NetWeight						
0,001						
1	001	PAAD027918	LEAKAGE COLLECTION/WASHING SYS.	DAAD012642		0,001
Quantity PER ENGINE	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET

MaterialID	Modif.												Q-Code	Main Drw.
PAAD028188	Free space for lic.												XXXXX	H
		A	EAAD083540	01.02.2012	B	EAAD090104	21.11.2018						Standard ISO; JIS	
			Number	Drawn date		Number	Drawn date		Number	Drawn date		Number	Drawn date	

WIN GD Winterthur Gas & Diesel

Product W5-8X35-B

LEAKAGE COLLECTION/WASHING SYS.

LEAKAGE COLLECTION/WASHING SYS.

Units mm kg	NX	Basic Material	Net Weight

SURFACE PROTECTION SEE GROUP 0344	Made	27.12.2010 S. Feuerstein	Scale –	Size A3	Page 1/1	Material ID
TOLERANCING PRINCIPLE ISO8015	Chkd	28.12.2010 dst009 Strödecke	Design Group 9724	Drawing ID DAAD012721		Rev. B
GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Appd	28.12.2010 dst009 Strödecke				

Approved

PIG - P & I DIAGRAM - Internal

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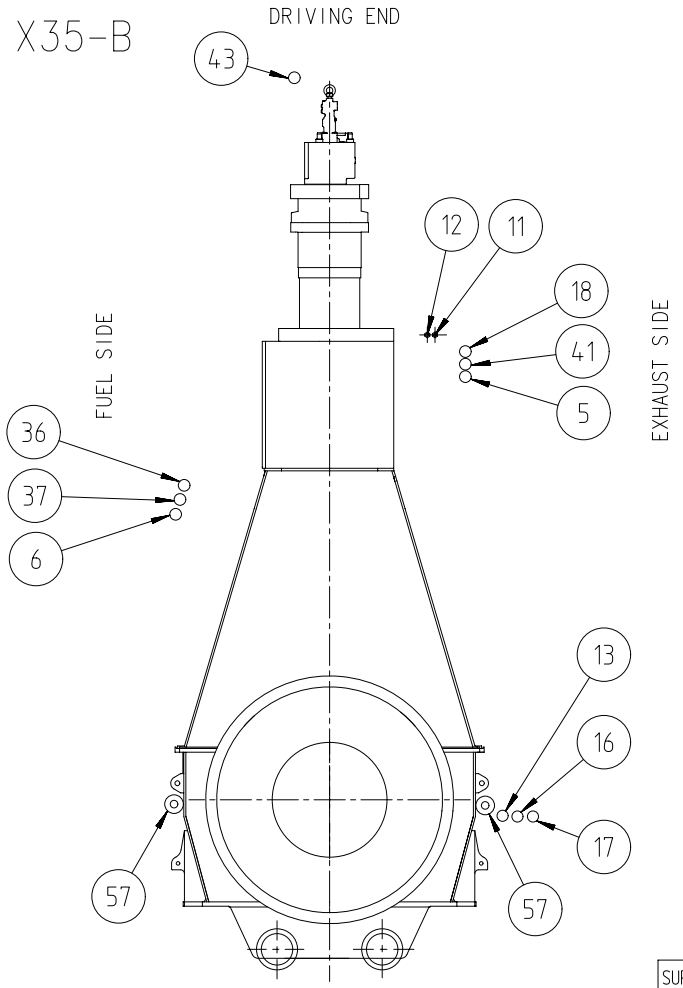
SPECIFICATION which must be met (C)

41	OUTLET - Venting cranck case - Venting to funnel - Must not be connected to other venting pipes.
43	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must be not connected to other venting pipes.
57	OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank.



5	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
6	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain 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.
17	OUTLET - Washing water from scavenge air coller. - Gravity flow to bilge water or chemical cleaning 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 %
37	OUTLET - Leakage oil gland box - Gravity flow to sludge tank or appropriate tank.

QTY	SEQ NO	Material ID	Material Name / Dimension, Occ	Standard or Drawing	Basic Material / Material Standard	Weight GR./NET
1	001	107.425.369.500	SLUDGE OIL TRAP	107.425.369		0,001

Free space for lic.

Q-Code

Standard: ISO; JIS

Main Drw.

Modif.	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number	Drawn date
A	EAAD084349	30.01.2013	B EAAD086551	26.08.2016	C EAAD090104	09.12.2018		

Approved

WIN GD Winterthur Gas & Diesel

Product: 5-8X35-B

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

TOLERANCING PRINCIPLE ISO8015

GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Made	20.12.2011	sfe006 Feuerstein	
Chkd	28.12.2010	dst009 Strödecke	
Appd	28.12.2010	dst009 Strödecke	

Scale: -

Design Group: 9724

Size: A3 | Page: 1/2 | Material ID: PAAD027918

Drawing ID: DAAD012642 | Rev.: C

P/G - P & I DIAGRAM - Internal

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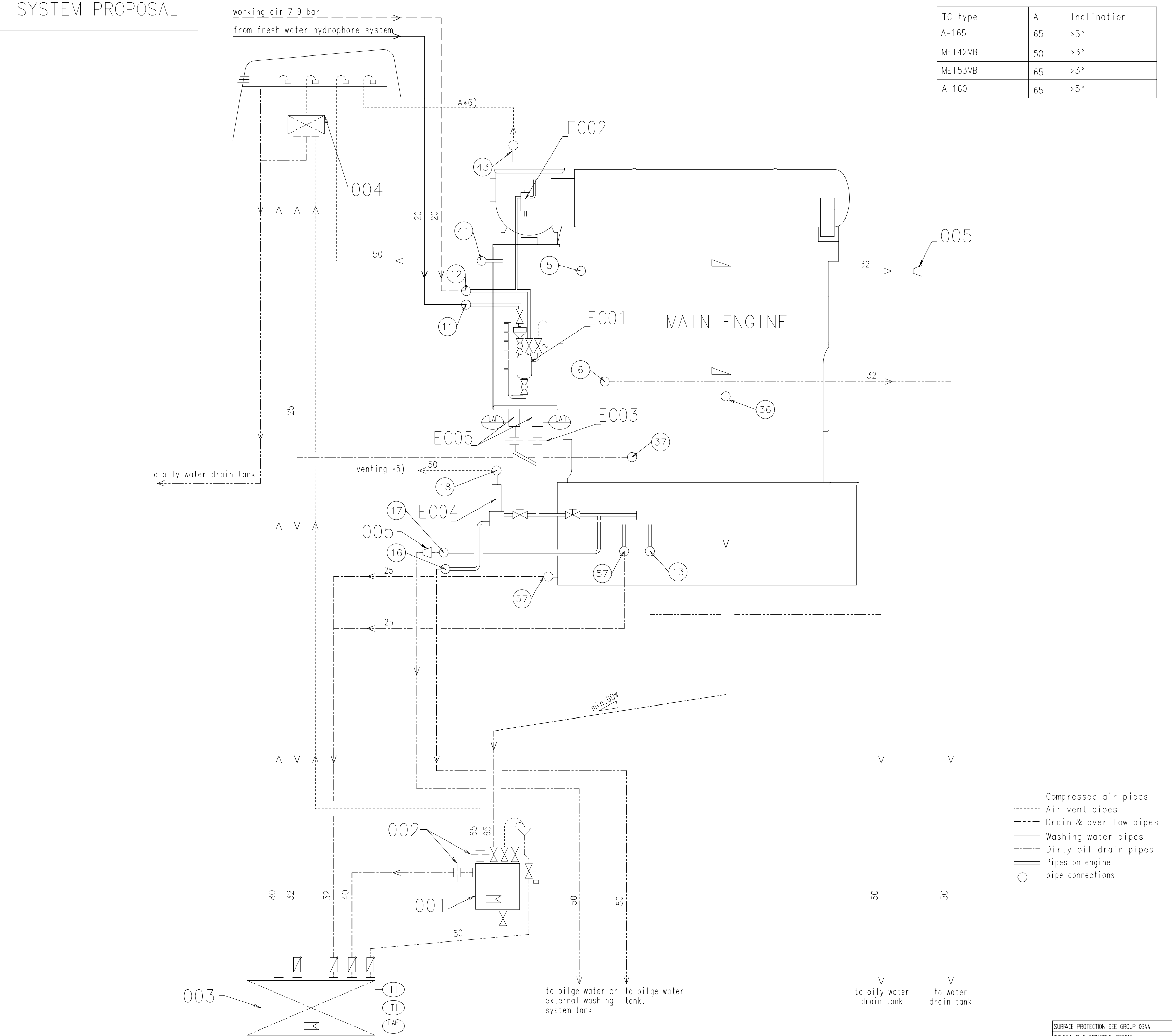
SYSTEM PROPOSAL



TC type	A	Inclination
A-165	65	>5°
MET42MB	50	>3°
MET53MB	65	>3°
A-160	65	>5°

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

Pos.	ENGINE CONNECTIONS *2) (C)
5	OUTLET - Cylinder cooling water drain
6	OUTLET - Cylinder cooling water drain
11	INLET - Washing water SAC
12	INLET - Air for cleaning TC and SAC
13	OUTLET - Oily water from scavenge air receiver *8)
16	OUTLET - SAC condensate water *4) *8)
17	OUTLET - Washing water from scavenge air coller
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) (C)
EC01	Scavenge air cooler washing plant
EC02	Dry cleaning device
EC03	Throttling disc
EC04	Venting Unit
EC05	Condensate drain unit

Remarks (C)

- 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) 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 sufficiently sized vents to avoid excessive pressure in the tanks. The drain amount depends on the ambient conditions.

Modif.	Number	Drawn date
A	EAAD084349	30.01.2013
B	EAAD086551	26.08.2016
C	EAAD090104	09.12.2018

Q-Code | Main Drw. | Standard: ISO; JIS

WIN GD Winterthur Gas & Diesel

Product: 5-8X35-B

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
TOLERANCING PRINCIPLE ISO8015
GENERAL TOLERANCES ACCORDING TO ISO2768-mK

Made: 20.12.2011 sfe006 Feuerstein | Scale - | Size A1 | Page 2/2 | Material ID PAAD027918
Chkd: 28.12.2010 dst009 Strödecke | Design Group 9724 | Drawing ID DAAD012642 | Rev. C
Appd: 28.12.2010 dst009 Strödecke

FIG - P & I DIAGRAM - Internal - Approved

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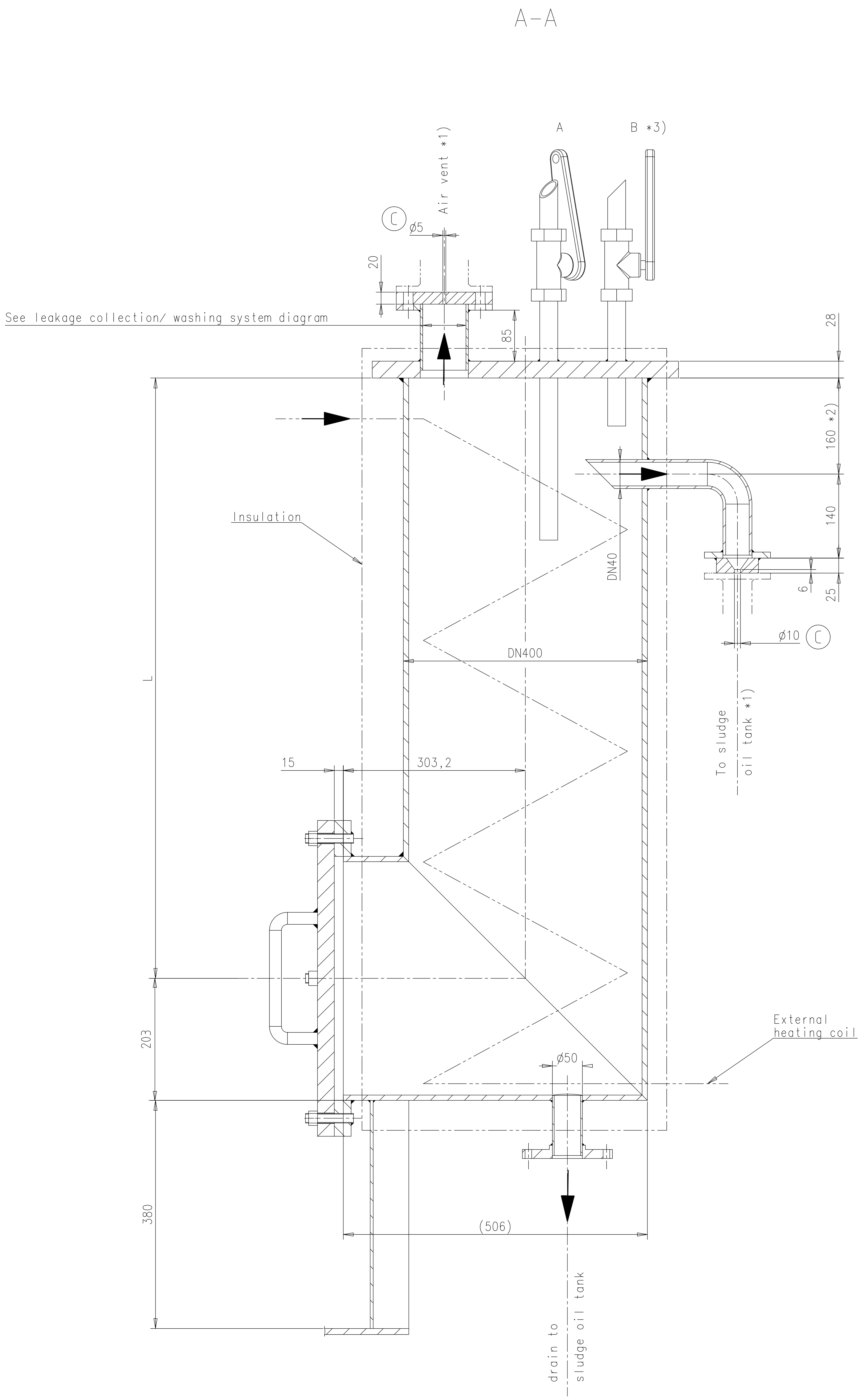
Remarks:

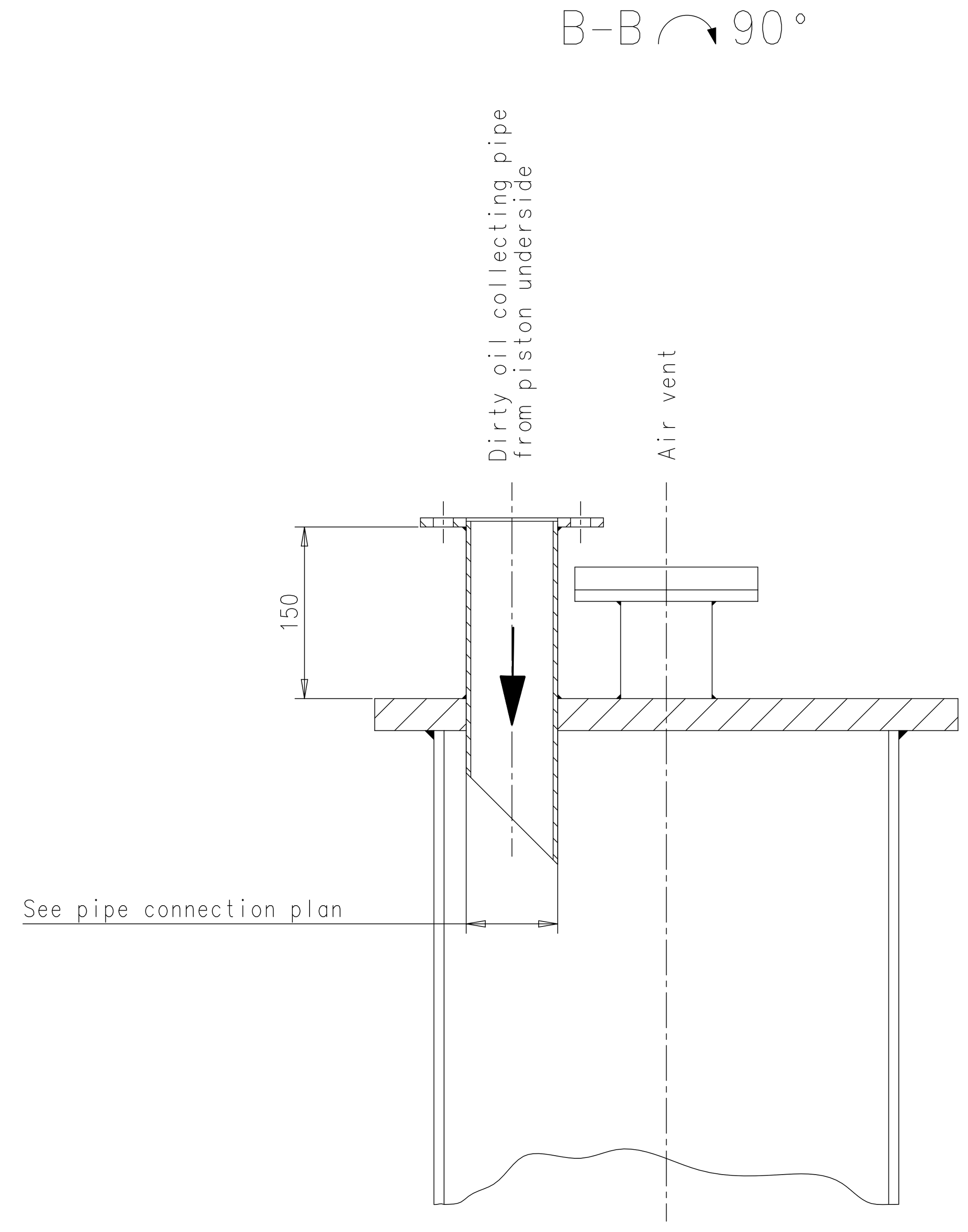
*1) Orifice to be as shown

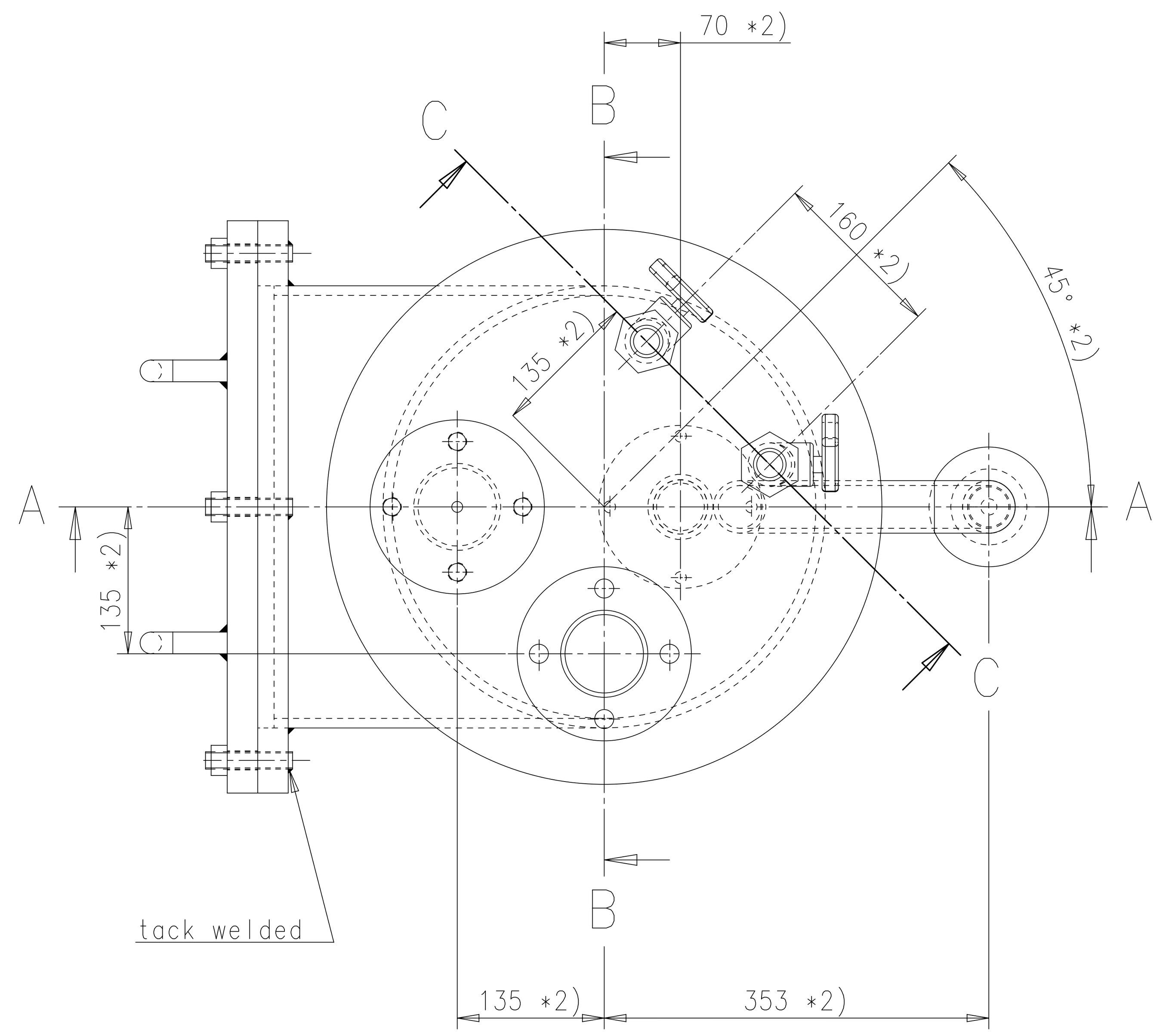
*2) Observe location of pipes with regard to each other

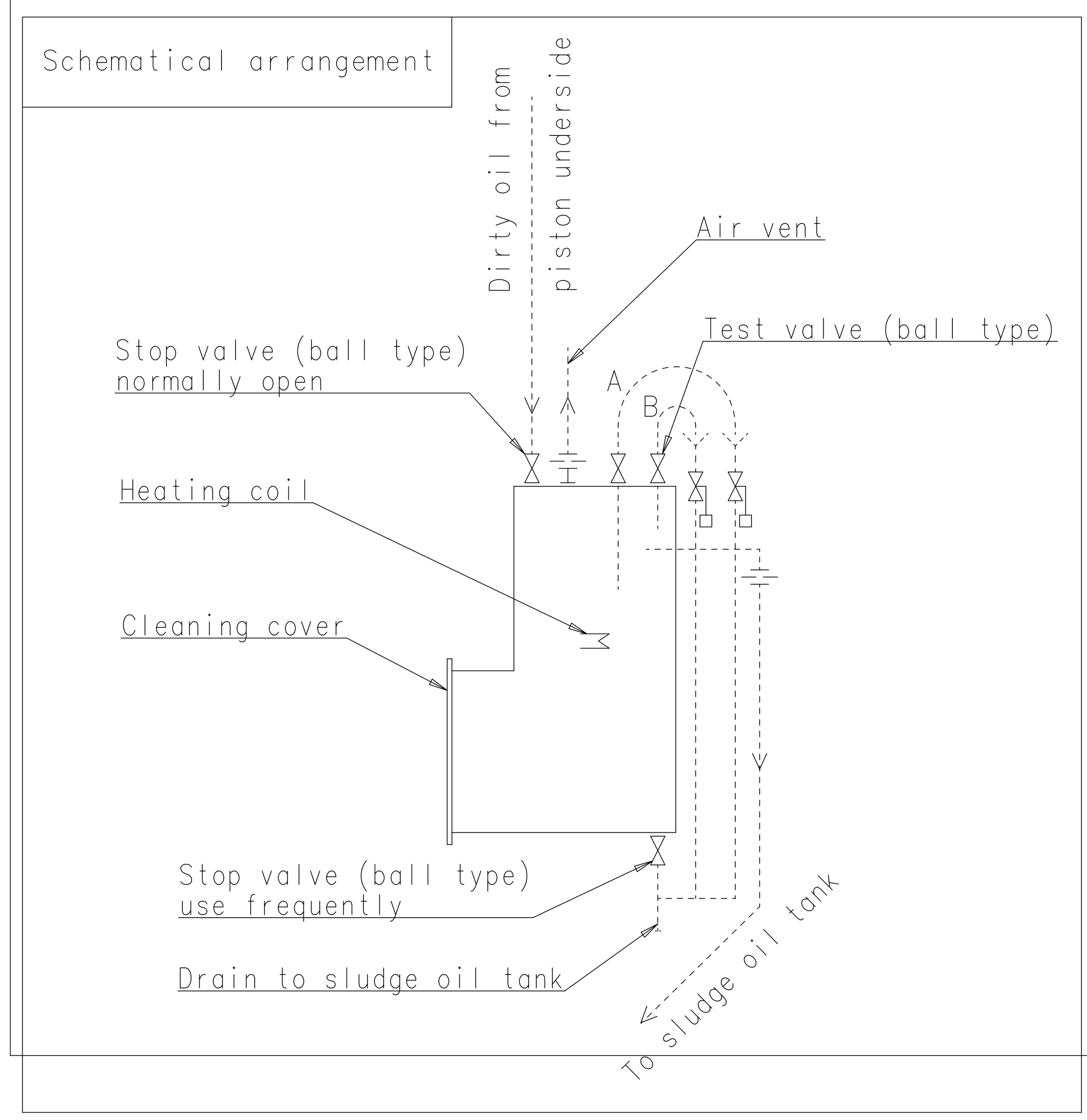
*3) Optional - Alternatives, such as level sensors, are possible

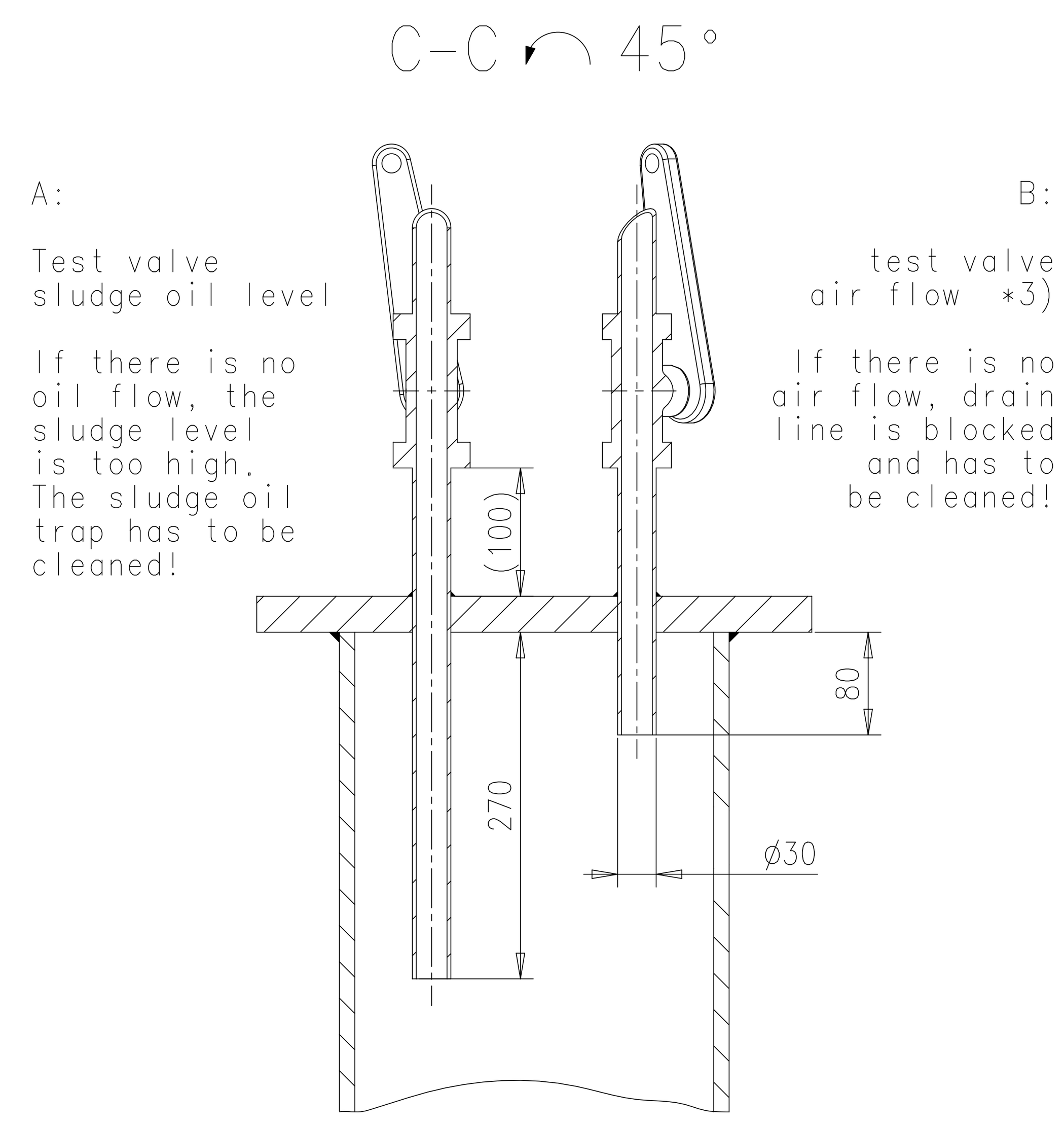
Details:		L = 1000	L = 550
	Cylinder bore size:	55-96	35-54
	Capacity:	150 l	100 l
	Working pressure:	4 bar	
	Testing pressure:	6 bar	
	Temperatur:	80°C	











Q-Code	XXXXX	Main Drw.	
Standard	ISO; JIS		

Modf.	A EAAD084051	22.01.2013	B EAAD087849	14.07.2017	C EAAD089439	12.07.2018	
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number / Drawn date

WIN GD Winterthur Gas & Diesel

Product W-2S

SLUDGE OIL TRAP

Units	mm kg	NX	Basic Material
Made	31.08.2009 J.BAUMANN	Scale 1:5	Size A1
Chkd		Design Group 9724	Page 1/1
Appd	13.11.2009 JBA029 Baumann		

Net Weight 0.001

Material ID 107.425.369.500

Drawing ID 107.425.369

Rev. C

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

Free space for ic

Approved

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MIDS - WinGD X35-B - Leakage Collection and Washing System

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2017-02-17	DRAWING SET	First web upload
2017-08-18	107.425.369	Sludge oil trap drg. - new revision
2018-10-03	107.425.369	Sludge oil trap drg. - new revision
2019-09-16	DAAD012721 DAAD012642	Main and system drg.- new revision

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