| 1 | 2 | 3 | 4 |
|---|---|---|---|
| | | | |

А

В

C

D

| Available e | <u>executions</u> | | | | |
|------------------|-------------------|------------------------|---------------------------------|----------------------------------|----------------------------------|
| с I. | M 1 1 1 | | | ute 1: lass (Tier) | |
| Execution No. | Material ID | Tier II without SCR | Tier III HP-SCR on-engine | Tier III HP-SCR off-engine | Tier III LP-SCR off-engine |
| 001 | PAAD177827 | Х | | Х | Х |
| 002 | PTAA038558 | | Х | | |

NOTE

А

В

C

D

The above executions can be configured using the Engine Configurator.

Detailed guidance for the executions is provided within the Marine Installation Manual (MIM). If a specific execution of interest is not shown in the above table, then it may still be under development or not available. For further information or in case of a project-specific request, WinGD must be contacted directly.

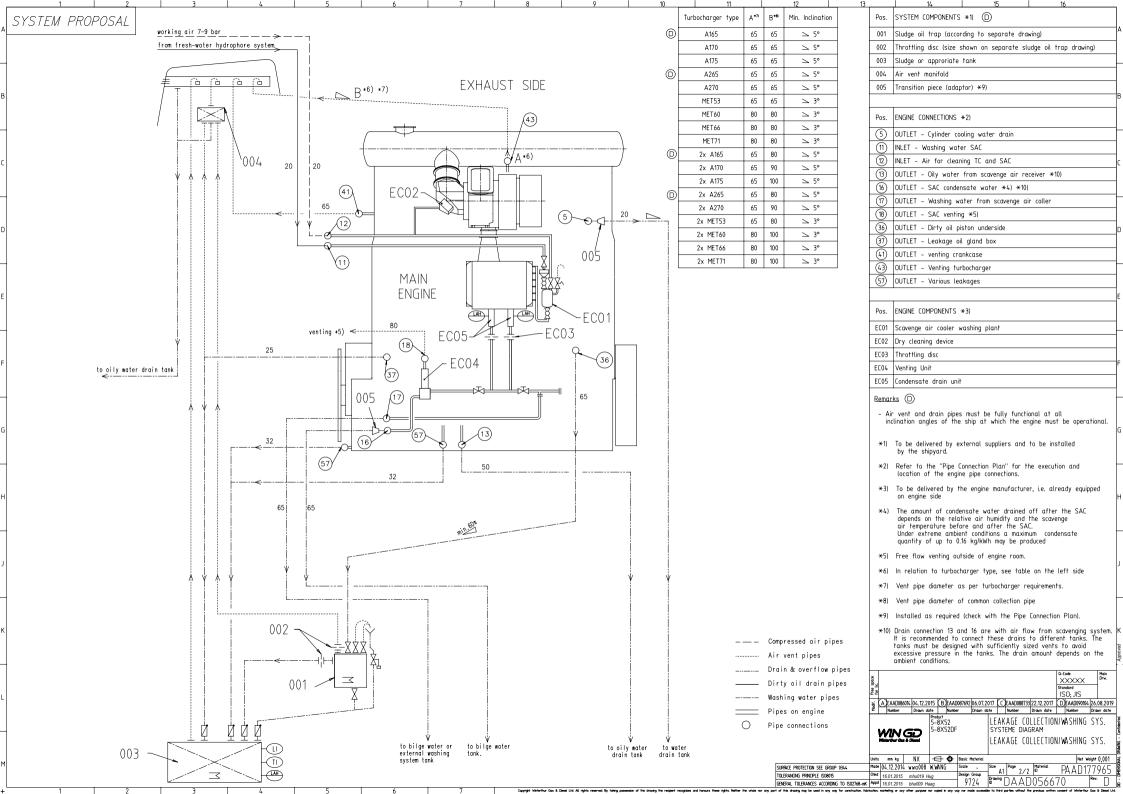
This publication is designed to provide accurate and authoritative information with regard to the subject-matter covered as it was available at the time of printing. However, the publication deals with complicated technical matters suited only for specialists in the area, and the design of the subject-products is subject to regular improvements, modifications and changes. Consequently, the publisher and copyright owner of this publication cannot accept any responsibility or liability for any eventual errors or omissions in this document 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.

| | Prod. | | Х | 52 | | | | | | | | | | | | - | | |
|---|-----------------------------------|----------------------|-----------------------------------|---|-------------------------------|------------------|----------------|----------|-----------------|------------|--------|----------|---------|------------------|--------|-----|----|---|
| | <u> </u> | | | | | | | | | | | | | | | | | |
| | ry | | | | | | | | | | | | | | | | | |
| | e History | | | | | | | | | | | | | | | | | |
| Ξ | Change | | | | | | | | | | | | | | | | | Ε |
| | Chi | - | sna102 | mhu019 | 24.05.2 | 023 | CNAA003753 | new [| Design | | | | | | | - | - | |
| | | Rev. | Creator | Approver | Approval | Date | Change ID | Change S | Synopsis | | | | Approve | d Activity | / Code | Е | С | |
| | WIN GD Winterthur Gas & Diesel | | | | | LEAKA MIDS ma | | | | -10N/ | washii | NG S | YS. | | | - | | |
| | S | epa | .rate E | BOM av | ailable | 2 | Dimension | | | | | | | | | | | |
| | Sca | le | - | + | | Х | Units $[mm]$ | [kg] | Basic | Material | | | | Net We | ight | 0.0 | 01 | F |
| | By taki and ho | ng poss nours ti | session of the hese rights. Ne | Diesel Ltd. All drawing the re either the whole in any way for | cipient recog e nor any pa | gnizes art | Main Design | | Desigr Group | | 9724 | Q-Code 🏻 | XXXXX | Stand | ard | W[| DS | ' |
| | fabrica any wa | tion, ma iy nor m | arketing or any ade accessibl | o other purpose e to third partie Winterthur Gas | e nor copied es without th | in ne | Qty per | | A4 | ltem ID | Ρ | TAA02 | 5308 | Drawii Page/s | | 1 | /1 | |
| | | | 1 | | | | 2 | | | | 3 | | | 4 | | | | |

| SEQ NO | QTY | Item ID | | Item Name | | | | Dimension | Standard-ID | Basic Material | | , | Net Neight |
|---------------------------|-----------------------------------|--|--|---|----------------|-----------|-----------------------|-----------------|--------------------|----------------|------------------------|----|---------------|
| 001 | 1 | PAAD1 | 77965 | LEAKAGE CO | LLECTION/WASHI | NG SYS. | | | | | | | 0.001 |
| | | | | | | | | | | | | | |
| Prod. | | | ,6,7,8 X52 | | | | | | | | | | |
| ý | В | sna102 | mhu019 | 07.11.2022 | CNAA002687 | Main De | esian/Dr | awing Introduce | d | | | 4 | 3 |
| Change History | | yku101 | | 13.09.2019 | EAAD090104 | | • | | onding ChangeNotic | 9 | | 4 | 3 |
| Chan | | grpadm | bha009 | 16.01.2015 | EAAD778076 | - | | | | | | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Sy | /nopsis | | | | Activity Code | E | С |
| | | | NG r Gas & | JD Diesel | LEAK | AGE | EC | OLLEC | TION/W | ASHIN | IG SY | /S | • |
| Conve | ight Mir | | of Materia | al All rights reserved. | Dimension | | | | | | | | - |
| By ta | aking p | ossession | of the docur | anent the recipient | 011113 | 1 11 31 | Basic Mat Design G | | 9724 Q-Code | XXXXX | Net Weight Standard | 1/ | 0 VDS |
| any p constr copied | art of t uction, f l in any | his docume abrication, m way nor mad | nt may be us narketing or an e accessible to | ed in any way for y other purpose nor third parties without Ir Gas & Diesel Ltd. | | Engine | | ltem ID | PAAD1 | | BOM Page/s | | 1/01 |

| | | 1 | 2 | 3 | 4 | | 5 | 6 | | 7 | | 8 | | 1 |
|---|----|---|--------------------------------------|--|---|--------------|--|---|-------------------------|----------------------------|-------------------------|--|-----------------------------------|---------------|
| | | SPECIFICATIO |)N which must | be met 🛈 | | | | | | | | | | |
| 4 | 40 | OUTLET - Ventir - Venting to fu - Must not be | | entina pipes | | 5 | OUTLET – Cylir – Gravity flow | nder cooling wa to cooling wat | ter drain. er drain | tank or ap | opropriate | tank. | | |
| | | OUTLET – Ventir – Venting to fu | ig turbocharger | | | | INLET – Washi – From fresh | ng water SAC water hydropho | re system | n, supply pr | ressure: 2 | 2.5 bar | | |
| | | – Minimum inclina | | suppliers specification enting pipes. | 1 | 12 | | or cleaning plan supply pressur | | | | | | |
| | | OUTLET – Variou – Gravity flow t | us leakages To sludge tank or app | propriate tank. | | (13) | | water from so to oily water | | | tank. | | | |
| | | | ×52 в | | | (16) | | condensate wa to bilge water | | appropriat | e tank. | | | |
| _ | | | X52DF | -(43) | | (17) | OUTLET – Was – Gravity flow | shing water fro to bilge water | m scaveng or chemi | e air colle cal cleanin | r. g tank. | | | |
| - | | | | | | (18) | OUTLET - SAC - Free flow ou | venting utside of engine | 2 FOOM | | | | | |
| | | | | | | 36) | – Flow with S | y oil piston u AC pressure to on of drain pip | sludge o | il trap or | appropria | te arrangemen | ŧ. | |
| כ | | 36 | | | | 37) | | kage oil gland to sludge tanl | | opriate tar | ık. | | | D |
| | | 37 | | | SIDE | | | 25.369.500 | e oil traf |) | 107.425.369 | | 0,001 | Approved |
| - | | SIDE | | | | | | aterial ID Material No | 1me | Dimension, Occ | Standard or Drawing | Basic Material Material Standard Q-Code XXXXX | Weight GR./NET Main Drw. | |
| - | | NEL | | | ZHAUS' | | ین بی بی ب | 04.12.2015 (B)EAAD | 087692 06.07.2 | | 88733 22.12.20 | Standard ISO; JIS | 26.08.2019 | |
| | | | 7/ Driving | | | | S Number | Drawn date Numbe Product 5-8X52 | | LEAKAGE | | te Number [10N/WASHING | Drawn date SYS. | idential |
| | | (57)- | END | | -17 | | Winterthur Gas & | | | systeme LEAKAGE | | ION/WASHING S | SYS. | RAWING - Cont |
| = | | \smile | | -(57 | 7) | | Units mm kg | NX 🗗 🗢 | Basic Material | | 1 | | ght 0,001 | ONAL DF |
| | | | | | SURFACE PROTECTION SEE GROUP O | 344 | | wwa008 W.WANG | Scale _ Design Group | Size Page A 3 | 1/2 ^{Material} | PAAD17 | 7965 | IIMENSI |
| | | | <u></u> | | TOLERANCING PRINCIPLE ISO8015 GENERAL TOLERANCES ACCORDING | TO ISO2768-m | 10.01.2013 | | 9724 | Drawing DA | AD056 | 670 F | Rev. | |

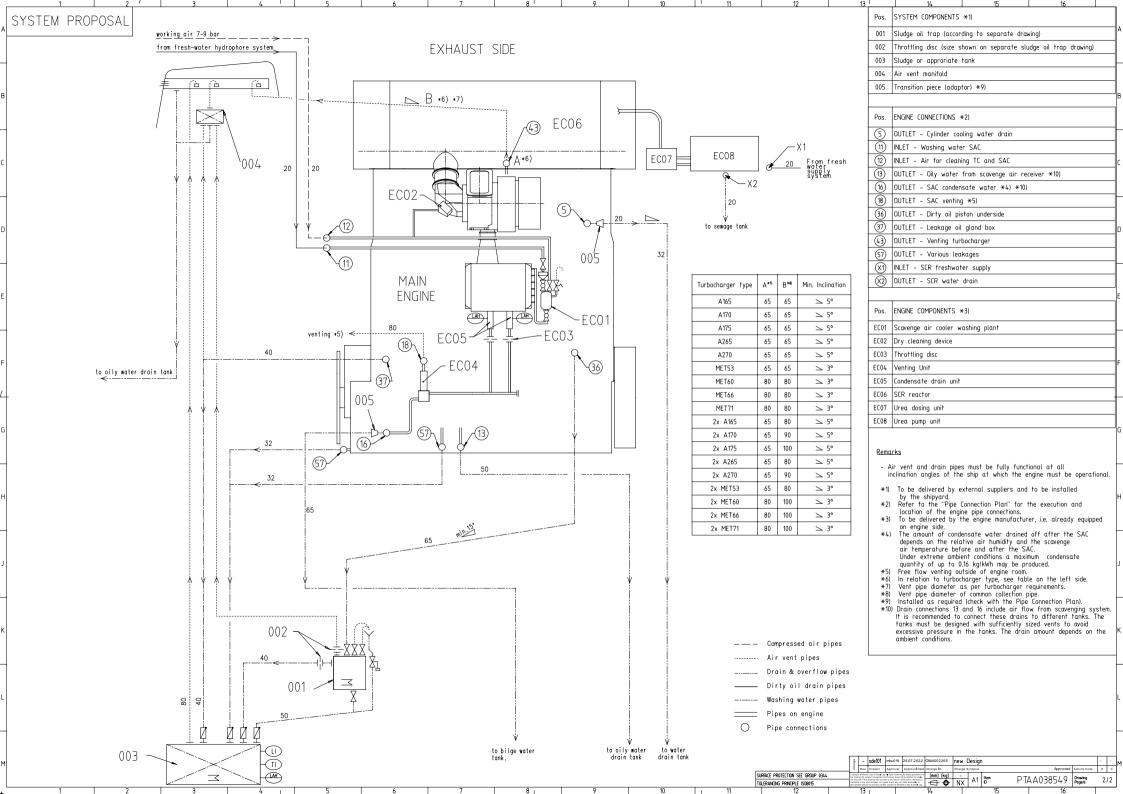
Copyright Winterthur Gas & Desel Ltd. All rights reserved By taking possession of the drawing the recipient recognizes and honours these rights. Neither the whole nor any part of this drawing may be used in any way for construction, flabrication, marketing or any other purpose nor copied in any way nor made accessible to third parties without the previous written consent of Winterthur Gas & Desel Ltd.

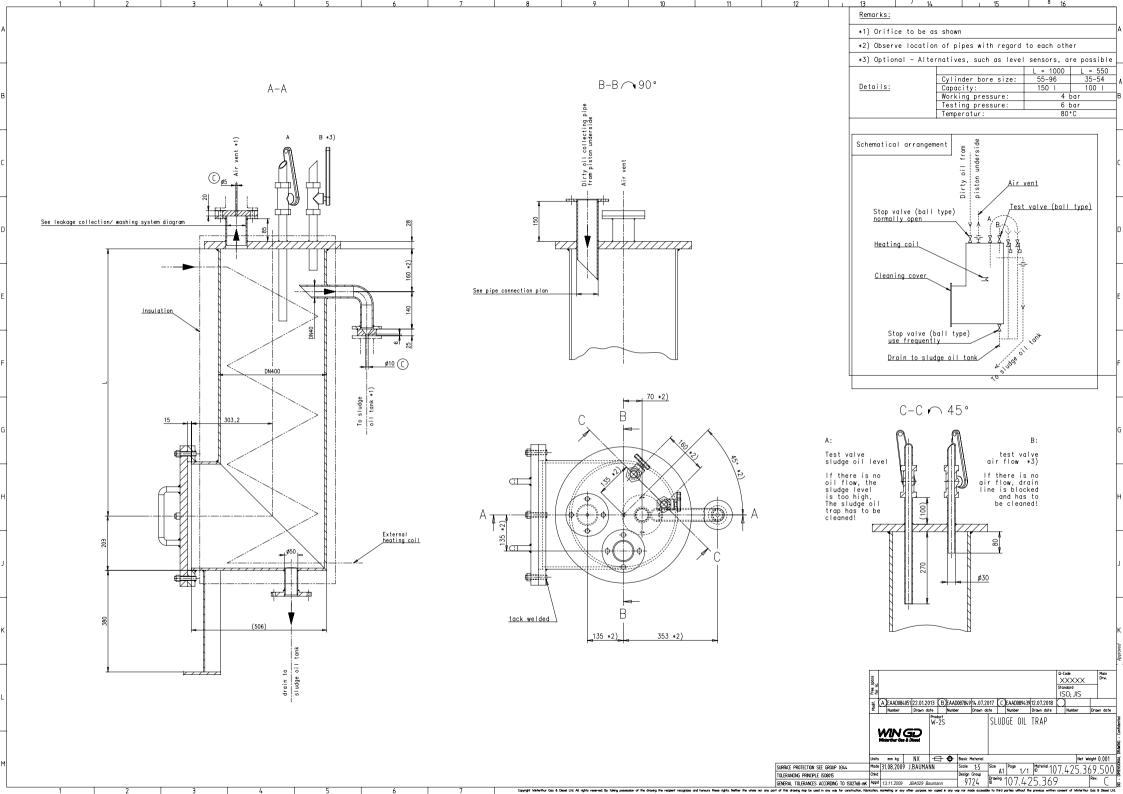


| SEQ NO | QTY | Item ID | | Item Name | | | Dimension | Standard-ID | Basic Material | | \ \ | Net Veight |
|------------------|--------------------------|-----------------------------|------------------------------------|---|--------------------|------------------|-------------------|-------------|----------------|---------------|--------|---------------|
| 001 | 1 | PTAA0 | 38549 | LEAKAGE CO | LLECTION/WASHI | NG SYS. | | | | | (|).001 |
| 001 | 1 | PTAA0 | 38549 | | | NG 515. | | | | | | 0.001 |
| Prod. | | | 5,6,7 X52 | | | | | | | | | |
| | | | | | | | <u> </u> | | 1 | | | |
| story | | | | | | | | | | | | |
| Change History | | | | | | | | | | | | |
| Ch | - : | sde101 | mhu019 | 29.07.2022 | CNAA002265 | Main Design/I | Drawing Introduce | d | | | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change Synopsis | | | | Activity Code | E | С |
| | | terthu | r Gas & | | LEAKA with iSCR | AGE C | OLLEC | TION/W | ASHIN | IG SY | ′S | - |
| Copyr | ght Win | terthur Gas | & Diesel Ltd | . All rights reserved. | Units | [m] [kg] Basic M | Naterial | | | Net Weight | 0. | 001 |
| By ta recogr | iking po nizes and | d honours t | of the docur nese rights. Ne | nent the recipient either the whole nor ed in any way for | | Yes Design | | 9724 Q-Code | XXXXX | | | /DS |
| constr copied | uction, fa I in any w | abrication, m ay nor mad | narketing or an e accessible to | y other purpose nor third parties without r Gas & Diesel Ltd. | Qty per | Engine A4 | Item ID | PTAA0 | 38558 | BOM Page/s | 0′ | 1/01 |

| SEQ NO | QTY | ltem ID | | Item Name | | | | Dimension | Standard-ID | Basic Material | | 1 | Net Veight |
|------------------|----------------------|-------------------------------|--|---|--------------------|----------|-----------|------------|-------------|----------------|---------------|----|---------------|
| 001 | 1 | 107.42 | 5.369.500 | SLUDGE OIL | TRAP | | | | | | | | 0.001 |
| | | | | | | | | | | | | | |
| Prod. | | | X52 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Change History | | | | | | | | | | | | | |
| Chang | - | sde101 | mhu019 | 29.07.2022 | CNAA002265 | new De | sign | | | | | - | - |
| | Rev. | Creator | Approver | Approval Date | Change ID | Change S | - | | | Approved | Activity Code | E | С |
| | | nterthu | r Gas & | | LEAK/ with iSCR | ٩GE | EC | OLLEC | TION/W | ASHIN | IG SY | ′S | • |
| By ta | iking p | nterthur Gas | & Diesel Ltd of the docu | . All rights reserved. nent the recipient | Units | [m] [kg] | Basic Mat | terial | | | Net Weight | 0. | 001 |
| recogi any p | nizes an art of t | nd honours t this docume | hese rights. N nt may be us | either the whole nor sed in any way for | | | Design Gr | roup | 9724 Q-Code | XXXXX | Standard | ۷ | /DS |
| constr copied | uction, I in any | fabrication, n way nor mad | narketing or ar e accessible to | y other purpose nor third parties without Ir Gas & Diesel Ltd. | Qty per | | A4 | ltem ID | PTAA0 | 38549 | BOM Page/s | 0 | 1/01 |

| | 1 2 3 | 4 | | 5 | | 6 | | 7 | | 8 | | _ |
|-----|---|--------------------------------|-----------------------|--|--|--|-------------------------------|-------------------|-----------|------------------------|-------|----------------|
| SF | PECIFICATION which must be met: | | | | | | | | | | | |
| 43 | OUTLET – Venting turbocharger – Venting to funnel – Minimum inclination according to TC suppliers specif – Must be not connected to other venting pipes. | fication | 5 | OUTLET - Gravi | – Cylinder ty flow to | · cooling wa cooling wat | ter drain. Ter drain tank | c or app | ropriate | tank. | | |
| (57 | OUTLET - Various leakages - Gravity flow to sludge tank or appropriate tank. | | | INLET - - From | Washing fresh wat | water SAC er hydrophol | re system, su | ipply pre | ssure: 2. | .5 bar | | _ |
| | | | (12) | INLET - - Work | Air for c ing air, su | leaning plan oply pressur | ts TC and SA e: 7-9 bar | AC | | | | B |
| | | ank | | OUTLET - Gravi | – Oily wo ty flow to | ter from sc oily water | avenge air re tank or appr | ceiver opriate | tank. | | | |
| | | | 16 | | | ndensate wo bilge water | ater Mank or app | ropriate | tank. | | | |
| - | | (43) | (18) | | – SAC ve flow outsi | nting de of engine | 2 FOOM | | | | |] _ |
| | | | 36 | – Flow | with SÁC | il piston ur pressure to of drain pipe | sludge oil tr | ap or a | ppropriat | e arrangemen | t. | |
| | | | (37) | | | e oil gland I sludge tank | box < or approprie | ite tank | | | | |
| C | | | | | | | | | | | | D |
| | | | -(18) | X5 | | 1 | | | | | | |
| | | 0 | -13 | | | | | | | | | - |
| Ξ | | | Change Hist | – sde101 | nhu019 29.07.202 | 2 CNAA002265 | ew Design | | | | | E |
| _ | | X | | Rev. Creator | GD | | hange Synopsis GECOLLE(| TION/ | WASHIN | Approved Activity Codd | e E C | - |
| _ | 57 | 57 | | parate B(|)M available == | Dimension | K[] Basic Material | | | Net Weight | 0.001 | - - 1) = |
| | | SURFACE PROTECTION SEE GROUP (| 0344 | t Winterthur Gas & Di possession of the dr urs these rights, Neit awing may be used ir n, marketing or any o | asel Ltd. All rights reserved wing the recipient recogni ier the whole nor any part any way for construction, ther purpose nor copied in | Main | Design Group | 9724 | | XXXX Standard | WDS | |
| | 1 2 2 | TOLERANCING PRINCIPLE ISO8015 | any way r previous | written consent of Wi | o third parties without the sterthur Gas & Diesel Ltd. | per 6 | A3 Item ID | ۲ 7 | TA A 0 38 | 5047 Page/s 8 | 1/2 | |
| | · 2 J | 4 | | ر _ا | | U | | 1 | | U | | |







MIDS - LEAKAGE-COLLECTION and WASHING-SYSTEM WinGD X52

TRACK CHANGES

| DATE | SUBJECT | DESCRIPTION |
|------------|--------------------------|------------------------------------|
| 2017-02-15 | DRAWING SET | First web upload |
| 2017-08-18 | 107.425.369 | Sludge oil trap drg – new revision |
| 2017-12-22 | DAAD056670 | System drg – new revision |
| 2018-10-01 | 107.425.369 | Sludge oil trap drg – new revision |
| 2019-09-18 | DAAD056587 DAAD056670 | Main and system drg new revision |
| 2023-01-12 | PTAA038549 PTAA038558 | Main and system drg new drawings |
| 2023-05-26 | PTAA025308 | MIDS master – new revision |

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.

Winterthur Gas & Diesel Ltd. Winterthur Gas & Diesel AG. Winterthur Gas & Diesel S.A. Schützenstrasse 3 PO Box 414, CH-8401 Winterthur, Switzerland Tel. +41 (0)52 264 8844 Fax +41 (0)52 264 8866