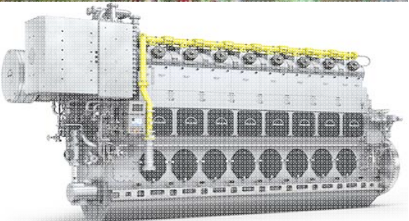
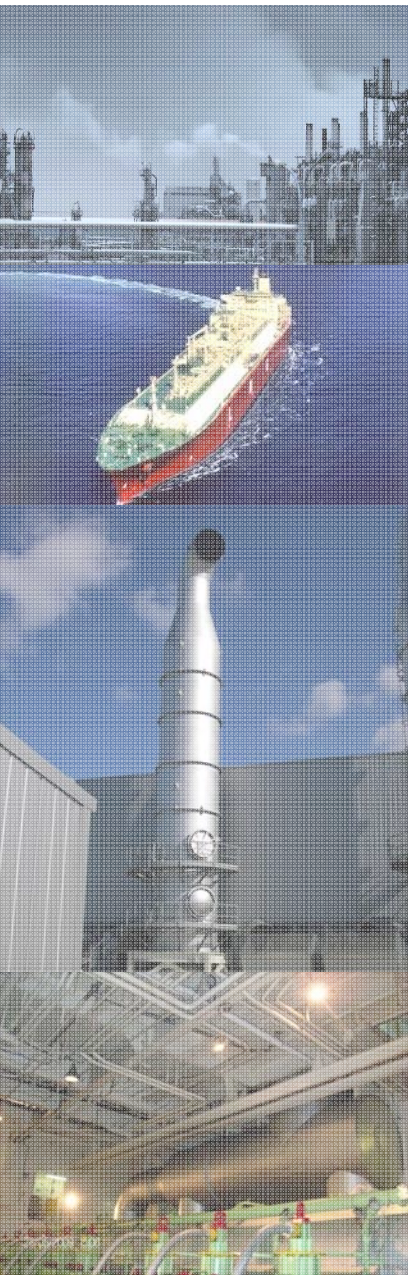


# EXPLOSION VENTING DEVICES FOR EXHAUST GAS SYSTEM REFERENCE LIST



# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer                                              | Model | Material               | Q'ty | Del'y | Project name                            |
|-----|-------------------------------------------------------|-------|------------------------|------|-------|-----------------------------------------|
| 1   | Wartsila Hyundai Engine Co., Ltd.                     | KSRO  | 304/GRA'/304           | 10   | 2008  | 50DF Engine Project                     |
| 2   | Wartsila Hyundai Engine Co., Ltd.                     | KSRO  | 304/GRA'/304           | 4    | 2008  | 50DF Engine Project                     |
| 3   | Wartsila Hyundai Engine Co., Ltd.                     | KSRRC | 304/PFA+C.W1300/304    | 2    | 2008  | 50DF Engine Project                     |
| 4   | Wartsila Hyundai Engine Co., Ltd.                     | KSRRC | 304/PFA+C.W1300/304    | 4    | 2009  | 50DF Engine Project                     |
| 5   | Wartsila Hyundai Engine Co., Ltd.                     | KSRRC | 304/PFA+C.W1300/304    | 6    | 2009  | 50DF Engine Project                     |
| 6   | GNC Energy Co., Ltd.<br>(Wartsila Engine Power Plant) | KSRRC | 316L/PFA+C.W1300/304   | 7    | 2009  | CHEONAN CHEONGSOO<br>Group energy       |
| 7   | STX E&C Co., Ltd.                                     | KSRRC | 316L/PFA+C.W1300/304   | 4    | 2009  | Stx Engine-DF ENGINE PLANT<br>Project   |
| 8   | Doosan Heavy I&C Co., Ltd.                            | KSRPR | 316/PFA+C.W1300/316    | 12   | 2009  | Hsinta Project<br>(THAIWAN POWER PLANT) |
| 9   | LG Chemical Ltd.                                      | KSRRC | 316L/PFA+C.W1300/316L  | 2    | 2010  | LAMI(VCM) Project                       |
| 10  | KC Cottrell                                           | KSRPS | 316/TEF/316            | 24   | 2010  | Hyundai<br>- Thermoelectric Power Plant |
| 11  | Doosan Heavy I&C Co., Ltd.                            | KSRPR | 316/PFA+C.W1300/316    | 12   | 2010  | Hsinta Project<br>(THAIWAN POWER PLANT) |
| 12  | OCI Co., Ltd.(Kwangyang fac.)                         | KSRPR | 316L/TEF+C.W#1300/316L | 2    | 2011  | Kwangyang Cogeneration<br>Power plant   |
| 13  | Doosan Heavy I&C Co., Ltd.                            | KSRPR | 316/TEF+C.W#1300/316   | 12   | 2011  | Hsinta Project<br>(THAIWAN POWER PLANT) |
| 14  | Doosan Heavy I&C Co., Ltd.                            | KSRPS | 316/TEF+C.W/316        | 12   | 2012  | Indonesia-CIREBON TPP                   |
| 15  | Doosan Heavy I&C Co., Ltd.                            | KSRPS | 316/TEF+C.W/316        | 12   | 2012  | India-MUNDRA UMPP                       |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer                                              | Model | Material         | Q'ty | Del'y | Project name                        |
|-----|-------------------------------------------------------|-------|------------------|------|-------|-------------------------------------|
| 16  | Wartsilla Hyundai Engin Co., Ltd.                     | KSRRC | 316L/PFA/CER/304 | 5    | 2012  | WHEC No.3 Test Cell Building<br>PJT |
| 17  | Doosan Heavy I&C Co., Ltd.                            | KSRPS | 316/TEF+C.W/316  | 12   | 2012  | Indonesia-CIREBON TPP               |
| 18  | Doosan Heavy I&C Co., Ltd.                            | KSRPS | 316/TEF+C.W/316  | 2    | 2012  | India-MUNDRA UMPP                   |
| 19  | Doosan Heavy I&C Co., Ltd.                            | KSRPS | 316/TEF+C.W/316  | 14   | 2012  | Indonesia-CIREBON TPP               |
| 20  | CB Enterprise                                         | KSRPS | 316/TEF+C.W/316  | 10   | 2012  | Indonesia-CIREBON TPP               |
| 21  | CB Enterprise                                         | KSRPS | 316/TEF+C.W/316  | 8    | 2013  | Indonesia-CIREBON TPP               |
| 22  | HHI                                                   | KSRRC | 316L/TEF+CW/316L | 10   | 2013  | Middle Engine Plant                 |
| 23  | CB Enterprise                                         | KSRPS | 316/TEF+C.W/316  | 13   | 2014  | Indonesia-CIREBON TPP               |
| 24  | AERIX Co., Ltd.                                       | KSRPS | 316/TEF/316 & HS | 14   | 2014  | Takreer-CBDC Project                |
| 25  | CB Enterprise                                         | KSRPS | 316/TEF+C.W/316  | 13   | 2014  | Indonesia-CIREBON TPP               |
| 26  | HHI                                                   | KSRRC | 316L/TEF+CW/316L | 6    | 2014  | Middle Engine Plant                 |
| 27  | GNC Energy Co., Ltd.<br>(Wartsila Engine Power Plant) | KSRRC | 316L/TEF+CW/316L | 2    | 2015  | CHEONAN CHEONGSOO<br>Group energy   |
| 28  | Doosan Engine                                         | KSRPR | 316L/TEF+CW/316L | 8    | 2015  | WCH 2stroke DF ENGINE<br>Project    |
| 29  | HHI (HIMSEN ENGNE)                                    | KSRPR | 316L/TEF+CW/304  | 16   | 2015  | H2733                               |
| 30  | HHI (HIMSEN ENGINE)                                   | KSRPR | 316L/TEF+CW/304  | 16   | 2015  | H2734                               |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer                | Model | Material         | Q'ty | Del'y | Project name            |
|-----|-------------------------|-------|------------------|------|-------|-------------------------|
| 31  | STX Engine              | KSRPR | 316L/TEF+CW/304  | 3    | 2015  | Engine Test Bed Project |
| 32  | DSME (HIMSEN ENGINE)    | KSRRC | 316L/TEF+CW/304L | 12   | 2016  | DW2449                  |
| 33  | DSME (HIMSEN ENGINE)    | KSRPR | 316L/TEF+CW/304  | 12   | 2016  | DW2450                  |
| 34  | DSME (HIMSEN ENGINE)    | KSRPR | 316L/TEF+CW/304  | 12   | 2016  | DW2451                  |
| 35  | DSME (HIMSEN ENGINE)    | KSRPR | 316L/TEF+CW/304  | 12   | 2016  | DW2452                  |
| 36  | HHI(WINGD W5X72DF)      | KSRPR | 316L/TEF+CW/304  | 12   | 2016  | H2800                   |
| 37  | HHI(WINGD W5X72DF)      | KSRPR | 316L/TEF+CW/304  | 12   | 2016  | H2801                   |
| 38  | SHI(WINGD W6X62DF)      | KSRPR | 316L/TEF+CW/304  | 8    | 2017  | SN2148                  |
| 39  | SHI(WINGD W6X62DF)      | KSRPR | 316L/TEF+CW/304  | 8    | 2017  | SN2149                  |
| 40  | SHI(WINGD W6X62DF)      | KSRPR | 316L/TEF+CW/304  | 8    | 2017  | SN2150                  |
| 41  | DSME(WINGD W5X72DF)/HHI | KSRPR | 316L/TEF+CW/304  | 6    | 2017  | DW2462                  |
| 42  | HHI(HIMSEN H35DF)       | KSRRC | 316L/TEF+CW/304L | 12   | 2017  | H2937                   |
| 43  | HHI(HIMSEN H35DF)       | KSRRC | 316L/TEF+CW/304L | 12   | 2017  | H2938                   |
| 44  | SHI(HIMSEN H35DF)/HHI   | KSRRC | 316L/TEF+CW/304L | 12   | 2017  | SH856                   |
| 45  | SHI(HIMSEN H35DF)/HHI   | KSRRC | 316L/TEF+CW/304L | 12   | 2017  | SH857                   |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name                          |
|-----|---------------------|-------|-----------------|------|-------|---------------------------------------|
| 46  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2017  | SH856                                 |
| 47  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2017  | SH857                                 |
| 48  | HHI [POWER PLANT]   | KSRPR | 316L/TEF+CW/304 | 24   | 2017  | TERMONORTE 93MW DUAL FUEL POWER PLANT |
| 49  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | H2963                                 |
| 50  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | H2964                                 |
| 51  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 6    | 2018  | NIAS PROJECT                          |
| 52  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 3    | 2018  | P3 PROJECT –PLTMG TANJUNG SELOR       |
| 53  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 3    | 2018  | P3 PROJECT -PLTMG BIAK                |
| 54  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 3    | 2018  | P3 PROJECT –PLTMG MERAUKE             |
| 55  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 3    | 2018  | P3 PROJECT –PLTMG LANGGUR             |
| 56  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 3    | 2018  | P3 PROJECT –PLTMG SERAM PEAKER        |
| 57  | TSP [MAN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 3    | 2018  | BAENGNYEONGDOPROJECT                  |
| 58  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | SN2233                                |
| 59  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | SN2234                                |
| 60  | HHI                 | KSRPR | 316L/TEF+CW/304 | 15   | 2018  | X72DF TEST BED                        |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|-------|-----------------|------|-------|--------------|
| 61  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | H3020        |
| 62  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | H3021        |
| 63  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | H3022        |
| 64  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 6    | 2018  | SN2236       |
| 65  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 6    | 2018  | SN2237       |
| 66  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | SH8006       |
| 67  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2018  | KSRE1801     |
| 68  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 4    | 2018  | SN2241       |
| 69  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 4    | 2018  | SN2242       |
| 70  | LG Chemical Ltd.    | KSEVP | 304SS           | 1    | 2018  | -            |
| 71  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2019  | SN2271       |
| 72  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2019  | SN2275       |
| 73  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2019  | SN2276       |
| 74  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2019  | H3086        |
| 75  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2019  | SH8007       |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material         | Q'ty | Del'y | Project name        |
|-----|---------------------|-------|------------------|------|-------|---------------------|
| 76  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | H3037               |
| 77  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SH990               |
| 78  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SN2300              |
| 79  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SN2301              |
| 80  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | H3096               |
| 81  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | H3105               |
| 82  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SH8029              |
| 83  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SN2297              |
| 84  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SN2298              |
| 85  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SH8008              |
| 86  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304  | 12   | 2019  | SH8039              |
| 87  | HHI                 | KSRRC | 316L/TEF+CW/316L | 18   | 2019  | Middle Engine Plant |
| 88  | HHI                 | KSRRC | 316L/TEF+CW/316L | 4    | 2019  | Middle Engine Plant |
| 89  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304  | 6    | 2019  | SN2256              |
| 90  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304  | 6    | 2019  | SN2257              |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name  |
|-----|---------------------|-------|-----------------|------|-------|---------------|
| 90  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 6    | 2019  | SN2271        |
| 91  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 6    | 2019  | SN2275        |
| 92  | SHI (WINGD ENGINE)  | KSRPR | 316L/TEF+CW/304 | 6    | 2019  | SN2276        |
| 93  | SHI (HSD ENGINE)    | KSRPR | 316L/TEF+CW/304 | 6    | 2019  | SN2300        |
| 94  | SHI (HSD ENGINE)    | KSRPR | 316L/TEF+CW/304 | 6    | 2019  | SN2301        |
| 95  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2019  | H2621         |
| 96  | HHI [HIMSEN ENGINE] | KSEVP | 304SS           | 2    | 2019  | Eco Test shop |
| 97  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3106         |
| 98  | DSME (HSD ENGINE)   | KSRPR | 316L/TEF+CW/304 | 6    | 2020  | DW2498        |
| 99  | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SN2302        |
| 100 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2020  | SN2304        |
| 101 | DSME (HSD ENGINE)   | KSRPR | 316L/TEF+CW/304 | 6    | 2020  | DW2499        |
| 102 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3038         |
| 103 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3126         |
| 104 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH991         |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|-------|-----------------|------|-------|--------------|
| 105 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | SH8034       |
| 106 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3112        |
| 107 | SHI (HSD ENGINE)    | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2311       |
| 108 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH8030       |
| 109 | SHI (HSD ENGINE)    | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2310       |
| 110 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3039        |
| 111 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | SH8035       |
| 112 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SN2313       |
| 113 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2308       |
| 114 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2305       |
| 115 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | 0311128      |
| 116 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3107        |
| 117 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SN2314       |
| 118 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH8031       |
| 119 | DSME (HSD ENGINE)   | KSRPR | 316L/TEF+CW/304 | 6    | 2020  | DW2505       |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|-------|-----------------|------|-------|--------------|
| 120 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH8040       |
| 121 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2312       |
| 122 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2306       |
| 123 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH992        |
| 124 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | HMD2741      |
| 125 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | HMD2742      |
| 126 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2355       |
| 127 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3108        |
| 128 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH8032       |
| 129 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2336       |
| 130 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | HMD2743      |
| 131 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2307       |
| 132 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3109        |
| 133 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | SH8025       |
| 134 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 4    | 2020  | DH-2001      |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name   |
|-----|---------------------|-------|-----------------|------|-------|----------------|
| 135 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2020  | SN2332         |
| 136 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2020  | HMD2744        |
| 137 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2020  | DS116          |
| 138 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3110          |
| 139 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H3162          |
| 140 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2020  | H2939          |
| 141 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3137          |
| 142 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3163          |
| 143 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3157          |
| 144 | HGS[HIMSEN ENGINE]  | KSRPR | 316L/TEF+CW/304 | 8    | 2021  | H2714 Retrofit |
| 145 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2021  | SN2337         |
| 146 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3164          |
| 147 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | SWS H1531      |
| 148 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2021  | YD19-007       |
| 149 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SH993          |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer               | Model | Material        | Q'ty | Del'y | Project name |
|-----|------------------------|-------|-----------------|------|-------|--------------|
| 150 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | HMD8298      |
| 151 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 8    | 2021  | SH8091       |
| 152 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | 0311127      |
| 153 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SWS H1532    |
| 154 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SH8026       |
| 155 | STX Engine[MAN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | H2509        |
| 156 | STX Engine[MAN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | H2510        |
| 157 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | SH8038       |
| 158 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | 19121019     |
| 159 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3138        |
| 160 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SH994        |
| 161 | EKHI[HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 2    | 2021  | EK-010       |
| 162 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SH8033       |
| 163 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | SH8037       |
| 164 | HHI [HIMSEN ENGINE]    | KSRPR | 316L/TEF+CW/304 | 10   | 2021  | SH8092       |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|-------|-----------------|------|-------|--------------|
| 165 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | 19121020     |
| 166 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 4    | 2021  | DH-2101      |
| 167 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SH2939       |
| 168 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | H3186        |
| 169 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | SH8093       |
| 170 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | H3185        |
| 171 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SH995        |
| 172 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SN2364       |
| 173 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | SN2426       |
| 174 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SN2364       |
| 175 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | SH8094       |
| 176 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | H3187        |
| 177 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | SN2365       |
| 178 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 18   | 2021  | SN2319       |
| 179 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3178        |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|-------|-----------------|------|-------|--------------|
| 180 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2021  | H3179        |
| 181 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2021  | H3188        |
| 182 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2021  | SKSB271      |
| 183 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2022  | H3243        |
| 184 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2022  | HMD8310      |
| 185 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120826      |
| 186 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3165        |
| 187 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3111        |
| 188 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120827      |
| 189 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120828      |
| 190 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120847      |
| 191 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3180        |
| 192 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3166        |
| 193 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | SH8105       |
| 194 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3181        |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|-------|-----------------|------|-------|--------------|
| 195 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | 2308         |
| 196 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120831      |
| 197 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 10   | 2022  | SN2459       |
| 198 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3182        |
| 199 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3183        |
| 200 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120845      |
| 201 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 6    | 2022  | 3261         |
| 202 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | SN2460       |
| 203 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | H3244        |
| 204 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | SN2461       |
| 205 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 10   | 2022  | HMD8300      |
| 206 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 4    | 2022  | SWN-0277     |
| 207 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | H3189        |
| 208 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 12   | 2022  | H3264        |
| 209 | HHI [HIMSEN ENGINE] | KSRPR | 316L/TEF+CW/304 | 9    | 2022  | 0120846      |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model          | Material        | Q'ty | Del'y | Project name |
|-----|---------------------|----------------|-----------------|------|-------|--------------|
| 210 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 6    | 2022  | MRS-106      |
| 211 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | H3265        |
| 212 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | SH8147       |
| 213 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | SH8148       |
| 214 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | H3190        |
| 215 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | H8060        |
| 216 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | HMD8299      |
| 217 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | H8101        |
| 218 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | 0120832      |
| 219 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | SH8120       |
| 220 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | H3191        |
| 221 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | SN2315       |
| 222 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 6    | 2022  | MRS-107      |
| 223 | HHI [HIMSEN ENGINE] | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | SN2579       |
| 224 | HHI [HIMSEN ENGINE] | KSRPR<br>KSEVP | 316L/TEF+CW/304 | 12   | 2022  | H3290        |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer                           | Model          | Material        | Q'ty | Del'y | Project name |
|-----|------------------------------------|----------------|-----------------|------|-------|--------------|
| 225 | SHI (WINGD ENGINE & HIMSEN ENGINE) | KSRPR          | 316L/TEF+CW/304 | 18   | 2022  | SN2582       |
| 226 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | SH8061       |
| 227 | HHI [HIMSEN ENGINE]                | KSRPR<br>KSEVP | 316L/TEF+CW/304 | 12   | 2022  | H3291        |
| 228 | HHI [HIMSEN ENGINE]                | KSRPR<br>KSEVP | 316L/TEF+CW/304 | 12   | 2022  | H3292        |
| 229 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 9    | 2022  | SH8149       |
| 230 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 12   | 2022  | H3266        |
| 231 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 9    | 2023  | H3198        |
| 232 | HHI [HIMSEN ENGINE]                | KSRPR<br>KSEVP | 316L/TEF+CW/304 | 9    | 2023  | HMD8370      |
| 233 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 15   | 2023  | SH8150       |
| 234 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 9    | 2023  | SH8121       |
| 235 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 9    | 2023  | DW2521       |
| 236 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 9    | 2023  | SH8139       |
| 237 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 9    | 2023  | SH8107       |
| 238 | SHI (WINGD ENGINE & HIMSEN ENGINE) | KSRPR          | 316L/TEF+CW/304 | 18   | 2023  | SN2583       |
| 239 | HHI [HIMSEN ENGINE]                | KSRPR          | 316L/TEF+CW/304 | 12   | 2023  | H3267        |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer                           | Model | Material        | Q'ty | Del'y | Project name |
|-----|------------------------------------|-------|-----------------|------|-------|--------------|
| 240 | SHI (WINGD ENGINE & HIMSEN ENGINE) | KSRPR | 316L/TEF+CW/304 | 12   | 2023  | H3315        |
| 241 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 12   | 2023  | H3316        |
| 242 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 6    | 2023  | MRS-108      |
| 243 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 9    | 2023  | SH8106       |
| 244 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 15   | 2023  | H3274        |
| 245 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 6    | 2023  | H3330        |
| 246 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 15   | 2023  | SH8151       |
| 247 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 12   | 2023  | SN2584       |
| 248 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 12   | 2023  | SH8140       |
| 249 | HGS[HIMSEN ENGINE]                 | KSRPR | 316L/TEF+CW/304 | 8    | 2023  | APSI029      |
| 250 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 15   | 2023  | H3275        |
| 251 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 12   | 2023  | SN2585       |
| 252 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 8    | 2023  | DW2523       |
| 253 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 12   | 2023  | H3341        |
| 254 | HHI [HIMSEN ENGINE]                | KSRPR | 316L/TEF+CW/304 | 6    | 2023  | DW2522       |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer               | Model           | Material        | Q'ty | Del'y | Project name |
|-----|------------------------|-----------------|-----------------|------|-------|--------------|
| 255 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | DW2524       |
| 256 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2023  | DH-2201      |
| 257 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2023  | H3331        |
| 258 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2023  | DW2532       |
| 259 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 6    | 2023  | HMD4215      |
| 260 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2023  | 0120848      |
| 261 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2023  | H3295        |
| 262 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 6    | 2023  | HMD4216      |
| 263 | STX Engine[MAN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | S1061        |
| 264 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 12   | 2023  | H3342        |
| 265 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2023  | H3332        |
| 266 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2023  | 0120849      |
| 267 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | DW2526       |
| 268 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 6    | 2023  | HMD4218      |
| 269 | STX Engine[MAN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | S1062        |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer                           | Model           | Material        | Q'ty | Del'y | Project name |
|-----|------------------------------------|-----------------|-----------------|------|-------|--------------|
| 270 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 12   | 2023  | SN2579       |
| 271 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 12   | 2023  | H3292        |
| 272 | STX Engine[MAN ENGINE]             | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | SF210301     |
| 273 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 10   | 2023  | H3275        |
| 274 | SHI (WINGD ENGINE & HIMSEN ENGINE) | KSRPR           | 316L/TEF+CW/304 | 18   | 2023  | SN2604       |
| 275 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 9    | 2023  | 0120849      |
| 276 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | DW2526       |
| 277 | HHI [HIMSEN ENGINE]                | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 6    | 2023  | HMD4218      |
| 278 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 6    | 2023  | H3333        |
| 279 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 8    | 2023  | S1062        |
| 280 | HHI [HIMSEN ENGINE]                | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 6    | 2023  | HMD4219      |
| 281 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 12   | 2023  | SN2579       |
| 282 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 12   | 2023  | H3292        |
| 283 | HHI [HIMSEN ENGINE]                | KSRPR           | 316L/TEF+CW/304 | 10   | 2023  | H3275        |
| 284 | SHI (WINGD ENGINE & HIMSEN ENGINE) | KSRPR           | 316L/TEF+CW/304 | 18   | 2023  | SN2604       |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer               | Model           | Material        | Q'ty | Del'y | Project name |
|-----|------------------------|-----------------|-----------------|------|-------|--------------|
| 285 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 7    | 2024  | H3224        |
| 286 | STX Engine[MAN ENGINE] | KSRPR<br>KSEVP  | 316L/TEF+CW/304 | 6    | 2024  | HK2202       |
| 287 | STX Engine[MAN ENGINE] | KSRPR<br>KSEVP  | 316L/TEF+CW/304 | 4    | 2024  | SF210302     |
| 288 | STX Engine[MAN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 8    | 2024  | S1067        |
| 289 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 3    | 2024  | H3333        |
| 290 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 16   | 2024  | H3356        |
| 291 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 12   | 2024  | HMD4222      |
| 292 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 3    | 2024  | SH8179       |
| 293 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 12   | 2024  | SH8175       |
| 294 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 7    | 2024  | H3225        |
| 295 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 12   | 2024  | HMD4223      |
| 296 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 12   | 2024  | HMD4224      |
| 297 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | 0020850      |
| 298 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H3223        |
| 299 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVP  | 316L/TEF+CW/304 | 4    | 2024  | H3293        |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer               | Model           | Material        | Q'ty | Del'y | Project name |
|-----|------------------------|-----------------|-----------------|------|-------|--------------|
| 300 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | H2785        |
| 301 | STX Engine[MAN ENGINE] | KSRPR<br>KSEVP  | 316L/TEF+CW/304 | 4    | 2024  | SF210303     |
| 302 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | N282         |
| 303 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H3297        |
| 304 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 3    | 2024  | DW2522       |
| 305 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | H3299        |
| 306 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 3    | 2024  | H3295        |
| 307 | HMS[HIMSEN ENGINE]     | KSRPR           | 316L/TEF+CW/304 | 10   | 2023  | APSI030      |
| 308 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 8    | 2024  | SN2599       |
| 309 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 6    | 2024  | HMD4218      |
| 310 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | 0208101      |
| 311 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 4    | 2024  | DW2523       |
| 312 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | SH8180       |
| 313 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 12   | 2024  | HMD4217      |
| 314 | STX Engine[MAN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H2530        |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer               | Model           | Material        | Q'ty | Del'y | Project name |
|-----|------------------------|-----------------|-----------------|------|-------|--------------|
| 315 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | H2786        |
| 316 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 16   | 2024  | H3357        |
| 317 | STX Engine[MAN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H2531        |
| 318 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H3296        |
| 319 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | N283         |
| 320 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | H3321        |
| 321 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | H2787        |
| 322 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 12   | 2024  | CMHI-282-01  |
| 323 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 12   | 2024  | HMD4219      |
| 324 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | 0208107      |
| 325 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 4    | 2024  | DW2524       |
| 326 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H3221        |
| 327 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | DW2541       |
| 328 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | H3320        |
| 329 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 14   | 2024  | DW2525       |

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## 1) EQUIVALENT TYPE LIST

| No. | Customer            | Model           | Material        | Q'ty | Del'y | Project name          |
|-----|---------------------|-----------------|-----------------|------|-------|-----------------------|
| 330 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | DW2533                |
| 331 | HHI                 | KSRPR           | 316L/TEF+CW/304 | 3    | 2024  | SAL DE ORO-2 8MW DFPP |
| 332 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | SH8102                |
| 333 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | HMD4220               |
| 334 | HHI [HIMSEN ENGINE] | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | H2788                 |
| 335 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | DW2542                |
| 336 | HHI [HIMSEN ENGINE] | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | CHB2027               |
| 337 | HHI [HIMSEN ENGINE] | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 9    | 2024  | HMD4221               |
| 338 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 15   | 2024  | H3222                 |
| 339 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 24   | 2024  | CHB2028               |
| 340 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 12   | 2024  | DW2534                |
| 341 | HHI                 | KSRPR           | 316L/TEF+CW/304 | 2    | 2024  | JBG 6.5MW GPP         |
| 342 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | DW2535                |
| 343 | HHI [HIMSEN ENGINE] | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | 0208108               |
| 344 | HHI [HIMSEN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 15   | 2024  | H3298                 |

# 1. REFERENCE

## 1) EQUIVALENT TYPE LIST

| No. | Customer               | Model           | Material        | Q'ty | Del'y | Project name |
|-----|------------------------|-----------------|-----------------|------|-------|--------------|
| 345 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 12   | 2024  | SN2619       |
| 346 | STX Engine[MAN ENGINE] | KSRPR<br>KSEVP  | 316L/TEF+CW/304 | 4    | 2024  | SF210304     |
| 347 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 12   | 2024  | CMHI-282-02  |
| 348 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 24   | 2024  | 0208102      |
| 349 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVP  | 316L/TEF+CW/304 | 8    | 2024  | H3358        |
| 350 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | SH8181       |
| 351 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 8    | 2024  | SN2651       |
| 352 | STX Engine[MAN ENGINE] | KSRPR           | 316L/TEF+CW/304 | 9    | 2024  | H2544        |
| 353 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 6    | 2024  | MRS-114      |
| 354 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 28   | 2024  | CMHI-282-02  |
| 355 | HHI [HIMSEN ENGINE]    | KSRPR<br>KSEVPL | 316L/TEF+CW/304 | 28   | 2024  | CHB2029      |
| 356 | HHI [HIMSEN ENGINE]    | KSRPR           | 316L/TEF+CW/304 | 4    | 2024  | SN2598       |
| 357 |                        |                 |                 |      |       |              |
| 358 |                        |                 |                 |      |       |              |
| 359 |                        |                 |                 |      |       |              |

# 1. REFERENCE

## 2) PHOTOS OF EXPLOSION PANEL

- Wärtsilä Hyundai Engine Co., Ltd.



- SHI  
SN2148



- HHI  
HN2800/2801



# 1. REFERENCE

## 2) PHOTOS OF EXPLOSION PANEL

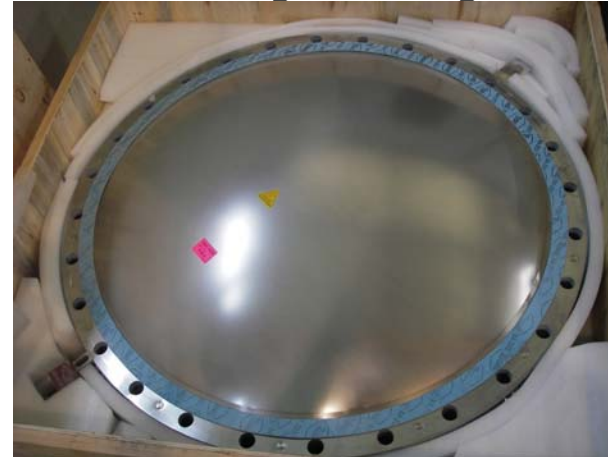
- Doosan Heavy I&C Co., Ltd.  
Indonesia - CIREBON TPP PJT



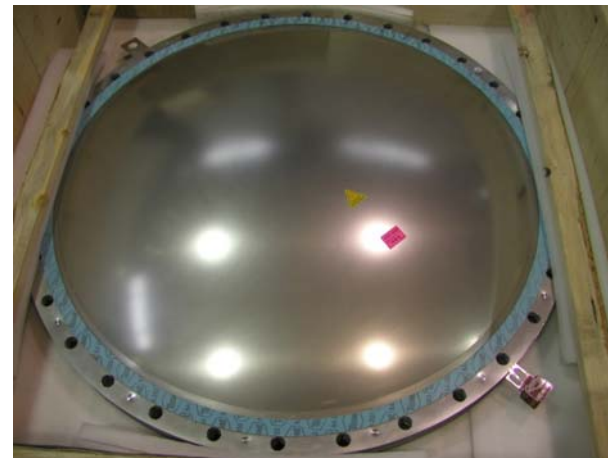
- Doosan Heavy I&C Co., Ltd.  
Taiwan - HSINTA POWER PJT



- STX E&C Co., Ltd.  
Korea - STX Engine DF Engine PJT



- GNC Enerergy Co., Ltd.  
Korea - Cheong-soo Group Energy PJT (Engine Power plant)



# 1. REFERENCE

## 2) PHOTOS OF EXPLOSION PANEL

- LG Chem. Co., Ltd.  
Korea - Yeosu VCM Plant



- HHI  
HN2733/2734, etc.



- NTS  
0208101~10, etc.



- NTS  
0208101~10, etc



# 1. REFERENCE

## 2) PHOTOS OF FLAMELESS EXPLOSION VENTING DEVICE

- LG Chem. Co., Ltd.
- Built on Exhaust Pipe of DF Engine



수기기록 : 

송장번호 : UW385-UW38525310001

**입고물:**

도착예정일시 : 2025.03.11 / 09:32

운전자/차량 : 방윤배 / 울산90자3843

Page : 1

| 공 급 자 |              |
|-------|--------------|
| 상 호   | 에프디씨(주)      |
| 등록번호  | 615-81-65518 |
| 연 락 처 | 055-337-0852 |

|       |            |          |                         |         |              |
|-------|------------|----------|-------------------------|---------|--------------|
| 발행일자  | 2025.03.10 | 투입장소     | 엔진통합창고 內 힘센내자1창고        | 설치부서/반  |              |
| 사 업 부 | 엔진기계       | 공사번호/공사명 | KBA008387 /             | 요청자/TEL | 이태희 / 2-7105 |
| 업체코드  | UW385      | 발주번호/납기  | EM252Y2000 / 2025.02.13 | 계정/화폐   | 5000 / KRW   |
| 인도조건  | 당사상차도      | LC번호     | R0696250201052          | 검사조건    |              |

| NO. | 호 선                          | 엔진타입                              |      | 소요일자                               | 품명 및 규격                                                             |     | POR NO. (BAR CODE)                                                                                        |       |     |        |
|-----|------------------------------|-----------------------------------|------|------------------------------------|---------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------|-------|-----|--------|
|     | POR번호                        | 자재번호                              |      | 배당일자                               | 단 위                                                                 | 수 량 | 공정                                                                                                        | T/Bed | 작업장 | NCR NO |
|     |                              | 검사조건                              | 설계담당 | 투입처                                | 금 액                                                                 |     | 특 기 사 항                                                                                                   |       |     |        |
| 1   | N283<br>KBA008387<br>Y120003 | 7H35DF<br>KBP004262600001<br>자주검사 | 이태희  | 2025.02.13<br>00000000<br>중형 1-1창고 | FLAME ARRESTER-(LOW<br>TYPE)-400A SPARE<br>EA                       | 1   | <br>HTM<br>000200048532 |       |     |        |
| 2   | N283<br>KBA008387<br>Y120004 | 7H35DF<br>KBP004638500001<br>자주검사 | 이태희  | 2025.02.13<br>00000000<br>중형 1-1창고 | EXHAUST RUPTURE<br>DISC-(COMBINED TYPE)-400A<br>NON-EXPLOSIVE<br>EA | 1   | <br>HTM<br>000200048532 |       |     |        |
|     |                              |                                   |      |                                    |                                                                     |     |                                                                                                           |       |     |        |
|     |                              |                                   |      |                                    |                                                                     |     |                                                                                                           |       |     |        |
|     |                              |                                   |      |                                    |                                                                     |     |                                                                                                           |       |     |        |
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|     |                              |                                   |      |                                    |                                                                     |     |                                                                                                           |       |     |        |
| 합계액 |                              |                                   |      |                                    |                                                                     |     |                                                                                                           |       |     |        |

|                                                                                     |      |                                                                                                                   |            |         |                                                                                       |
|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------|------------|---------|---------------------------------------------------------------------------------------|
| 입고번호                                                                                | 창고확인 | 검 사 자                                                                                                             | 전산 사전정의 코드 | 성명/서명   | 정문확인                                                                                  |
|                                                                                     |      |  <div>자주검사</div> <div>서명</div> | BB         | 김경우 (인) |  |
|                                                                                     |      |                                                                                                                   | 인수자 코드     | 성명/서명   |                                                                                       |
|  |      |                                                                                                                   | 인수자        | (인)     |                                                                                       |



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|  | 615-81-65518 |
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|         |                                                                           |                   |  |  |  |               |                               |                 |                                       |                  |                                              |  |     |            |  |      |  |  |
|---------|---------------------------------------------------------------------------|-------------------|--|--|--|---------------|-------------------------------|-----------------|---------------------------------------|------------------|----------------------------------------------|--|-----|------------|--|------|--|--|
| Project |                                                                           | E25B001           |  |  |  | Config.No     |                               | 9L35/44DF - G00 |                                       |                  | A2O                                          |  | TOC |            |  | TASK |  |  |
| Project |                                                                           | /BW LNGC_H2544_9L |  |  |  | H2544         |                               |                 |                                       | MUNSEL 7.5GY 7/4 |                                              |  |     |            |  |      |  |  |
| NO      |                                                                           |                   |  |  |  |               | ITEM Type/Planner             |                 | TACT Code/                            |                  | /                                            |  |     | /          |  |      |  |  |
|         |                                                                           |                   |  |  |  |               | /                             |                 | /                                     |                  | /                                            |  |     | /          |  |      |  |  |
|         |                                                                           |                   |  |  |  |               | /                             |                 | /                                     |                  | 가                                            |  |     | 가          |  |      |  |  |
|         |                                                                           |                   |  |  |  |               | /                             |                 | JOB /                                 |                  | 가                                            |  |     | 가          |  |      |  |  |
| 1       | 220100121A<br>RUPTURE DISC FOR H2509-8L35DF(DN700)<br>175699-0-3-1-1<br>/ |                   |  |  |  | MR01<br><br>N | STXRMT / B<br>- / -<br>Each / |                 | X20 /<br>( )<br>/<br>E25B001 - X020 / |                  | 2 / 0<br><br>2024-10-21<br>24/10/15~24/10/21 |  |     | /<br>2 / 2 |  |      |  |  |
| 2       | 220100122A<br>RUPTURE DISC FOR H2509-9L35DF(DN800)<br>175700-0-4-1-1<br>/ |                   |  |  |  | MR01<br><br>N | STXRMT / B<br>- / -<br>Each / |                 | X20 /<br>( )<br>/<br>E25B001 - X020 / |                  | 1 / 0<br><br>2024-10-21<br>24/10/15~24/10/21 |  |     | /<br>1 / 1 |  |      |  |  |
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|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|--------------|-------|-----------------|
| 출입통제  | 납품차량 출입통제 : <b>출근시간(06:30~07:50)</b> 위반시 출입금지                                                                                                                                                                                             |          |         |              |       |                 |
| 입고안내  | <div>[보안실] [자재창고] [Q/A] [생산현업] [자재창고] [보안실]</div> <div>입차 ➡ 현물확인 ➡ 검사 ➡ 자재인수 ➡ 명세서접수 ➡ 출차</div> <div>1. 공장출입시 거래명세서 보안실 확인 필요<br/>2. 거래명세서 접거나 훼손 금지<br/>3. 사내운행시 30Km/h이하 속도로 안전운행<br/>4. <b>안전보호구(안전모, 안전화, 보안경)착용은 필수 사항입니다.</b></div> |          |         |              |       | 입고장소            |
|       |                                                                                                                                                                                                                                           |          |         |              |       |                 |
| 납품회사  | 납품회사                                                                                                                                                                                                                                      |          |         |              |       |                 |
|       | 거래선                                                                                                                                                                                                                                       | A0042642 | 에프디씨(주) | 615-81-65518 | 전화번호  | 82-70-4687-4213 |
| 운송자   | 운전자                                                                                                                                                                                                                                       | 생략       |         | -선택-         | 전화번호  | 생략-****         |
| 입고예정일 | 2024년01월23일                                                                                                                                                                                                                               | 현물담당자    | 김동빈     | MOP          | 에스지엘티 |                 |
|       |                                                                                                                                                                                                                                           | 자재요청자    |         |              |       |                 |

|      |      |            |      |         |    |     |       |                |      |      |
|------|------|------------|------|---------|----|-----|-------|----------------|------|------|
| 발주공통 | 발주번호 | P11CA04094 | 프로젝트 | AN2305H | 통화 | KRW | L/CNo | R1216240103247 | Page | 0001 |
|------|------|------------|------|---------|----|-----|-------|----------------|------|------|

| 발주상세                |                                                                                               |            |       |     |                   |      |        |     |            |        |        |            |
|---------------------|-----------------------------------------------------------------------------------------------|------------|-------|-----|-------------------|------|--------|-----|------------|--------|--------|------------|
| ※납품상세리스트 불필요(재고미생성) |                                                                                               |            |       |     |                   |      |        |     |            |        |        |            |
| NO                  | 품번                                                                                            | PR No      | PR품번  | P/C | 자재번호              | Part | 단위     | 검사  | 납기일자       | 계약수량   |        | FITTING NO |
|                     | Description & Spec.                                                                           |            |       |     |                   | AAC  | 중량     | MRP | 자재소요       | 기납품    | 금회납품   | 배치번호       |
| 1                   | 00010                                                                                         | QA2305MM04 | 00010 | BA  | AN2305BG791400001 | 0    | SET    |     | 2024-01-16 | 24.000 |        |            |
|                     | EXPLOSION RELIEF DEVICE<br>EXPLOSION RELIEF DEVICE/GASKET FOR RUPTURE DISC(2305BG791401S0001) |            |       |     |                   | P    | 24.000 | ND  |            | 0.000  | 24.000 | 0          |
|                     |                                                                                               |            |       |     |                   |      |        |     |            |        |        |            |
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|-----|-------|------|--|-----|------|------|--|
| 총량계 | 24.00 | 공급가액 |  | VAT | 0.00 | 합계금액 |  |
|-----|-------|------|--|-----|------|------|--|

|                                                                                                                                                                                                                                                                                                                                                                                                         |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| NOTE                                                                                                                                                                                                                                                                                                                                                                                                    | 출력일시 : 2024.01.22 09:02:36 |
| 1) 계약 물품 명세 : (2023.12.15)일자 하기 삼성중공업(이하 '삼성') RFQ ( RFQ NO. SPT23-11C-1214-01 )<br>2) 거래당사자간 특별하게 약정하지 않은 경우, 계약물품에 요구되는 선급<br>3) 본 계약납기는 삼성의 건조일정에 따라 변경되어질 수 있으며, 삼성의 변경 가능하다.<br>① 발주서상 합의된 계약납기일은 자재별 구체적 수량, 일정이 나온 이후<br>② 합의된 구간납기는 구체적 수량, 일정 변경에 따라 상호 협의하여 변경<br>③ 구간납기 내 자재별 납품 예정일은 삼성에서 참고값으로 제공하고<br>자재별 실제 납품일은 삼성이 지정, 통보하는 불출요청일자를 기준으로 납<br>④ 다만, 삼성은 공급자와 상호 협의하여 결정한 납품준비리드타임(14일) |                            |

| 인수자(직배) (바른 글씨로 작성) |  |      |      |  |  | 현물담당 |   |   |
|---------------------|--|------|------|--|--|------|---|---|
| 성명                  |  | 인수장소 | AREA |  |  |      |   |   |
| 사번                  |  |      |      |  |  |      |   |   |
| 부서                  |  |      |      |  |  |      |   |   |
| 인수일                 |  | TEL  |      |  |  | M    | O | P |

※ 빠짐없이 기재 바랍니다

서류제출일



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삼성중공업 사업자 번호 : 612-85-00343