

1

2

3

4

5

6

7

8

A

B

C

D

E

F

Net Weight

0,001

1

001

PAAD294068

LEAKAGE COLLECTION/WASHING SYS.

DAAD100055

0,001

Quantity

SEQ

Material ID

Material Name

Dimension, Occ

Standard or

Basic Material

Weight

PER ENGINE

NO

Drawing

Material Standard

GR./NET

PAAD294071

Free space for ltc.

Q-Code

XXXX

Main

Modif.

Material ID

Number

Drawn date

Number

Drawn date

Number

Drawn date

Number

Drawn date

Drawn date

Product

W5-8X62-B

LEAKAGE COLLECTION/WASHING SYS.

SYSTEM DIAGRAM

LEAKAGE COLLECTION/WASHING SYS.

Units

mm kg

NX

Basic Material

Net Weight

SURFACE PROTECTION SEE GROUP 0344

Made

27.04.2018 Sachin Tripathi

Scale

-

Size

A3

Page

1/1

Material ID

TOLERANCING PRINCIPLE ISO8015

Chkd

11.06.2018 mhu019 Hug

Design Group

9724

Drawing ID

DAAD100057

Rev.

-

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Appd

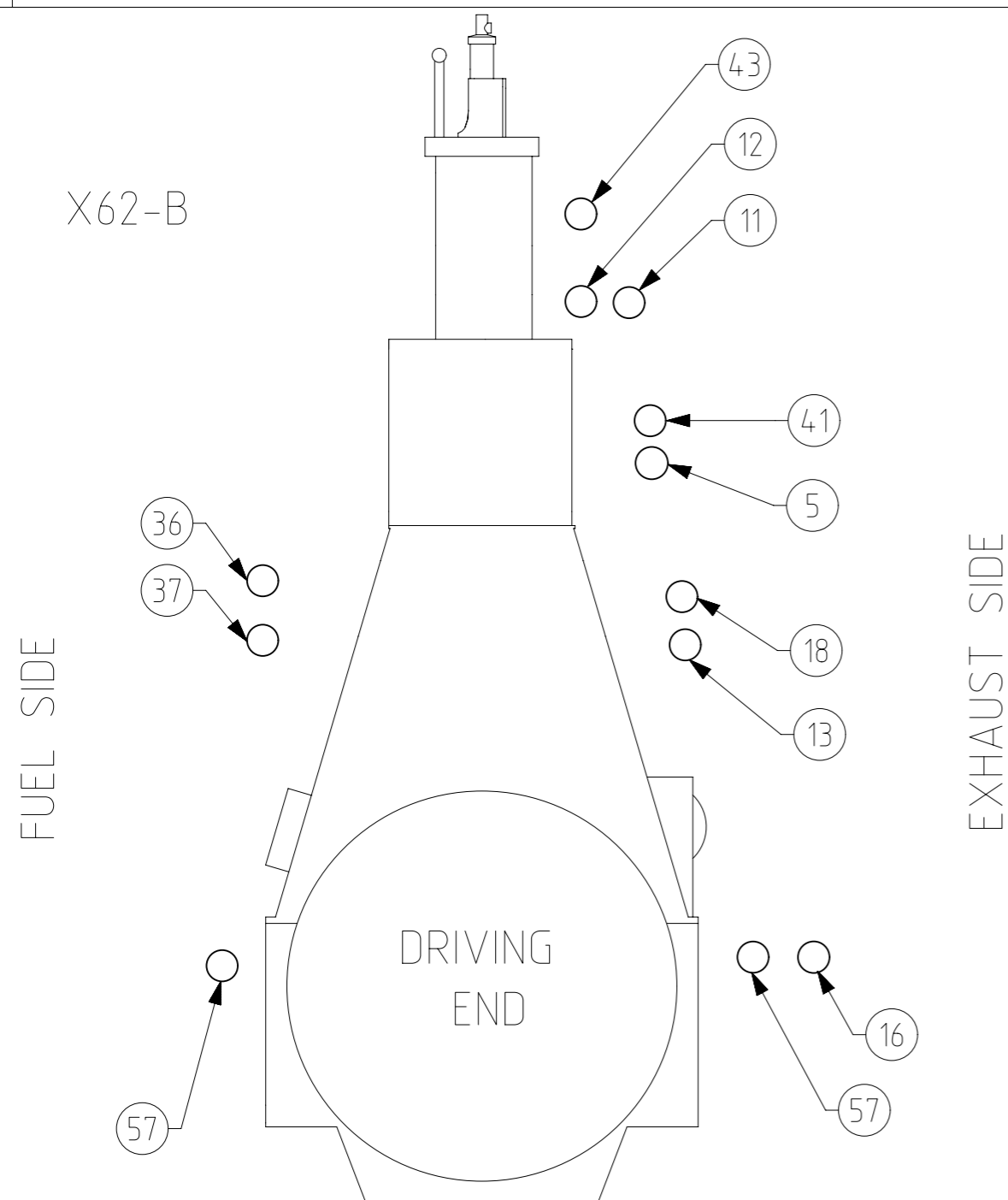
11.06.2018 dst009 Strödecke

Approved

DID - DIMENSIONAL DRAWING - Confidential

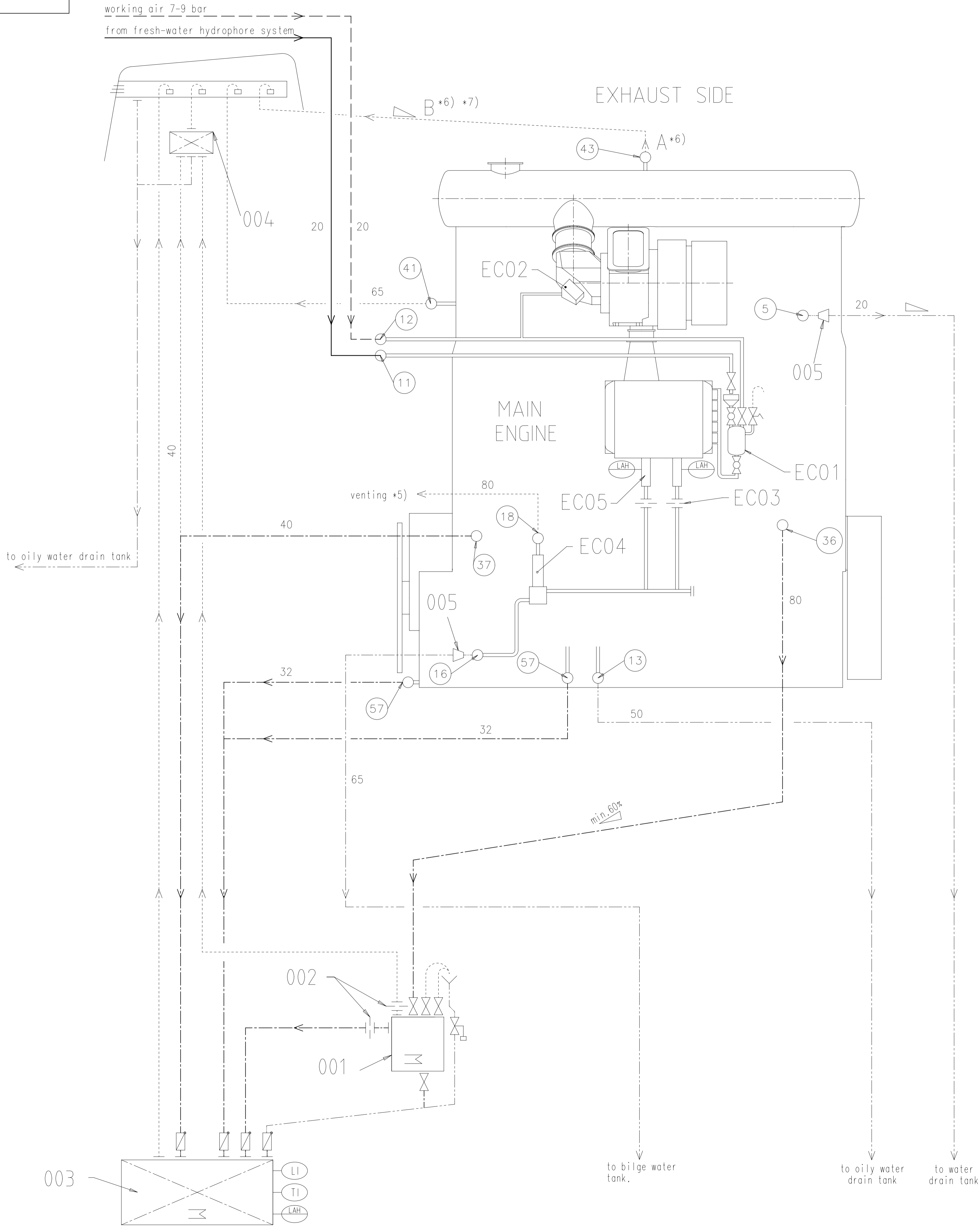
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A	<p>④① OUTLET - Venting crank case</p> <ul style="list-style-type: none"> <li>- Venting to funnel</li> <li>- Must not be connected to other venting pipes.</li> </ul>	<p>⑤ OUTLET - Cylinder cooling water drain.</p> <ul style="list-style-type: none"> <li>- Gravity flow to cooling water drain tank or appropriate tank.</li> </ul>	A
	<p>④③ OUTLET - Venting turbocharger</p> <ul style="list-style-type: none"> <li>- Venting to funnel</li> <li>- Minimum inclination according to TC suppliers specification</li> <li>- Must be not connected to other venting pipes.</li> </ul>	<p>①① INLET - Washing water SAC</p> <ul style="list-style-type: none"> <li>- From fresh water hydrophore system, supply pressure: 2.5 bar</li> </ul>	
	<p>⑤⑦ OUTLET - Various leakages</p> <ul style="list-style-type: none"> <li>- Gravity flow to sludge tank or appropriate tank.</li> </ul>	<p>①② INLET - Air for cleaning plants TC and SAC</p> <ul style="list-style-type: none"> <li>- Working air, supply pressure: 7-9 bar</li> </ul>	
B	<p>X62-B</p>	<p>①③ OUTLET - Oily water from scavenge air receiver</p> <ul style="list-style-type: none"> <li>- Gravity flow to oily water tank or appropriate tank.</li> </ul>	B
		<p>①⑥ OUTLET - SAC condensate water</p> <ul style="list-style-type: none"> <li>- Gravity flow to bilge water tank or appropriate tank.</li> </ul>	
		<p>①⑧ OUTLET - SAC venting</p> <ul style="list-style-type: none"> <li>- Free flow outside of engine room</li> </ul>	
C		<p>③⑥ OUTLET - Dirty oil piston underside</p> <ul style="list-style-type: none"> <li>- Flow with SAC pressure to sludge oil trap or appropriate arrangement.</li> <li>- Min. inclination of drain pipe: 60 %</li> </ul>	C
		<p>③⑦ OUTLET - Leakage oil gland box</p> <ul style="list-style-type: none"> <li>- Gravity flow to sludge tank or appropriate tank.</li> </ul>	



SURFACE PROTECTION SEE GROUP 0344	Made	27.04.2018	Sachin Tripathi	Scale	-	Size	A3	Page	1/2	Material ID	PAAD294068
TOLERANCING PRINCIPLE ISO8015	Chkd	11.06.2018	mhu019 Hug	Design Group	9724	Drawing ID	DAAD100055			Rev.	-
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	11.06.2018	dst009 Strödecke								

SYSTEM PROPOSAL



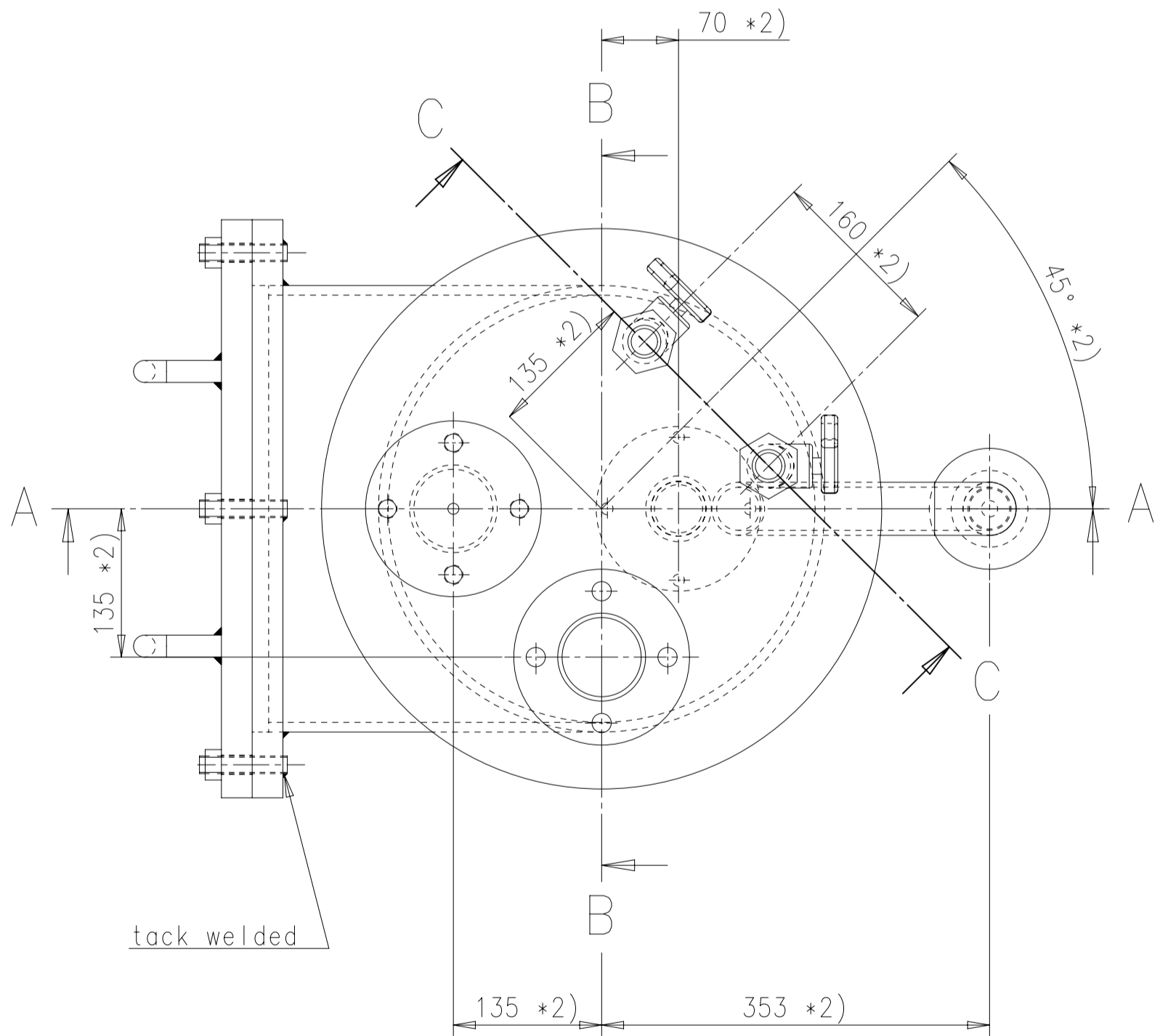
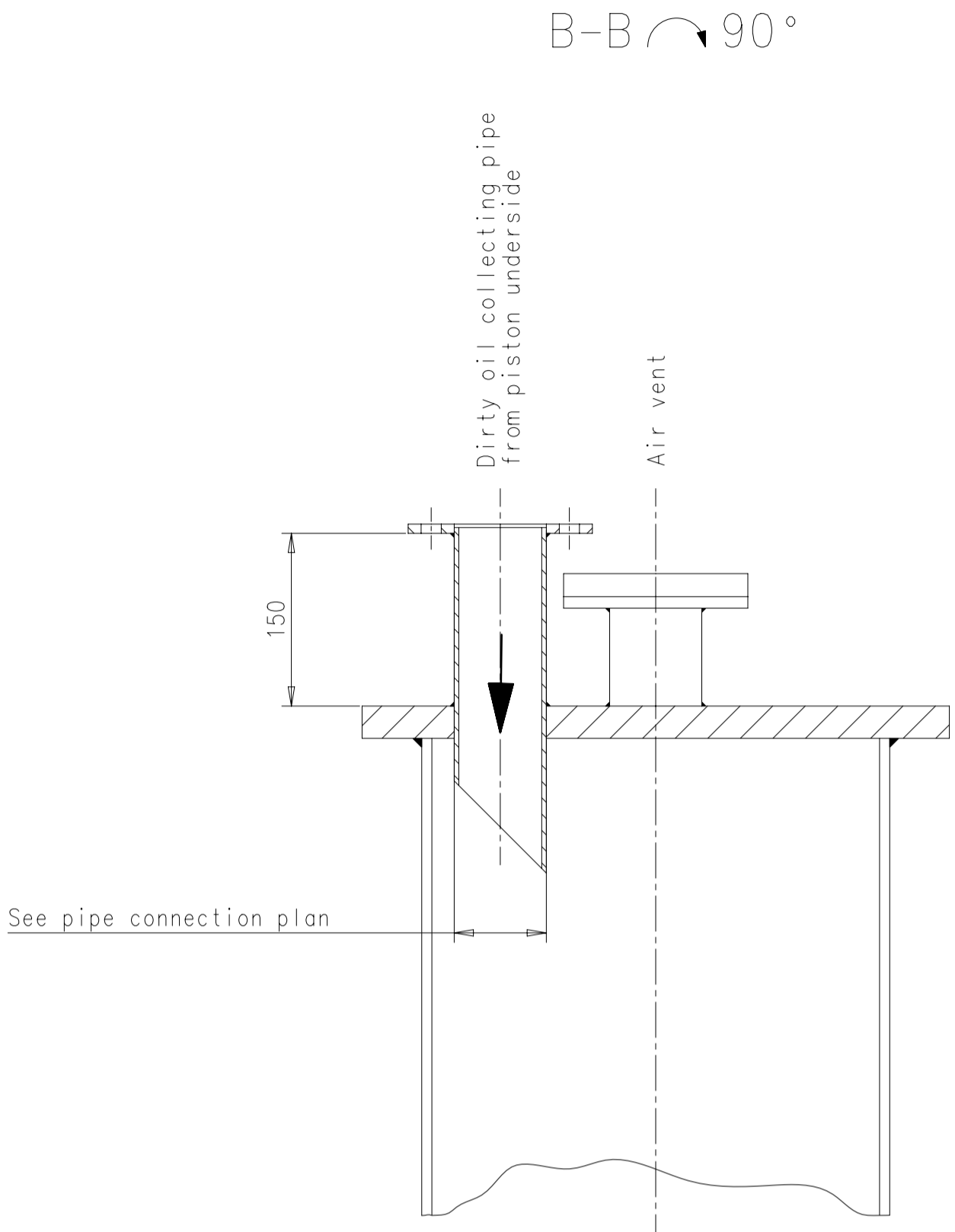
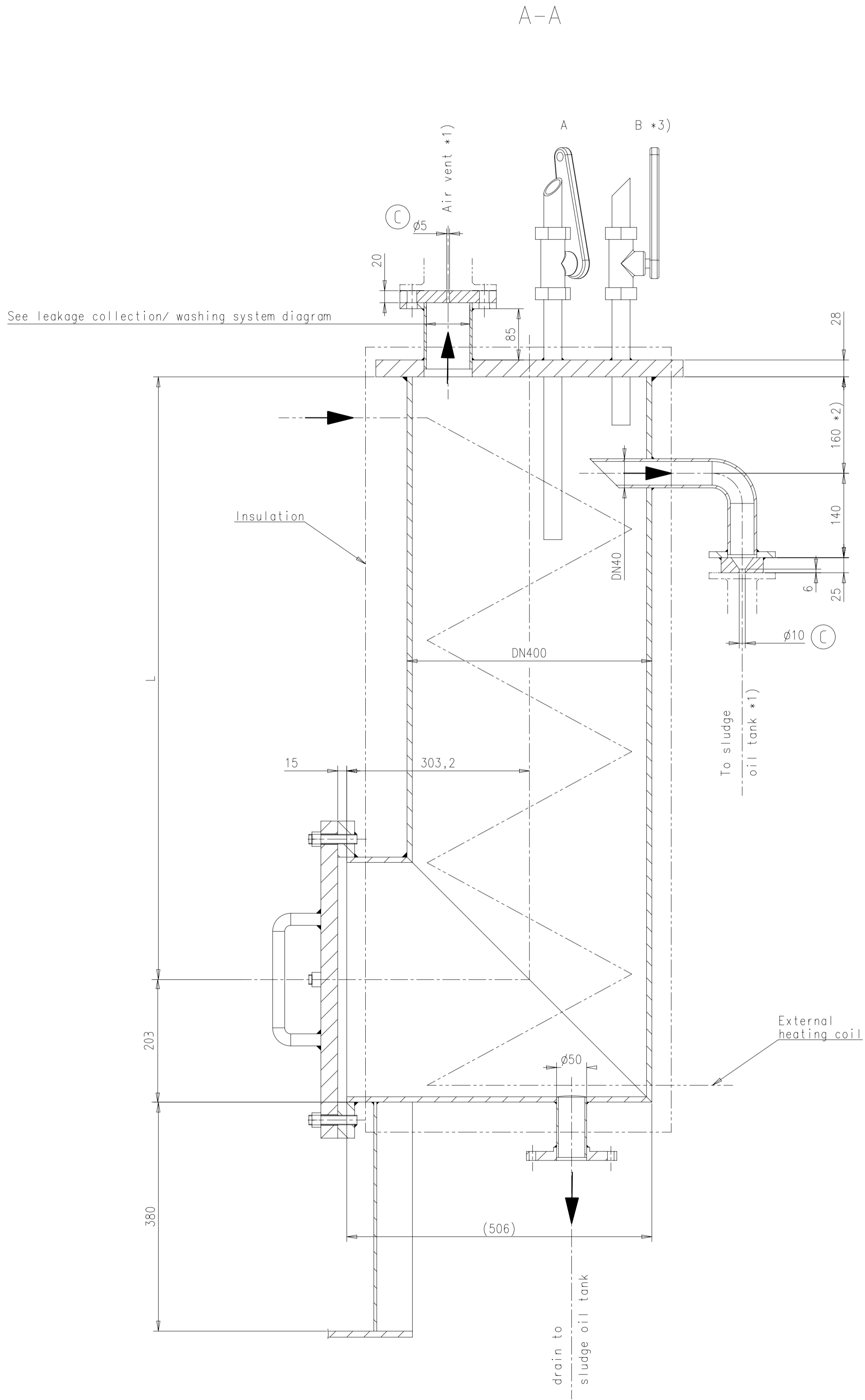
Turbocharger type	A*7)	B*8)	Min. Inclination	Pos.	SYSTEM COMPONENTS *1)
1x A170	65	65	≥ 5°	001	Sludge oil trap (according to separate drawing)
1x A175	65	65	≥ 5°	002	Throttling disc (size shown on separate sludge oil trap drawing)
1x A180	80	80	≥ 5°	003	Sludge or appropriate tank
2x A165	60	80	≥ 5°	004	Air vent manifold
2x A170	65	90	≥ 5°	005	Transition piece (adaptor) *10)
2x A175	65	100	≥ 5°		
1x A185	80	80	≥ 5°	Pos.	ENGINE CONNECTIONS *2)
1x MET53MB	65	65	≥ 3°	5	OUTLET - Cylinder cooling water drain
1x MET60MB	80	80	≥ 3°	11	INLET - Washing water SAC
1x MET65MB	80	80	≥ 3°	12	INLET - Air for cleaning TC and SAC
2x MET42MB	50	65	≥ 3°	13	OUTLET - Oily water from scavenge air receiver
1x MET71MB	80	80	≥ 3°	16	OUTLET - SAC condensate water *4)
2x MET53MB	65	80	≥ 3°	18	OUTLET - SAC venting *5)
1x MET83MB	100	100	≥ 3°	36	OUTLET - Dirty oil piston underside
2x MET60MB	80	100	≥ 3°	37	OUTLET - Leakage oil gland box
1x A270	65	65	≥ 5°	41	OUTLET - venting crankcase
1x A275	65	65	≥ 5°	43	OUTLET - Venting turbocharger
				57	OUTLET - Various leakages

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

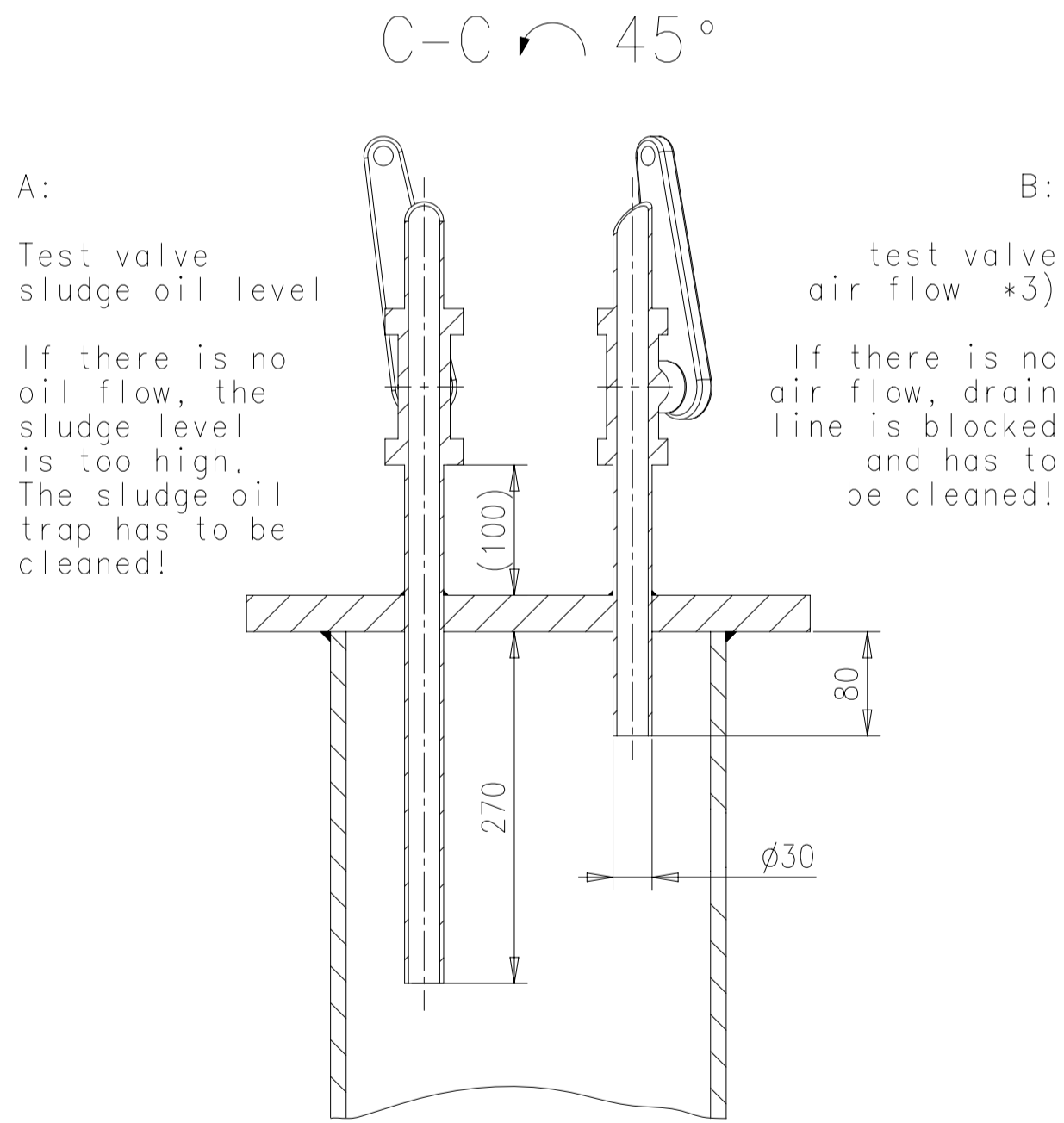
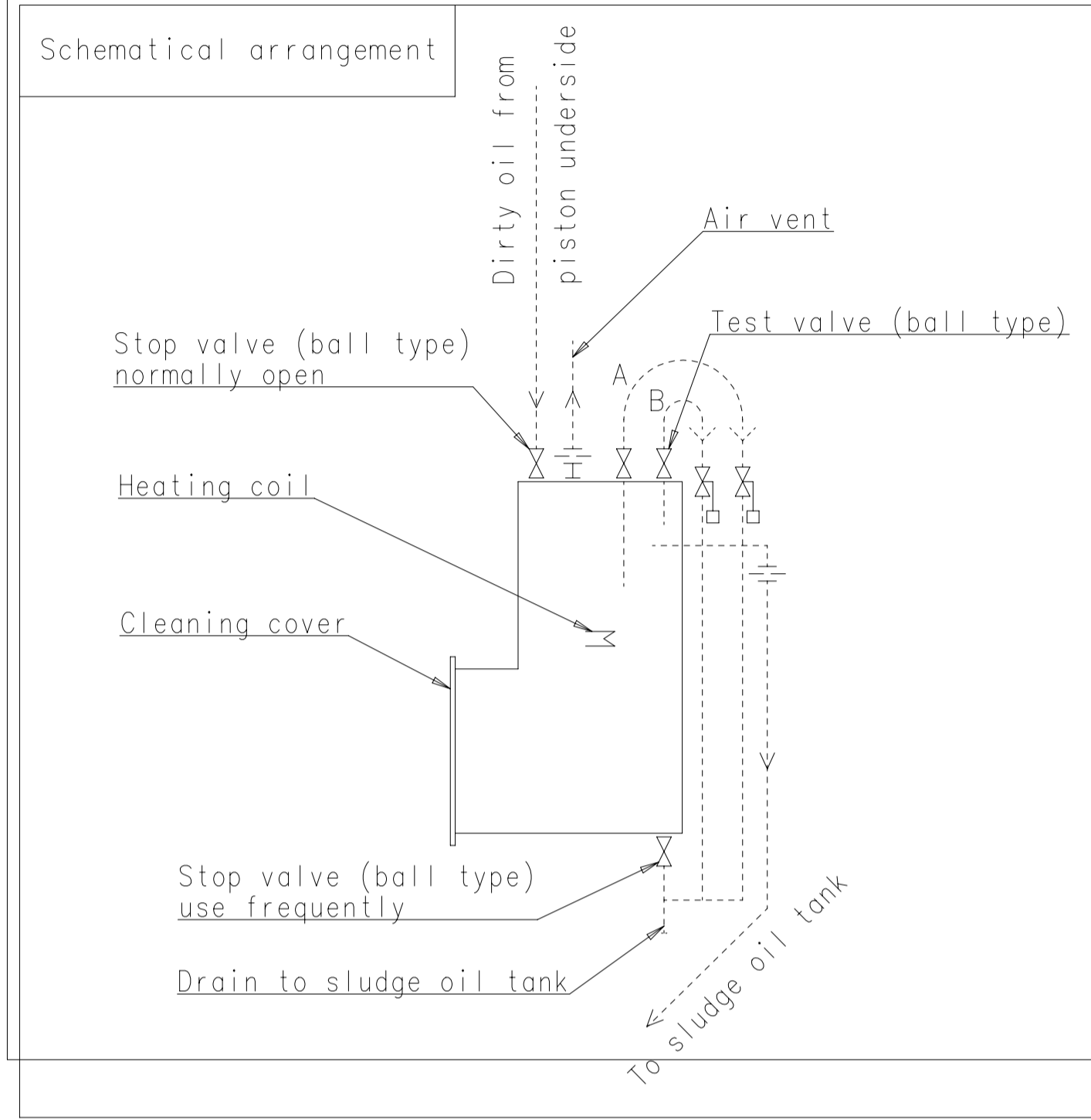
- Remarks
- Air vent and drain pipes must be fully functional at all inclination angles of the ship at which the engine must be operational.
  - \*1) To be delivered by external suppliers and to be installed by the shipyard.
  - \*2) Refer to the "Pipe Connection Plan" for the execution and location 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 scavenge 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) Vent pipe diameter as per turbocharger requirements.
  - \*8) Vent pipe diameter of common collection pipe with single turbocharger arrangement.
  - \*9) Vent pipe diameter of common collection pipe with arrangement of two turbbocharger.
  - \*10) Installed as required (check with the Pipe Connection Plan).


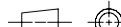
- Compressed air pipes
- ..... Air vent pipes
- Drain & overflow pipes
- Dirty oil drain pipes
- Washing water pipes
- ==== Pipes on engine
- Pipe connections

Free space for file	0-Code XXXXX		Main Drw.					
Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
Product 5-8X62-B		LEAKAGE COLLECTION/WASHING SYS.		LEAKAGE COLLECTION/WASHING SYS.		Net Weight 0,001		
Units mm kg	NX		Basic Material	Scale -	Size A1	Page 2/2	Material ID PAAD294068	Rev. -
SURFACE PROTECTION SEE GROUP 0344		Made 27.04.2018 Sachin Tripathi		Design Group		Drawing ID DAAD100055		
TOLERANCING PRINCIPLE ISO8015		Chkd 11.06.2018 mhu019 Hug		Appd 11.06.2018 dst009 Strödecke		9724		
GENERAL TOLERANCES ACCORDING TO ISO2768-mK								



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 55-96	L = 550 35-54
	Capacity:	150 l	100 l
	Working pressure:	4 bar	
	Testing pressure:	6 bar	
	Temperatur:	80°C	



Free space for file									Q-Code XXXXX		Main Drw.				
									Standard ISO; JIS						
Modif.	A	EAAD084051	22.01.2013	B	EAAD087849	14.07.2017	C	EAAD089439	12.07.2018	<input type="radio"/>					
		Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date			
<div> Winterthur Gas &amp; Diesel</div>				Product W-2S		SLUDGE OIL TRAP									
Units		mm kg		NX				Basic Material				Net Weight 0.001			
SURFACE PROTECTION SEE GROUP 034.4				Made 31.08.2009		J.BAUMANN		Scale 1:5		Size A1		Page 1/1		Material ID 107.425.369.500	
TOLERANCING PRINCIPLE ISO8015				Chkd				Design Group							
GENERAL TOLERANCES ACCORDING TO ISO2768-mK				Appd 13.11.2009		JBA029 Baumann		9724		Drawing ID 107.425.369				Rev. C	

## WinGD-X62-B LEAKAGE-COLLECTION and WASHING-SYSTEM

### TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2018-06-15	DRAWING SET	First web upload
2018-09-12	107.425.369	Sludge oil trap – new drawing revision

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