



1 2 3 4 5 6 7 8

A
B
C
D
E
F

Net Weight		0,001					
1	001	PAAD367808	LEAKAGE COLLECTION/WASHING SYS.	DAAD136469		0,001	
Quantity	SEQ NO	Material ID	Material Name	Dimension, Occ	Standard or Drawing	Basic Material Material Standard	Weight GR./NET
PAAD367810	Free space for lic.					Q-Code XXXXXX	Main Drw. H
						Standard ISO; JIS	
Material ID	Modif.						
	Number	Drawn date	Number	Drawn date	Number	Drawn date	Number
				Product 5-8X72DF 5-8X72DF-1.1 5-6X72DF-1.2	LEAKAGE COLLECTION/WASHING SYS. LEAKAGE COLLECTION/WASHING SYS.		
Units	mm kg	NX			Basic Material		Net Weight
SURFACE PROTECTION SEE GROUP 0344		Made	22.10.2020 Sudant Deogade		Scale	-	Size A3 Page 1/1 Material ID
TOLERANCING PRINCIPLE ISO8015		Chkd	26.04.2021 jpi101 Pickup		Design Group	9724	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd	26.04.2021 mhu019 Hug		Drawing ID	DAAD136470	
						Rev.	-

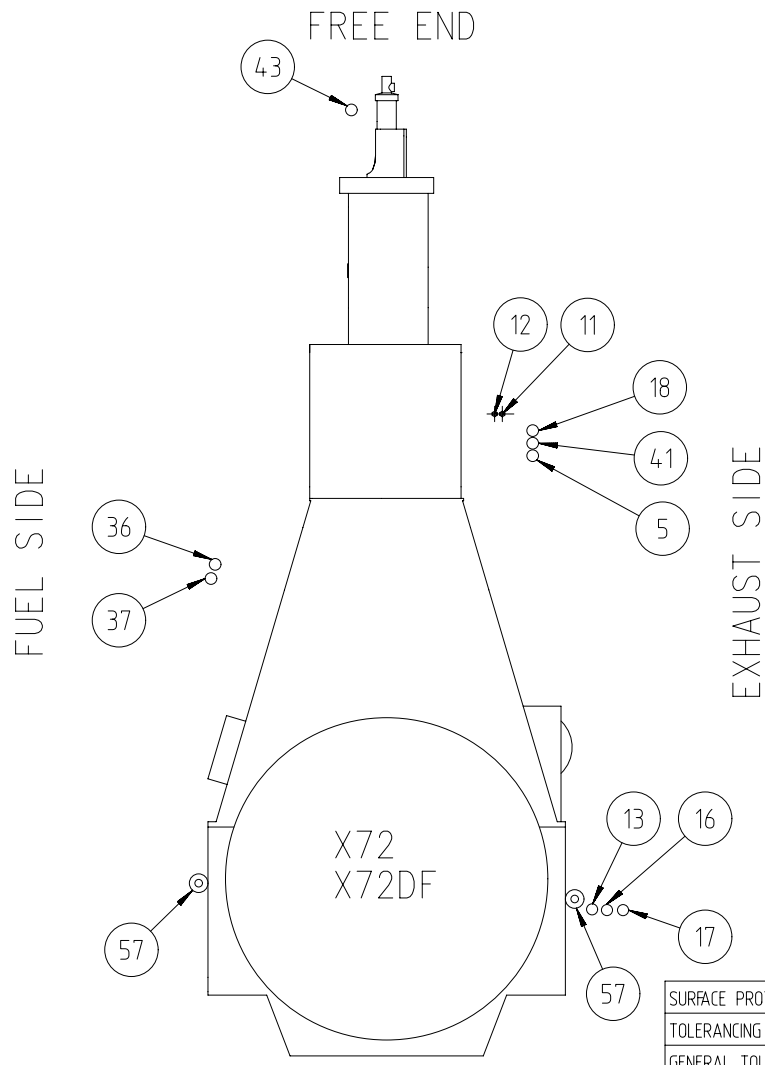
Approved
PD - PRODUCTION DRAWING - Confidential

1 2 3 4 5 6 7 8

SPECIFICATION which must be met

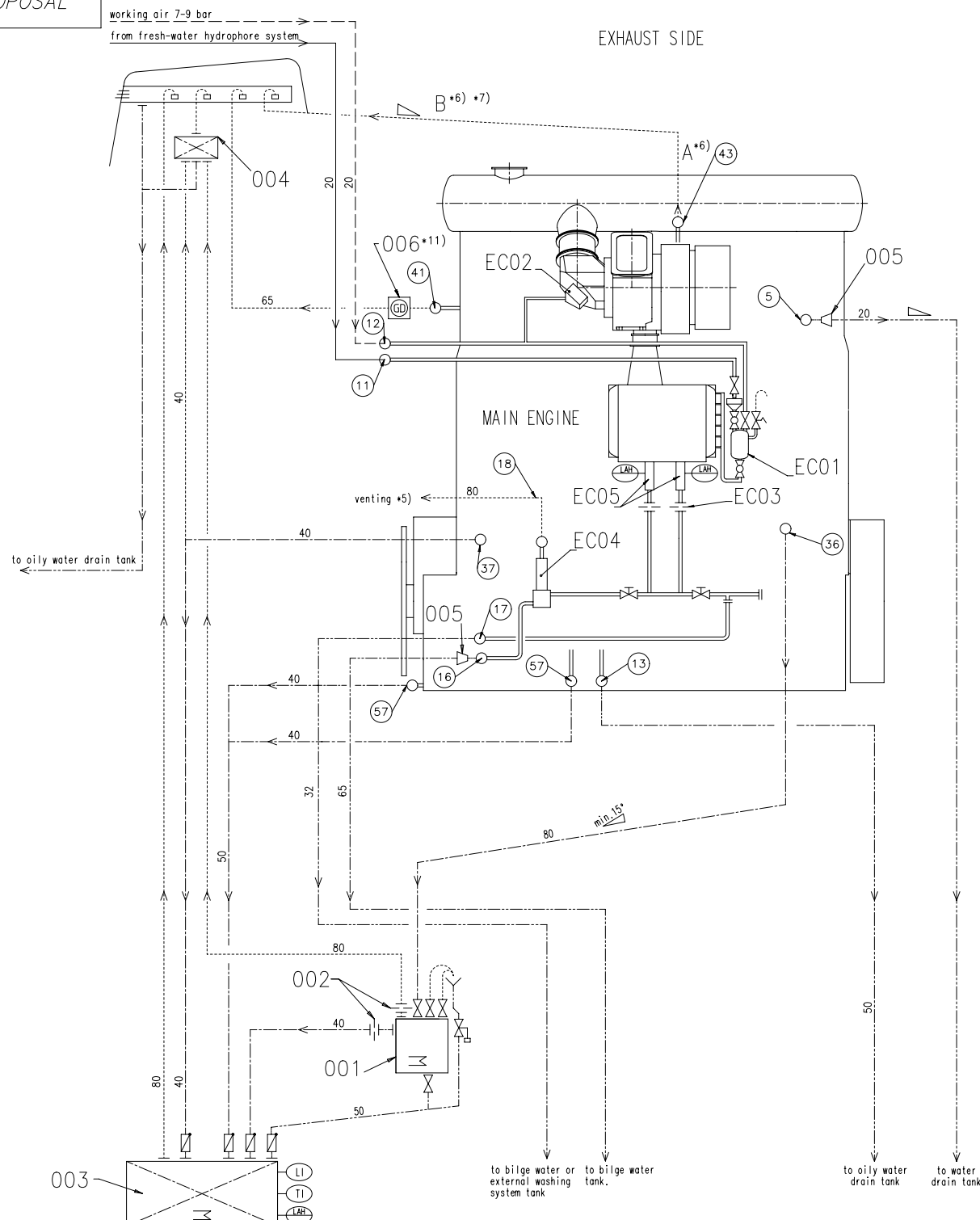
41	OUTLET - Venting crankcase - Venting to funnel - Must not be connected to other venting pipes.
43	OUTLET - Venting turbocharger - Venting to funnel - Minimum inclination according to TC suppliers specification - Must be not connected to other venting pipes.
57	OUTLET - Various leakages - Gravity flow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

5	OUTLET - Cylinder cooling water drain. - Gravity flow to cooling water drain tank or appropriate tank.
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 cooler. - 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: 15°
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	Dimension, Occ	Standard or Drawing	Weight GR./NET
Free space for lic.					Q-Code XXXXXX	Main Drw.
Modif.					Standard ISO; JIS	
Number	Drawn date	Number	Drawn date	Number	Drawn date	Number
			Product 5-8X72DF	LEAKAGE COLLECTION/WASHING SYS. SYSTEM DIAGRAM LEAKAGE COLLECTION/WASHING SYS.		
Units	mm kg	NX	Basic Material		Net Weight 0,001	
Made	22.10.2020	Sudant Deogade	Scale	-	Size A3	Page 1/2
Chkd	26.04.2021	jpi101 Pickup	Design Group	9724	Material ID	PAAD367808
Appd	26.04.2021	mhu019 Hug	Drawing ID	DAAD136469	Rev.	-
SURFACE PROTECTION SEE GROUP 0344						
TOLERANCING PRINCIPLE ISO8015						
GENERAL TOLERANCES ACCORDING TO ISO2768-mK						

SYSTEM PROPOSAL



Turbocharger type	A *7)	B *8)	Min. Inclination
1x A165	65	65	>5°
1x A265	65	65	>5°
1x A170	65	65	>5°
1x A270	65	65	>5°
1x A175	65	65	>5°
1x A275	65	65	>5°
1x A180	80	80	>5°
1x A280	80	80	>5°
1x A185	80	80	>5°
1x A285	80	80	>5°
2x A165	65	80	>5°
2x A170	65	90	>5°
2x A175	65	100	>5°
2x A180	80	100	>5°
2x A185	80	125	>5°
2x A190	80	125	>5°
1x MET5.3MB	65	65	>3°
1x MET6.0MB	80	80	>3°
1x MET6.6MB	80	80	>3°
1x MET7.1MB	80	80	>3°
1x MET8.3MB	100	100	>3°
2x MET5.3MB	65	80	>3°
2x MET6.0MB	80	100	>3°
2x MET6.6MB	80	100	>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) *9)
006	Gas detector *11)

Pos.	ENGINE CONNECTIONS *2)
5	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 *10)
16	OUTLET - SAC condensate water *4) *10)
17	OUTLET - Washing water from scavenge air cooler.
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

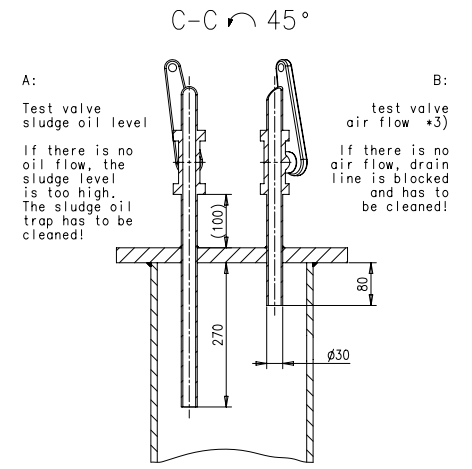
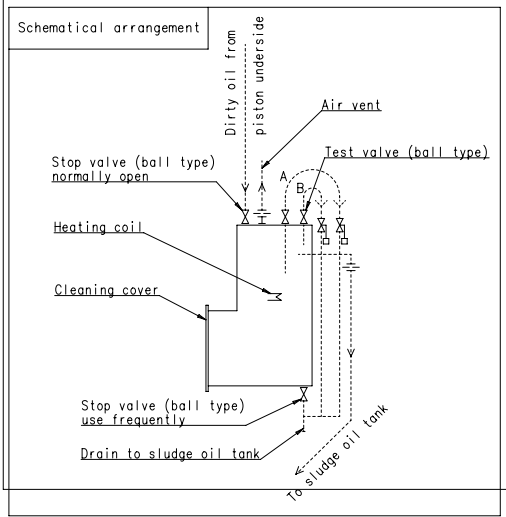
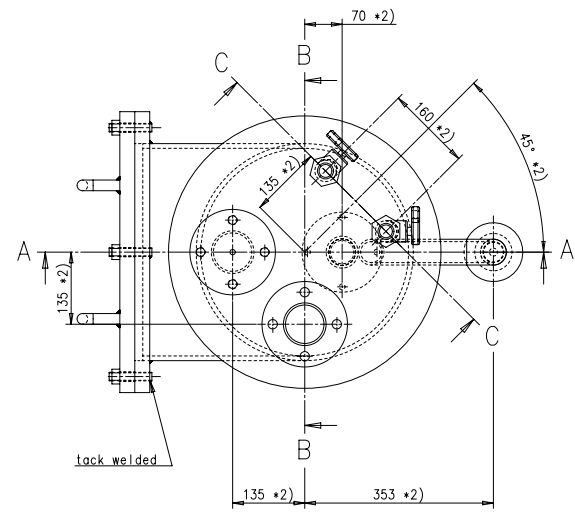
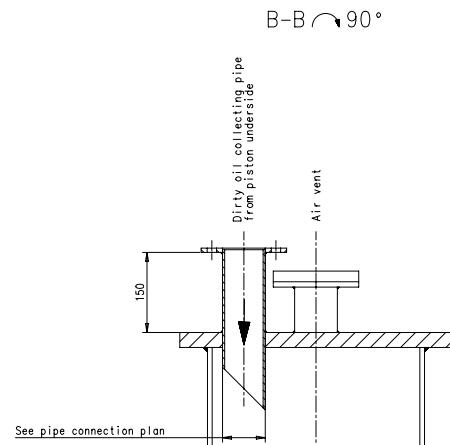
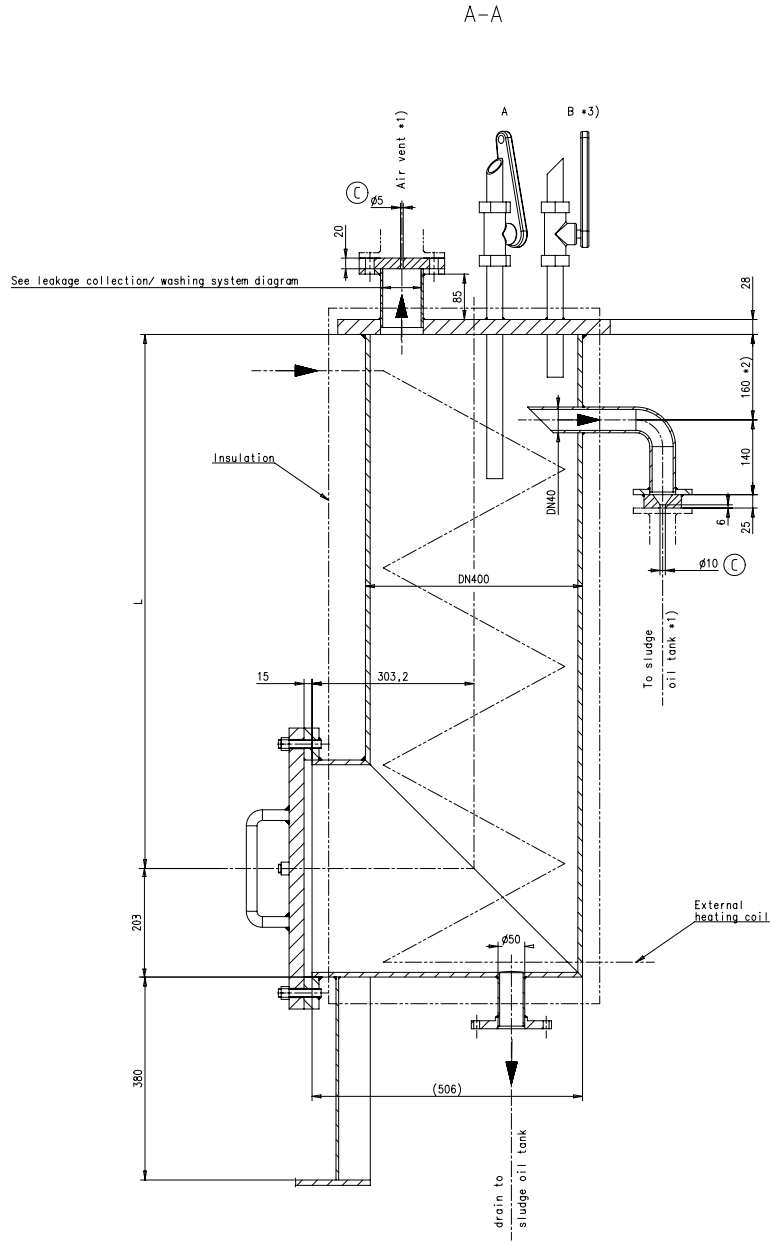
Pos.	ENGINE COMPONENTS *3)
EC01	Scavenge air cooler washing plant
EC02	Dry cleaning device
EC03	Throttling disc
EC04	Venting Unit
EC05	Condensate drain unit

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
- *9) Installed as required (check with the Pipe Connection Plan).
- *10) Drain connections 13 and 16 include 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.
- *11) Optional, if requested by the flag state and/or class to achieve IGC compliance.

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

		Product: 5-8X72DF Drawing ID: DAAD1364.69	Q-Code: XXXXX Standard: ISO, JIS	Main Drw.
Units: mm kg NX	Scale: -	Size: A1	Page: 2/2	Material ID: PAAD367808
SURFACE PROTECTION SEE GROUP 0344 TOLERANCING PRINCIPLE ISO8015 GENERAL TOLERANCES ACCORDING TO ISO2768-mK	Made: 22.10.2020 Chd: 26.04.2021 Apd: 26.04.2021	Sudant Deogade jgr101 Pickup mhu019 Hug	Design Group: 9724	Net Weight: 0,001



G-Code XXXXX Standard ISO, JIS		Main Drw.	
Mod. A EAAD08405122.01.2013	B EAAD08784914.07.2017	C EAAD08943912.07.2018	D EAAD08943912.07.2018
Number	Drawn date	Number	Drawn date
Product W-25		SLUDGE OIL TRAP	
Units	mm kg	NX	Basic Material
Scale	1:5	Size	AT
Page	1/1	Material	107.425.369.500
Net Weight	0.001		

SURFACE PROTECTION SEE GROUP 0344		Made 31.08.2009 J.BAUMANN		Scale 1:5		Size AT		Page 1/1		Material 107.425.369.500	
TOLERANCING PRINCIPLE ISO8015		Design Group		Drawing ID		9724		107.425.369		Rev. C	
GENERAL TOLERANCES ACCORDING TO ISO2768-mK		Appd 13.11.2009 JBA020 Baumann		Product		W-25		SLUDGE OIL TRAP		Net Weight 0.001	

MIDS - WinGD-X72DF/1.1/1.2 - LEAKAGE-COLLECTION and WASHING-SYSTEM (DG9724)

TRACK CHANGES

DATE	SUBJECT	DESCRIPTION
2021-05-04	DRAWING SET	First web upload

DISCLAIMER

© Copyright by Winterthur Gas & Diesel Ltd.

All rights reserved. No part of this document may be reproduced or copied in any form or by any means (electronic, mechanical, graphic, photocopying, recording, taping or other information retrieval systems) without the prior written permission of the copyright owner.

THIS PUBLICATION IS DESIGNED TO PROVIDE AN ACCURATE AND AUTHORITATIVE INFORMATION WITH REGARD TO THE SUBJECT-MATTER COVERED AS WAS AVAILABLE AT THE TIME OF PRINTING. HOWEVER, THE PUBLICATION DEALS WITH COMPLICATED TECHNICAL MATTERS SUITED ONLY FOR SPECIALISTS IN THE AREA, AND THE DESIGN OF THE SUBJECT-PRODUCTS IS SUBJECT TO REGULAR IMPROVEMENTS, MODIFICATIONS AND CHANGES. CONSEQUENTLY, THE PUBLISHER AND COPYRIGHT OWNER OF THIS PUBLICATION CAN NOT ACCEPT ANY RESPONSIBILITY OR LIABILITY FOR ANY EVENTUAL ERRORS OR OMISSIONS IN THIS BOOKLET OR FOR DISCREPANCIES ARISING FROM THE FEATURES OF ANY ACTUAL ITEM IN THE RESPECTIVE PRODUCT BEING DIFFERENT FROM THOSE SHOWN IN THIS PUBLICATION. THE PUBLISHER AND COPYRIGHT OWNER SHALL UNDER NO CIRCUMSTANCES BE HELD LIABLE FOR ANY FINANCIAL CONSEQUENTIAL DAMAGES OR OTHER LOSS, OR ANY OTHER DAMAGE OR INJURY, SUFFERED BY ANY PARTY MAKING USE OF THIS PUBLICATION OR THE INFORMATION CONTAINED HEREIN.