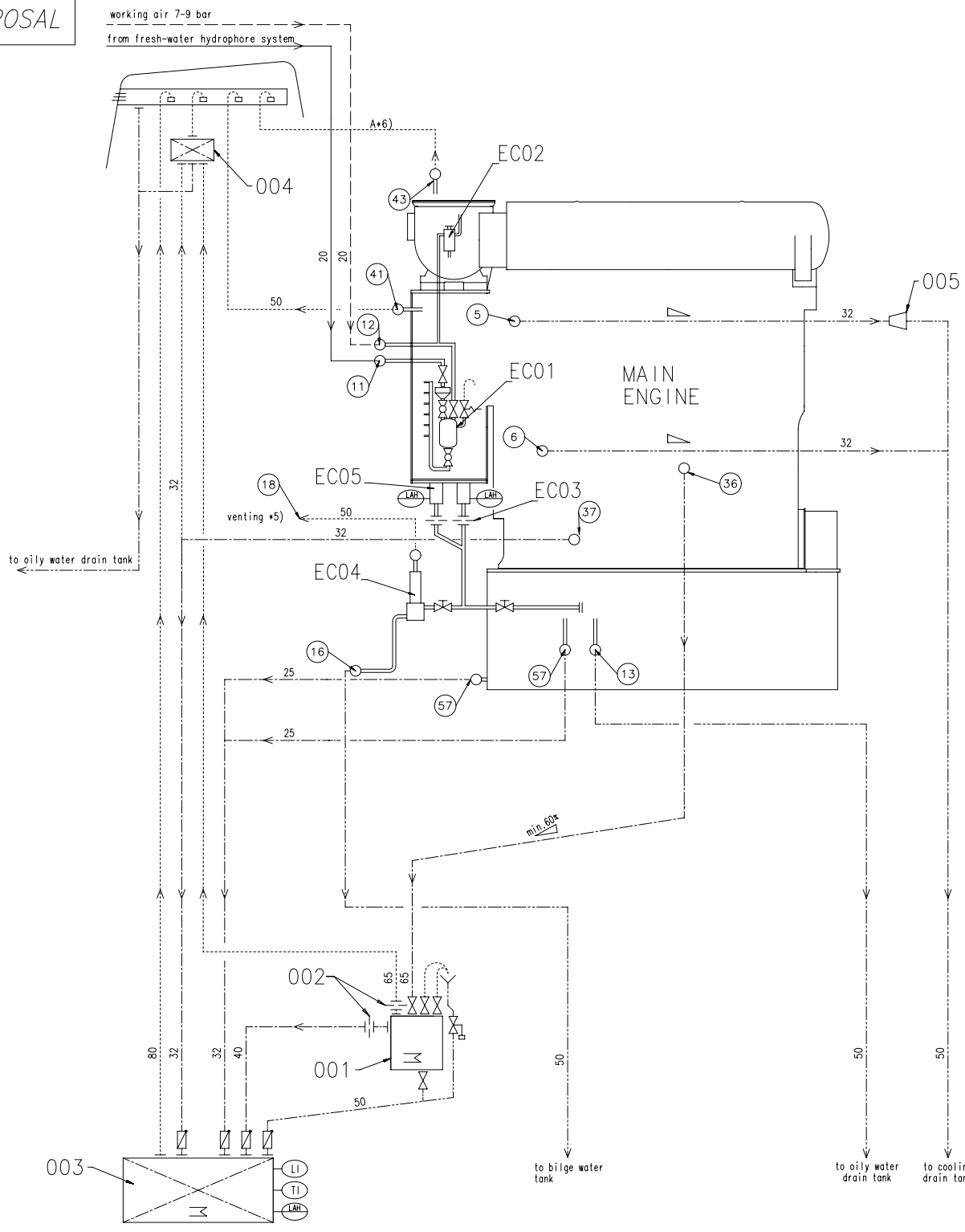
41	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes.	5	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
43	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification. - Must not be connected to other venting pipes.	6	OUTLET - SAC drain - Gravity flow to cooling water drain or appropriate tank.
57	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank.	11	INLET - Washing water SAC - From fresh water hydrophore system, supply pressure: 2.5 bar
		12	INLET - Air for cleaning plants TC and SAC - Working air, supply pressure: 7-9 bar
		13	OUTLET - Oily water from scavenge air receiver - Gravity flow to oily water tank or appropriate tank.
		16	OUTLET - SAC condensate water - Gravity flow to bilge water tank or appropriate tank.
		18	OUTLET - SAC venting - Free flow outside of engine room.
		36	OUTLET - Dirty oil piston underside - Flow with SAC pressure to sludge oil trap or appropriate arrangement. - Min. inclination of drain pipe: 60 % - Must not be connected to other drain pipes.
		37	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.



1	001	107.425.369.500	SLUDGE OIL TRAP	107.425.369		0,001
QTY	SEQ NO	Material ID	Material Name	Standard or Drawing	Basic Material Standard	Weight GR./NET
Free space for lic.					Q-Code XXXXXX	Main Drw.
Standard					ISO; JIS	
Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date
			Product 5-8X40DF	LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM		
				LEAKAGE COLLECTION/WASHING SYS.		
Units	mm kg	NX	Basic Material	Net Weight 0,001		
SURFACE PROTECTION SEE GROUP 0344		Made	03.07.2019 Sudant Deogade	Scale	-	
TOLERANCING PRINCIPLE ISO8015		Chkd	06.09.2019 cku010 Claudio	Design Group	7724	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	06.09.2019 mhu019 Hug	Size	A3	Page 1/2
				Material ID	PAAD332486	
				Drawing ID	DAAD118366	
				Rev.	-	

Approved  
D  
E  
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DIM - DIMENSIONAL DRAWING - Confidential

# SYSTEM PROPOSAL



TC type	A	Inclination
A-165	65	>5°
A-170	65	>5°
A-265	65	>5°
MET48MB	50	>3°
MET53MB	50	>3°
MET60MB	50	>3°

Pos.	SYSTEM COMPONENTS *1)
001	Sludge oil trap (according to separate drawing)
002	Throttling disc (size shown on separate sludge oil trap drawing)
003	Sludge or appropriate tank
004	Air vent manifold
005	Transition piece (adaptor) *7)

Pos.	ENGINE CONNECTIONS *2)
5	OUTLET - Cylinder cooling water drain
6	OUTLET - SAC drain
11	INLET - Washing water SAC
12	INLET - Air for cleaning TC and SAC
13	OUTLET - Oily water from scavange air receiver *8)
16	OUTLET - SAC condensate water *4) *8)
18	OUTLET - SAC venting *5)
36	OUTLET - Dirty oil piston underside
37	OUTLET - Leakage oil gland box
41	OUTLET - venting crankcase
43	OUTLET - Venting turbocharger
57	OUTLET - Various leakages

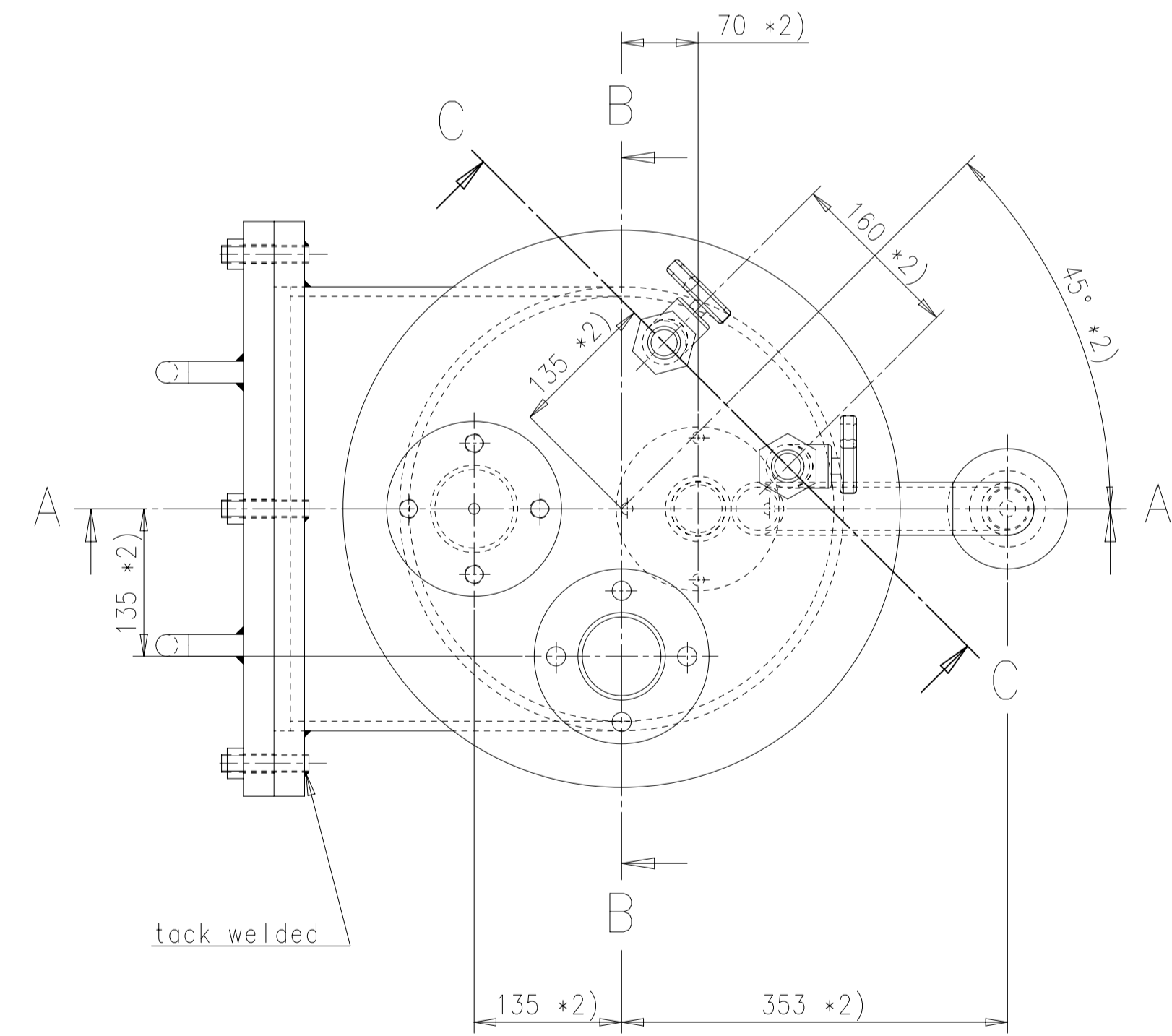
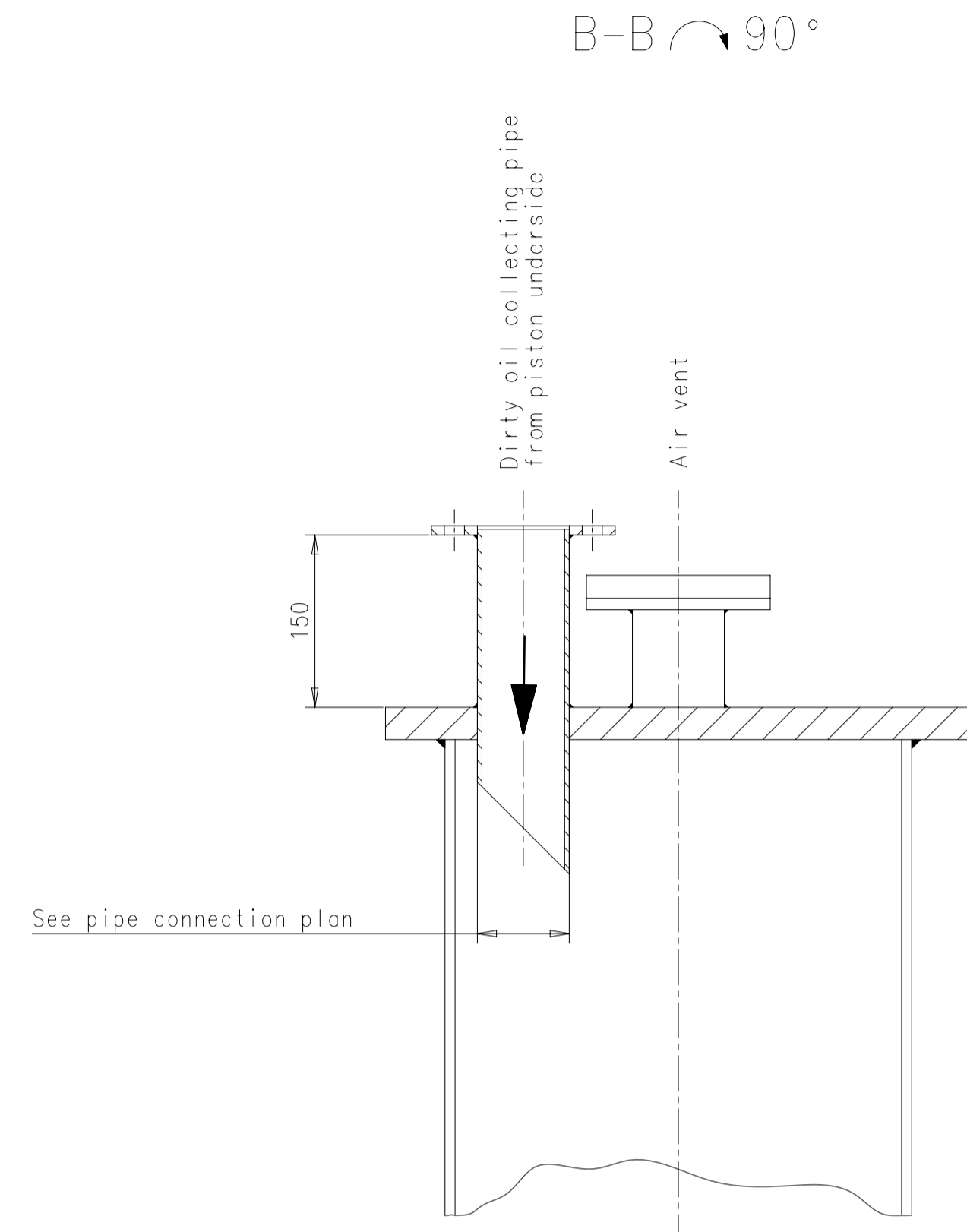
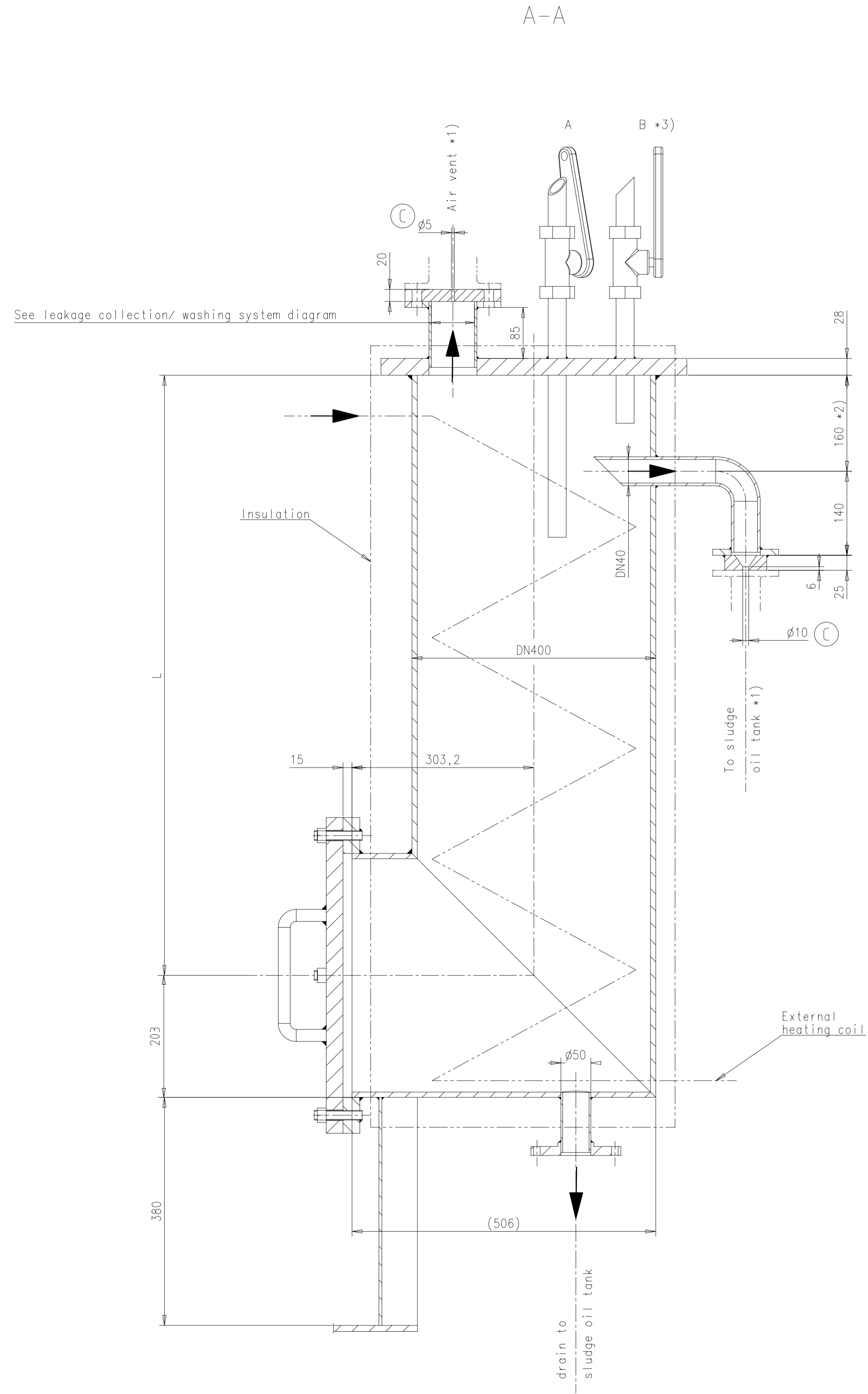
Pos.	ENGINE COMPONENTS *3)
EC01	Scavenging air cooler washing plant
EC02	Dry cleaning device
EC03	Throttling disc
EC04	Venting Unit
EC05	Condensate drain unit

**Remarks**

- Air vent and drain pipes must be fully functional at all inclination angles of the ship at which the engine must be operational.
- \*1) To be delivered by external suppliers and to be installed by the shipyard.
- \*2) Refer to the "Pipe Connection Plan" for the execution and location of the engine pipe connections.
- \*3) To be delivered by the engine manufacturer, i.e. already equipped on engine side.
- \*4) The amount of condensate water drained off after the SAC depends on the relative air humidity and the scavange air temperature before and after the SAC. Under extreme ambient conditions a maximum condensate quantity of up to 0.16 kg/kWh may be produced.
- \*5) Free flow venting outside of engine room.
- \*6) In relation to turbocharger type, see table on the left side.
- \*7) Installed as required (check with the pipe connection plan).
- \*8) Drain connection 13 and 16 are with air flow from scavenging system. It is recommended to connect these drains to different tanks. The tanks must be designed with sufficient sized vents to avoid excessive pressure in the tanks. The drain amount depends on the ambient conditions.

- Compressed air pipes
- ..... Air vent pipes
- ..... Drain & overflow pipes
- Washing water pipes
- Dirty oil drain pipes
- Pipes on engine
- Pipe connections

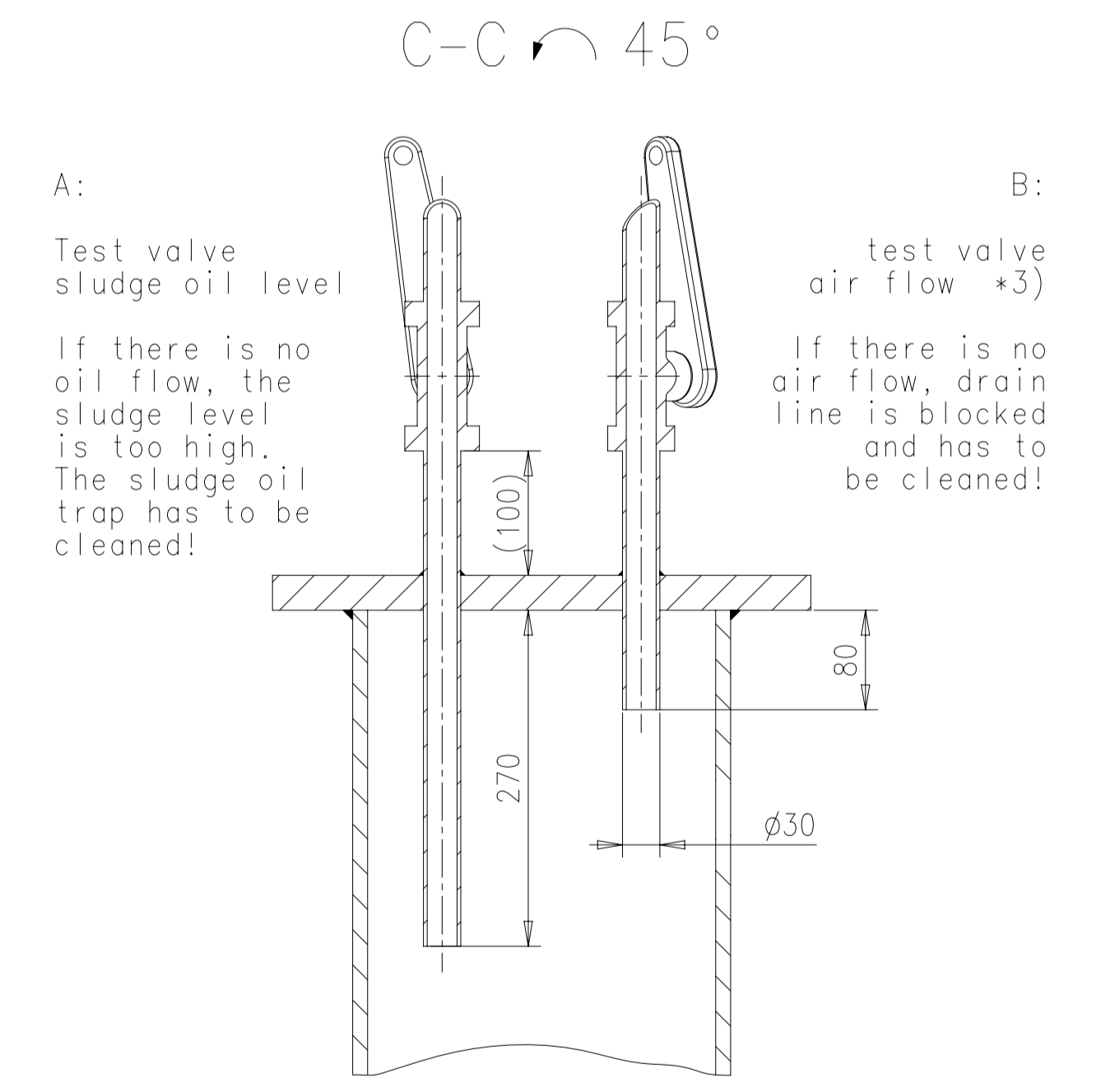
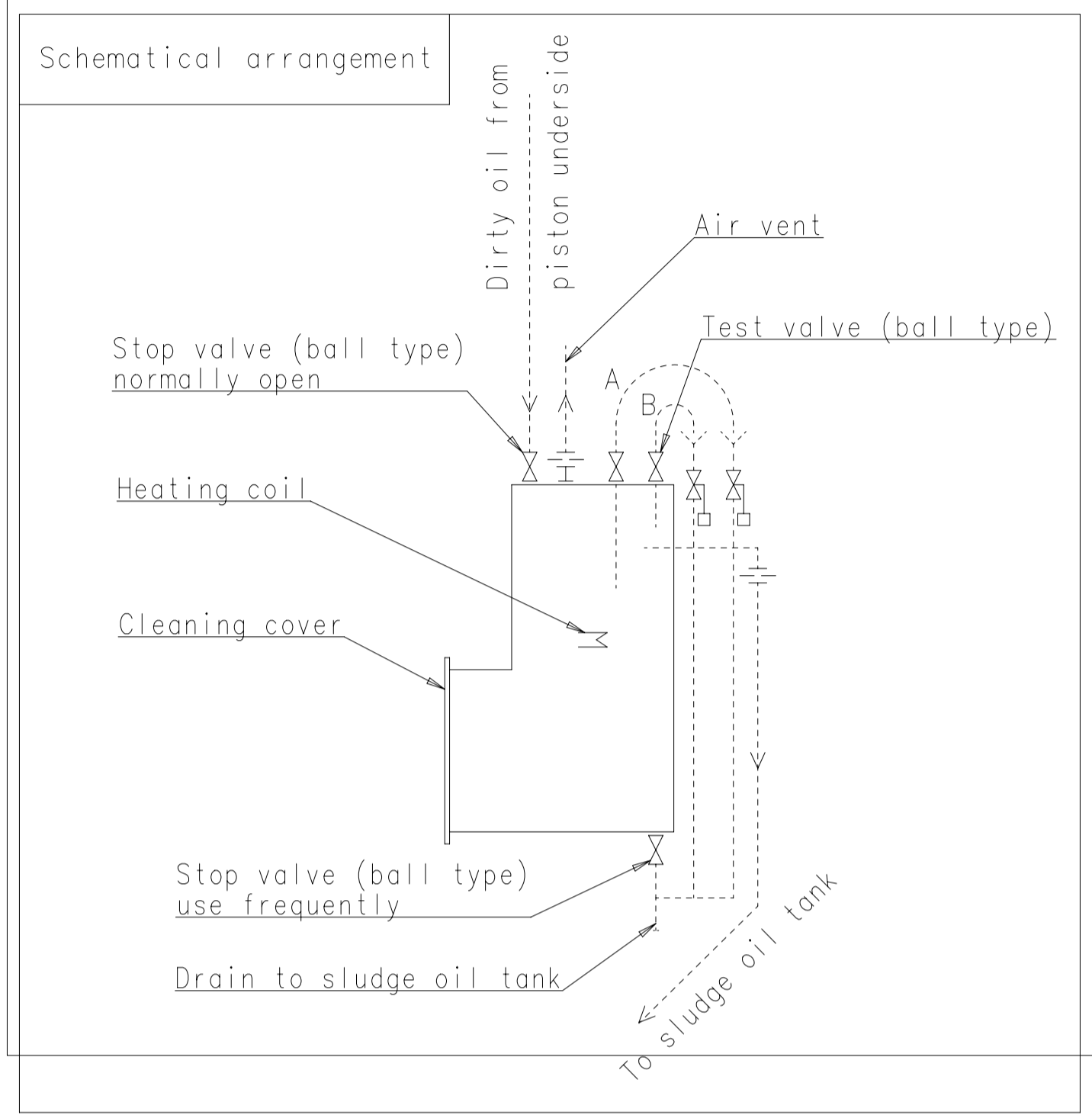
		Product: 5-8X40DF LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM LEAKAGE COLLECTION/WASHING SYS.	G-Code: XXXXX Standard: ISO, JIS Main Drw.
Units: mm kg NX	Basic Material:	Net Weight: 0,001	Made: 03.07.2019 Sudant Deagode
SURFACE PROTECTION SEE GROUP 0344 TOLERANCING PRINCIPLE ISO8015 GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Date: 06.09.2019 Appd: 06.09.2019	Scale: - Design Group: 9724 Drawing ID: DAAD118366	Size: A1 Page: 2/2 Material ID: PAAD332486 Rev: -



Remarks:

- \*1) Orifice to be as shown
- \*2) Observe location of pipes with regard to each other
- \*3) Optional - Alternatives, such as level sensors, are possible

Details:	Cylinder bore size:	L = 1000	L = 550
	Capacity:	55-96	35-54
	Working pressure:	4 bar	
	Testing pressure:	6 bar	
	Temperatur:	80°C	



Free space for file	O-Code XXXXX		Main Drw.
Standard ISO, JIS			
Modif. A	EAAD084051	22.01.2013	B EAAD087849
Number	22.01.2013	Number	14.07.2017
Drawn date		Number	EAAD089439
Drawn date		Number	12.07.2018
Product	W-2S		
WIN GD Winterthur Gas & Diesel		SLUDGE OIL TRAP	
Units	mm kg	NX	Basic Material
Net Weight	0.001		
Surface protection	SEE GROUP 0344		
Scale	1:5	Size	A1
Page	1/1	Material	107.425.369.500
Design Group			
Appd	13.11.2009	JBA029	Baumann
Drawing ID	9724	107.425.369	Rev. C

## MIDS - WinGD X40DF – Leakage Collection and Washing System (DG9724)

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2019-09-09	DRAWING SET	First web upload

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