


Valiant TMS



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|------------------------|-----------------------------------|---|
| Company / customer | Volvo Trucks NA |  |
| Project description | P6700 Rear Wall - Robot Cell 2V06 | |
| drawing number | 22-16148 | |
| Commission | Volvo Trucks North America | |
| Manufacturer (company) | Valiant TMS | |
| Project name | =2V06&MFS-WATER | |
| Type | P6700 Rear Wall - Robot Cell 2V06 | |
| Created on | 4/12/2022 | |
| Edit date | 9/16/2022 | by (short name) MKLEPADLO |
| | | Number of pages 7 |



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| Date | 9/16/2022 | Volvo Trucks North America |  | Valiant TMS |  | Title page / cover sheet | Drawing name: | = | | | |
| Ed. | MKLEPADLO | P6700 Rear Wall - Robot Cell 2V06 | | | | | Drawing name: | = | =2V06&EFS-WATER | | |
| Appr | | Replacement of | Replaced by | | | Document type: | MAA | Project nr: | 22-16148 | Page | 1 |
| Modification | Date | Name | Original | | | Scale 1:1 | | | | | 7 |

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| &MAB/1 | Table of contents | | 9/16/2022 | MKLEPADLO | |
| &MFS=KH3+KH3/1 | Incoming water supply | | 9/16/2022 | MKLEPADLO | |
| &MFS=KH3+KH3/2 | Water distribution | | 9/16/2022 | MKLEPADLO | |
| &MPB+KH3/1 | Material specification | | 9/16/2022 | MKLEPADLO | X |
| &MPB+KH3/1.a | Material specification | | 9/16/2022 | MKLEPADLO | X |
| &MMC/1 | Cable overview : =KH3+KH3-WN1 - =KH3+KH3-WN33 | | 9/16/2022 | MKLEPADLO | X |
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Parts list

F01_001

| Device tag | Quantity | Designation | Type number | Supplier | Part number |
|------------|----------|--|-----------------------|---------------|---------------------------|
| =KH3-A1 | 1 | 1/4" Pressure gauge, 0~100PSI 2-1/2" dial w/ABS case | 25.110.100 | NOSHOK | 25.110.100 |
| =KH3-A2 | 1 | 1/4" Pressure gauge, 0~100PSI 2-1/2" dial w/ABS case | 25.110.100 | NOSHOK | 25.110.100 |
| =KH3-A3 | 1 | 1/4" Pressure gauge, 0~100PSI 2-1/2" dial w/ABS case | 25.110.100 | NOSHOK | 25.110.100 |
| =KH3-BF1 | 1 | Water differential pressure switch w/gage, 1/4 pt | DP-F-KIT | OMNI CONTROLS | DP-F-KIT |
| =KH3-BF2 | 1 | Water flow switch, 1/2" NPT, PNP N.O., M12, Immersion Sensor | FCS-N1/2A4-AP8X-H1141 | TURCK | TUR.FCS-N1/2A4-AP8X-H1141 |
| =KH3-FL1 | 1 | 2" CHECK VALVE, IN LINE | 61-108-01 | CONBRACO | 61-108-01 |
| =KH3-HQ1 | 1 | 2" Water bag filter; NPT size 2, 200 GPM max flow | 20403-001-2" | OMNI CONTROLS | 20403-001-2" |
| =KH3-KH1 | 1 | 1-1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-107-46 | APOLLO | 77-107-46 |
| =KH3-KH1 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, RED | W-8374-RED | CONBRACO | W-8374-RED |
| =KH3-KH2 | 1 | 2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-108-46 | APOLLO | 77-108-46 |
| =KH3-KH2 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, GREEN | W-8374-GREEN | CONBRACO | W-8374-GREEN |
| =KH3-KH3 | 1 | 1/4" BALL VALVE, 2PC FULL PORT BRONZE - NPT | 77-101-01 | APOLLO | 77-101-01 |
| =KH3-KH3 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH4 | 1 | 1/4" BALL VALVE, 2PC FULL PORT BRONZE - NPT | 77-101-01 | APOLLO | 77-101-01 |
| =KH3-KH4 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH5 | 1 | 1/4" BALL VALVE, 2PC FULL PORT BRONZE - NPT | 77-101-01 | APOLLO | 77-101-01 |
| =KH3-KH5 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH6 | 1 | 2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-108-46 | APOLLO | 77-108-46 |
| =KH3-KH6 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, GREEN | W-8374-GREEN | CONBRACO | W-8374-GREEN |
| =KH3-KH7 | 1 | 2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-108-46 | APOLLO | 77-108-46 |
| =KH3-KH7 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, GREEN | W-8374-GREEN | CONBRACO | W-8374-GREEN |
| =KH3-KH8 | 1 | 1/4" BALL VALVE, 2PC FULL PORT BRONZE - NPT | 77-101-01 | APOLLO | 77-101-01 |
| =KH3-KH8 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH9 | 1 | 2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-108-46 | APOLLO | 77-108-46 |
| =KH3-KH9 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, GREEN | W-8374-GREEN | CONBRACO | W-8374-GREEN |
| =KH3-KH11 | 1 | 2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-108-46 | APOLLO | 77-108-46 |
| =KH3-KH11 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, GREEN | W-8374-GREEN | CONBRACO | W-8374-GREEN |
| =KH3-KH12 | 1 | 2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-108-46 | APOLLO | 77-108-46 |
| =KH3-KH12 | 1 | 1-1/2" ~ 2" BALL VALVE HANDLE COVER, GREEN | W-8374-GREEN | CONBRACO | W-8374-GREEN |
| =KH3-KH14 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH14 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH15 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH15 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH16 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH16 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH17 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH17 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH18 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH18 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH19 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH19 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH20 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH20 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH21 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH21 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH22 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH22 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH23 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH23 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH24 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH24 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH25 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH25 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH26 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |
| =KH3-KH26 | 1 | 1/4"~1/2" BALL VALVE HANDLE COVER, GREEN | W-8368-GREEN | CONBRACO | W-8368-GREEN |
| =KH3-KH27 | 1 | 1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT | 77-103-46 | APOLLO | 77-103-46 |

&MFS=KH3/2

1.a



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| Date | 9/16/2022 | Volvo Trucks North America | Valiant TMS | Material specification | Drawing name: | = |
| Ed. | MKLEPADLO | | | | =2V06&MFS-WATER | + KH3 |
| Appr | | P6700 Rear Wall - Robot Cell 2V06 | | | Document type: | Project nr: |
| Modification | Date | Name | Original | Replaced by | MPB | 22-16148 |
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Cable overview

F10_007 RCN WATER

| Cable name | Source (from) | Target (to) | cable type | all conductors | Conductors used | Cross-section ["] | Length [m] | function text | Graphical page of cable diagram |
|------------|---------------|---------------|------------|----------------|-----------------|-------------------|------------|---------------|---------------------------------|
| =KH3-WN1 | | | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN2 | =KH3+KH3-KH1 | =KH3+KH3-KH2 | PIPE | 1 | 0 | 1 1/2 | | | |
| =KH3-WN3 | =KH3+KH3-HQ1 | =KH3+KH3-KH3 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN4 | =KH3+KH3-KH15 | =KH3+KH3-KH6 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN5 | =KH3+KH3-KH11 | =KH3+KH3-KH7 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN6 | =KH3+KH3-BF2 | =KH3+KH3-FL1 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN7 | =KH3+KH3-FL1 | =KH3+KH3-KH8 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN8 | =KH3+KH3-KH9 | =KH3+KH3-OUT | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN9 | =KH3+KH3-KH1 | =KH3+KH3-KH9 | PIPE | 1 | 0 | 1 1/2 | | | |
| =KH3-WN11 | =KH3+KH3-KH11 | =KH3+KH3-KH12 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN12 | =KH3+KH3-KH12 | =KH3+KH3-KH17 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN13 | =KH3+KH3-KH12 | =KH3+KH3-KH16 | PIPE | 1 | 0 | 2 | | | |
| =KH3-WN14 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN15 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN16 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN17 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN18 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN19 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN20 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN21 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN22 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN23 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN24 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN25 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN26 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN27 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN28 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN29 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN30 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN31 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN32 | | | 83FR | 1 | 0 | 1/2 | | | |
| =KH3-WN33 | | | 83FR | 1 | 0 | 1/2 | | | |

&MPB+KH3/1.a

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|--------------|-----------|-----------------------------------|---|-------------|---|----------------------------------|------|
| Date | 9/16/2022 | Volvo Trucks North America |  | Valiant TMS | Cable overview : =KH3+KH3-WN1 - =KH3+KH3-WN33 | Drawing name: =2V06&MFS-WATER | = |
| Ed. | MKLEPADLO | P6700 Rear Wall - Robot Cell 2V06 |  | | | Document type: MMC | + |
| Appr. | | Replacement of | Replaced by | | Scale 1:1 | Project nr: 22-16148 | Page |
| Modification | Date | Name | Original | | | | 1 |
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