| А | SURFACE PROTECTION SEE GROUP 0344 | IPLE IS08015 | GENERAL TOLERANCES ACCORDING TO ISO2768-mK |
|---|-----------------------------------|-------------------------------|--|
| В | SURFACE PROTECTIC | TOLERANCING PRINCIPLE ISO8015 | GENERAL TOLERANC |

1

Available executions

| Execution | Material | Cylinder | Attribu Gas pressur | ute 1: e regulation | Attribu Gas supp | ıte 2: ly system |
|-----------|------------|----------|------------------------|------------------------|---------------------|---------------------|
| No. | IJ | No. | igpr | GVU | NG | NG+VOC |
| 1 | PAAD330586 | 6-9 | Х | | Х | |
| 2 | PAAD379639 | 6-9 | | Х | Х | |

3

2

<u>NOTE</u>

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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.

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| | Prod. | | | | | | | | | | | | | | | |
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| | History | | | | | | | | | | | | | | | |
| - | Change H | | | | | | | | | | | | | | | E |
| | Cha | _ | sde101 | mhu019 | 10.11.20 | D21 CNAA000934 | new [| Design | | | | | | - | - | |
| | | Rev. | Creator | Approver | Approval [| Date Change ID | Change S | Synopsis | | | | Approved | Activity Co | de E | С | |
| | | | | J G Gas & D | | FUEL MIDS ma | | | | Μ | | | | | | |
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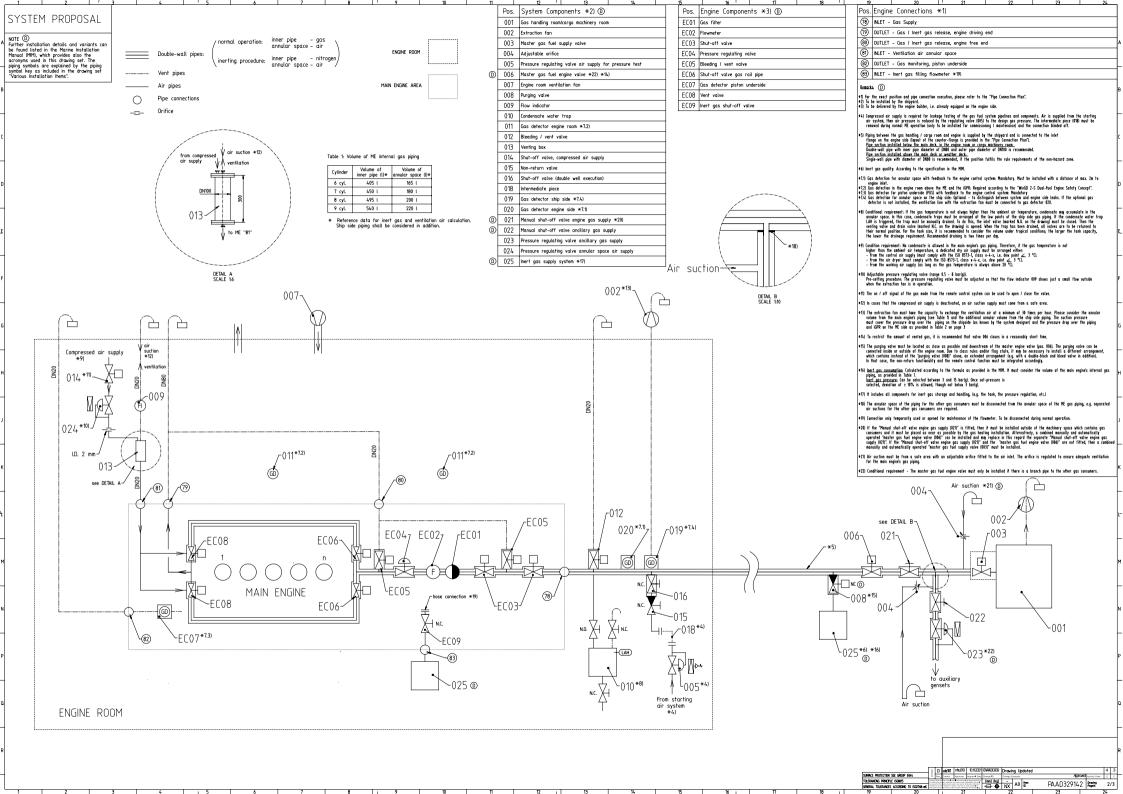
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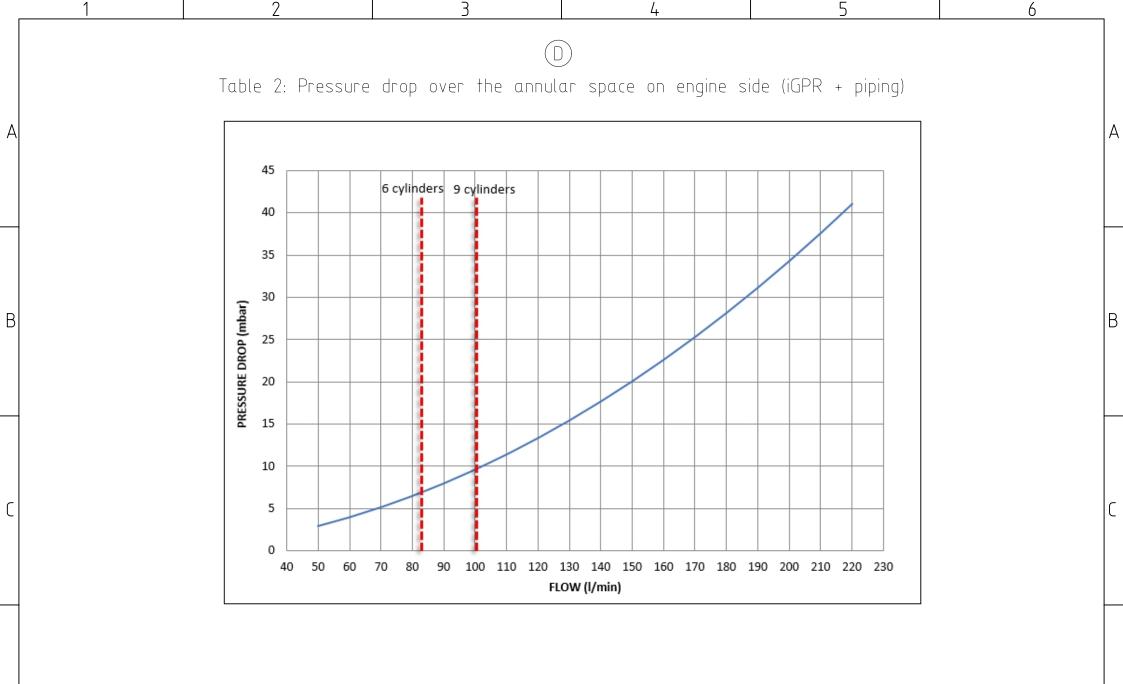
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| SEQ NO | QTY | / Item ID | | Item Name | | | | Dimension | Standard-ID | Basic Material | | | Net Weight |
|-----------------|----------------------|----------------------------|--|---|-----------------|-----------|-----------|------------------|-------------|----------------|---------------|---|---------------|
| 1 | 1 | PAAD3 | 29142 | FUEL GAS SY | STEM | | | | | | | | 0.001 |
| 2 | 1 | PAAD2 | 78947 | FLUSHING IN | STRUCTION PIPIN | IG | | | | | | | 0.001 |
| 3 | 1 | PAAD1 | 49646 | ENGINE SAFE | TY CONCEPT | | | | | | | + | 0.001 |
| | | | | | | DF EN | IGINE SA | FETY CONCEPT | | | | | 0.001 |
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| story | | | | | | | | | | | | | |
| Change History | А | sde101 | ntr.019 | | 0,4,4,000,939 | Main De | esign/Dr | awing Introduced | k | | | 4 | 3 |
| O | - Dav | dki021 | | 11.10.2019 | Change ID | - | manaia | | | Amro col | Activity Code | - | - |
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| | V | VIr | NC | 50 | FUEL | GA | S S | YSTEN | Ν | | | | |
| | | | r Gas & | | | | | | | | | | |
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| copie the pr | d in any evious v | way nor mad | le accessible to nt of Winterthu | by other purpose nor third parties without ur Gas & Diesel Ltd. | Qty per | Engine | A4 | Item ID | PAAD3 | 30586 | BOM Page/s | 0 | 1/01 |

| | | 6 7 8 9 10 11 12 |
|--|------------|--|
| SPECIFICATIONS which must be met: | | |
| OUTLET - Gas monitoring, piston underside | | INLET - Gas supply |
| 82 - Must not be connected to other venting pipes. A D - Gas release to safe area outside of the engine room. | (78) | INNER GAS PIPE |
| A D - Gas release to safe area outside of the engine room. - At the end of the vent pipe, safety devices such as flame arrestors must be installed according to | \bigcirc | <u>Gas quality:</u> According to the specification in the MIM. <u>Gas pressure</u> : Design pressure based on GTD requirement for the selected rating and selected minimum LHV plus system |
| the respective class specification and requirement. | ı | pressure drop. Operational variation via the engine control system possible. |
| (83) INLET - Inert gas filling flowmeter | , | <u>Permissible gas pressure fluctuation;</u> ± 0.6 bar (across all frequencies). <u>Mass flow</u> : According to GTD. |
| Bipe connection; Only to be used / connected for maintenance of the flowmeter. | , | <u>For the gas temperature</u> : 0 - 60°C NOTE: Regarding gas temperature vs. ventilation air temperature and methods to avoid / handle condensation in the annular |
| To be kept closed <i>i</i> blinded off during normal operation Inert gas guality: According to the specification in the MIM. | , | space, refer to the specification for connection 81 and remarks on page 2. |
| 3 | | <u>Pipe connection</u> : Inner pipe connected to the gas supply line from gas storage / handling system via flange connection (please refer to the "Pipe Connection Plan"). |
| | | Inert <u>aas supply</u> . An inert gas supply must be connected piping to the iGPR right after the master gas fuel supply |
| | | valve to enable purging of the whole system and engine piping |
| - | | l <u>nert gas quality:</u> According to the specification in the MIM. I <u>nert gas pressure:</u> Can be selected between 3 and 15 bar(g). Once set-pressure is selected, deviation of ±10% is |
| | | allowed, though not below 3 bar. |
| | | I <u>nert gas volume engine side</u> ; Provided in Table 1 on page 2. |
| • | | OUTER PIPE (annular space) – ventilation air outlet <u>Ventilation air quantity and quality:</u> Refer to the connection 81, "INLET – Ventilation air annular space". |
| | | Pipe connection. Outer pipe is connected to the annular space of the supply pipe via flange connection (please refer to the |
| | | "Pipe Connection Plan"). |
| | | Gas detection: A gas detector must be installed in the venting line, at a max. distance of 2 m from the engine inlet, and has to be placed right next to the outer pipe (annular space) connection on the side closest to the engine inlet. |
| | 1 | Interruption of the gas supply. The main gas supply line to each consumer or set of consumers must be equipped with a manually operated |
| | | stop valve and an automatically operated "master gas valve". The stop valve and the "master gas valve" can be installed either in series or can be executed as a combined manually and automatically operated valve. The valves must be located in the part of the piping, |
| | | which is situated outside of the machinery space that contains gas. |
| | (79) | OUTLET - Gas / inert gas release, engine driving end |
| | | Can be connected to the gas / inert gas release, engine free end (connection 80), but must not be connected to other venting pipes. No additional valves are allowed in the venting pipeline. |
| | | - Gas release to the safe area outside of the engine room. |
| | | At the end of the vent pipe, safety devices such as flame arrestors must be installed according to the respective class specification and requirement. |
| | | OUTLET - Gas / inert gas release, engine free end |
| | 80 | - Can be connected to the gas / inert gas release, engine driving end (connection 79), but must not be connected to other venting pipes. |
| | | - No additional valves are allowed in the venting pipeline. - Gas release to the safe area outside of the engine room. |
| | | - At the end of the vent pipe, safety devices such as flame arrestors must be installed according to the respective class specification and |
| | | requirement. INLET - Ventilation air annular space |
| | 81 | - Location and execution according to the "2-S Dual-Fuel Safety Concept" as linked in the MIM. |
| | | - The ventilation air dew point must be lower than the gas temperature. If the ambient air is not sufficiently |
| | | dry, then dry air must be supplied. Please refer to the remarks and proposals on page 2. - Sufficient ventilation air (min. 30 air exchanges per hour) must be sucked by the extraction fan from |
| - | | a safe area into the annular space of the main engine's internal and external piping. |
| | | - For the volume of the ventilation air on the engine side, refer to Table 1 on page 2. |
| | | xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx |
| | | G sde101 mhu019 26.04.2021 EAAD095579 Legacy information. See corresponding ChangeNotice 4 3 |
| | | B sde101 mhu019 04.09.2020 EAAD094556 Legacy information. See corresponding ChangeNotice 4 3 |
| | | ⁶ – dki021 mhu019 11.10.2019 – – |
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| | | WINGED FUEL GAS SYSTEM Winterthur Gas & Diesel Gas Pressure Regulation: iGPR |
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| | | Dimension Scale - |
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| SEQ NO | QTY | Item ID | | Item Name | | | | Dimension | Standard-ID | Basic Material | | | Net Weight |
|----------------|-----------------|-----------------------------|---------------------------------|---|-----------------|-----------|-----------|-----------------|-------------|----------------|---------------|---|---------------|
| 1 | 1 | PAAD3 | 69557 | FUEL GAS SY | 'STEM | | | | | | | | 0.001 |
| 2 | 1 | PAAD2 | 78947 | FLUSHING IN | STRUCTION PIPIN | IG | | | | | | | 0.001 |
| 2 | 1 | PAAD1 | 10616 | ENGINE SAFE | ETY CONCEPT | | | | | | | | 0.001 |
| 3 | 1 | PAADI | 49040 | | | DF EN | IGINE SA | AFETY CONCEPT | | | | | 0.001 |
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| Change History | А | sde101 | ntr.019 | 10.11.2021 | 0,4,4,000,939 | Main De | sign/Dr | awing Introduce | d | | | 4 | 3 |
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| | Rev. | Creator | Approver | Approval Date | Change ID | Change Sy | nopsis | | | Approved | Activity Code | E | С |
| | V | | | 50 | FUEL | GA | S S | YSTE | Μ | | | | |
| | | | r Gas & | | Gas Press | ure Re | gulat | tion: GVU | | | | | |
| <u> </u> | | Rill C | Of Materia | al | Dimension | | • | | | | | | |
| Copyr Bv t | ight Wir | nterthur Gas | s & Diesel Ltd | All rights reserved. ment the recipient | Unite | [m] [kg] | Basic Mat | terial | | | Net Weight | 0 | .002 |
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|---|-----|----------------------|---|------|---|-------------|---------------------------|---|--|------------------------------|------------------------------------|--|-------------------------|-------------------|
| | | | | | | SPE | CIFICATIONS | S requirements fo | or ENGINE connections | | | | | |
| | | | | | | (78) (A) | INNE Gas Gas Mas | <u>pressure</u> : Contro <u>s flow</u> : According | | | | | | A |
| | | | | | | | NOTI cond Pipe | lensation in the c <u>connection</u> : Inner | <u>ture:</u> 0 – 60°C temperature vs. ventil annular space, refer to pipe connected to the "'Pipe Connection Plan' | the specifico gas supply | ation for conne | ction 81 and remo | irks on po | 1ge 3. |
| | | | | (81) | | | <u>Vent</u> Pipe | tilation air quanti connection: Outer | space) – ventilation ai ity and quality: Refer r pipe is connected to "'Pipe Connection Plan" | to the connec the annular | tion 81, ''INLET space of the s | - Ventilation air supply pipe via flo | annular s Inge conne | space". action |
| | 82 | | | (79) | | | | detection: A gas the engine inlet c | s detector must be inst onnection. | alled in the | double wall pip | e with a distance | e of max. | 2 m – |
| | | $\mathbf{\tilde{s}}$ | | | | (70) | OUTLE | ET – Gas / inert | gas release, engine dr | riving end | | | | C |
| | | | | (80) | | (79) | not | t be connected to | o the gas / inert gas o other venting pipes. | - | | nnection 80), but | must | |
| | | | | (70) | | A | - Gas | s release to the | s are allowed in the ve safe area outside of | the engine ro | om. | | | |
| | | | 0 | 10 | | | | | vent pipe, safety devic ecification and requirem | | lame arrestors | must be installe | d accordin <u>o</u> | g to the |
| | | | | | | | OUTLE | ET – Gas / inert | gas release, engine fr | ee end | | | | D |
| | | | | | | | – Car not | n be connected to t be connected to | o the gas / inert gas o other venting pipes. | release, engir | ne driving end | connection 79), bu | t must | |
| | |) | | | | A | - Gas | s release to the | s are allowed in the ve safe area outside of | the engine ro | oom. | | | |
| | | | | | | | | | vent pipe, safety devic ecification and requirem | | lame arrestors | must be installe | d according | g to the |
| | | / | | | | (81) | INLET | - Ventilation air | annular space | | | | | F |
| | | / | | | | | – The | e ventilation air (| ion according to the "2 dew point must be low | | | | | + |
| | | | | | | A | dry | fficiently /, then dry air m | ust be supplied. Please | e refer to the | e remarks and | proposals on pag | је З. | |
| | | | | | | | a | safe area into tl | n air (min. 30 air excha he annular space of th | ne main engin | e's internal and | d external piping. | ction fan | from |
| | | | | | | | - For - For | the volume of t the volume of t | the ventilation air on t the ventilation air on t | he GVU side: | e: Refer to Tabl Refer to Tabl | ble 2 on page 3. e 1 on page 2. | | |
| | | | | | | (82) | | | ing, piston underside | | | | | |
| | | | | | | | - Gas | s release to safe | ted to other venting pi e area outside of the | engine room | | and he installed | | |
| | | | | | | A | | | vent pipe, safety devic acification and requirem | | | | | g to the |
| | | | | | | | | | x82DF-2.0 | | | | | |
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| | | | | | | | | | | | GAS SYSTE | | | |
| | | | | | | | | | WIN GD Winterthur Gas & Diesel | with GVU | | | | |
| | | | | | | | | | Scale _ 🕂 🕀 N | Dimension X Units [mm] [] | K[] Basic Material | | Net Weigh | H nt 0.001 |
| | | | | | | TOL | | N SEE GROUP 0344 | Copyright Winterthur Gas & Diesel Ltd. All rights reserved By taking possession of the drawing the recipient recog and honours these rights. Neither the whole nor any pa of this drawing may be used in any way for construction | nizes Main Design | Design Group | 9727 Q-Code XXX | | |
| 1 | 2 | <u>ح</u> ا | 1 | . E | 4 | GENE | ERAL TOLERANCE | ES ACCORDING TO ISO2768-mK | or mis drawing may be used in any way for construction fabrication, marketing or any other purpose nor copied any way nor made accessible to third parties mithout th previous written consent of Winterthur Gas & Diesel Lts | , Qty e per | A2 Item ID | PAAD3695 | 57 Drawing Page/s | 1/4 |
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| D1 A | The ventilation air The annular space A1) is vented The GVU enclosure The air is release | <u>procedure:</u> ire vented with air, and in is sucked from a safe are of the piping between the | ea air suction (on outlet (cor | connection and the | | | INLET - Gas / ventilation air to the GVU INNER GAS PIPE <u>Gas quality</u> : According to the specification in the MIM. <u>Gas pressure</u> : The design pressure is based on the GTD output, which is determined by the selected rating, the minimum LHV, and the system pressure drop. Operational variation via the engine control system is possible. <u>Permissible gas pressure fluctuation</u> : ± 0.6 bar(g) (across all frequencies). <u>Mass flow</u> : According to the GTD. <u>Gas temperature</u> : Aligned with the specification on page 1. <u>Pipe connection</u> : Inner pipe is connected to the gas supply line from gas storage / handling |
|-----------|---|---|---|---|---|---------------|--|
| D2 (Å) | connection and GVU i ventilation outlet (cor <u>Pipe connection</u> : Conne air and to release it | ' a safe area - The annular nlet (connection A1) - the (| GVU enclosur with an extr m. The ventil | e / room – air rel action fan to suck ation fan suction | ease via GVU air the ventilation capacity must be | Â | System via flange connection (please refer to the "Pipe Connection Plan"). OUTER PIPE (annular space) - ventilation air inlet Location and execution according to the "2-S Dual-Fuel Safety Concept" as linked in the MIM. The ventilation air dew point must be lower than the gas temperature. Sufficient ventilation air (min. requirement of 30 air exchanges per hour) must be sucked by t extraction fan from a safe area into the annular space of the main engine's internal and external piping. <u>Pipe connection</u>: The outer pipe is connected to the annular space of the supply pipe via the flange or the welding connection. |
| 2) (E | 32) D1 | Cylinder Number | | GVU INNER PIPE VOLUME | GVU ENCLOSURE VOLUME | B1 (Å) | OUTLET - Gas / ventilation air to the engine INNER GAS PIPE <u>Gas pressure</u> : Adjusted by the GVU gas pressure regulating valve according to engine demand. <u>Pipe connection</u> : Inner pipe is connected to the gas supply line either via a welding or a flange connection. OUTER PIPE (annular space) <u>Pipe connection</u> : Outer pipe is connected to the annular space of the gas supply line either via a welding or a flange connection. The connection pipe to the engine must be kept as short as |
| | | 6 cylinder 7 cylinder 8 cylinder | DN100 DN125 | 57.8 l 110.2 l | 2270 l 2200 l | | possible and never longer than 30 m. |
| | GVU | | | 110.2 l 110.2 l values to be used nd ventilation air | | B2 (Å) | INLET - Inert gas Inerting procedure: The following areas are vented with inert gas, and in the following order: 1) The GVU inert gas inlet (connection B2) and the GVU inert gas outlet (connection B1) 3) The piping between the GVU outlet (connection B1) and the gas / inert gas release on the engine. Inert gas quality: According to the specification in the MIM. Inert gas pressure: Can be selected between 3 - 14 bar(g). Once the set-pressure is selected, deviation of ± 10% is allowed. Inert gas consumption: According to guidance in the MIM. Pipe connection: Connected to the inert gas supply system. |
| | | Schematic outline view of the the GVU-ED t For detailed dimension of the GVU please re the GVU supplier layo Other designs are po e.g. GVU-OD type. | ype. ns efer to put drawing. | | | | |
| / | | | | | | SURFACE PROTI | Sector A sde101 Imhu09 D112021 Outcomes Main Design/Drawing Introduced CTION SEE GROUP 0344 5 Fex. Creator Approved Approved Approved Activity Code RINCIPLE ISO805 Sector Sector Sector Sector Ferror Creator Approved Activity Code Autress Arronound Sector Sector Sector Sector Ferror Ferror Autress Arronound Sector Sector Sector Sector Ferror Ferror |

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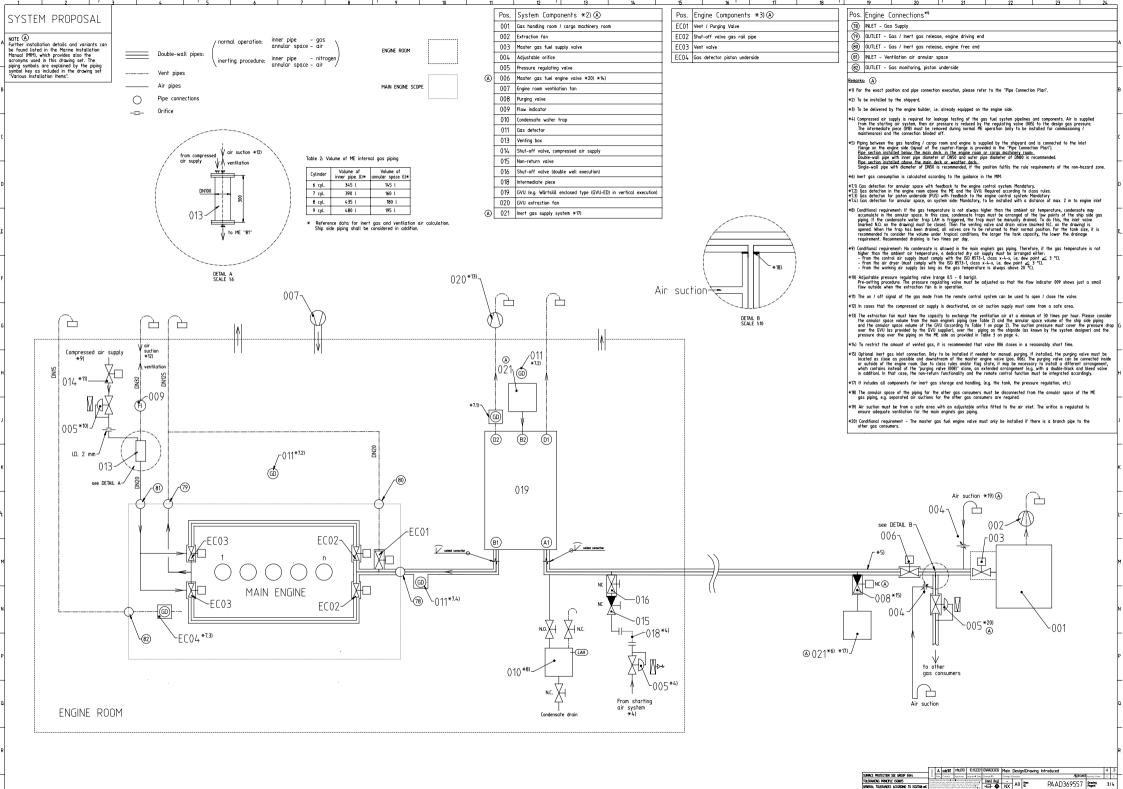
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TOLERANCES ACCORDING TO ISO2768-INK

| 1 | 2 | 3 | 4 | 5 | 6 |
|---|------------------------------|-----------------------|--------------------------------------|--------------------|---|
| | 14 12 10 8 8 | S: Pressure drop over | A) the annular space on | engine side | |
| | A 4 2 0 40 50 60 | | 130 140 150 160 170 18 DW (I/min) | 30 190 200 210 220 | |

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| | ange | 4 sde101 | mhu019 | 10.11.2021 | CNAA000939 | Main Desigi | n/Drawing Introd | uced | | 4 | 3 |
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| SURFACE PROTECTION SEE GROUP 0344 | Ϋ́ R | ev. Creator | Approver | Approval Date | Change ID | Change Synopsis | | Approved | Activity Code | E | С |
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| CENEDAL TOLEDANCES ACCODDING TO ISO2749 | marketing or a | any other purpose nor co without the previous writte | opied in any way nor | construction, fabrication, r made accessible to erthur Gas & Diesel Ltd. | | NX A4 | lid M | 4AU30733/ | Page/s | 47 | / 4 |
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MIDS - WinGD X82DF-1.0 – FUEL-GAS-SYSTEM (DG DG9727)

TRACK CHANGES

| DATE | SUBJECT | DESCRIPTION |
|------------|--|---------------------------------|
| 2019-10-11 | DRAWING SET | First web upload |
| 2020-08-19 | DAAD117115 | System drg – new revision |
| 2020-09-08 | DAAD117115 | System drg – new revision |
| 2021-04-13 | DAAD137411 DAAD142515 | Main and system drgs – new drgs |
| 2021-04-27 | DAAD117115 | System drg – new revision |
| 2021-12-06 | PAAD330586 PAAD329142 PAAD379639 PAAD369557 | Main and system drgs – new drgs |

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