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F06_001

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&MAA/1	Title page / cover sheet		10/7/2022	MKLEPADLO	
&MAB/1	Table of contents		10/7/2022	MKLEPADLO	
&MFS=KH3+KH3/1	Incoming water supply		10/7/2022	MKLEPADLO	
&MFS=KH3+KH3/2	Water distribution Header A		10/7/2022	MKLEPADLO	
&MFS=KH3+KH3/3	Water distribution Header B		10/7/2022	MKLEPADLO	
&MPB+KH3/1	Material specification		10/7/2022	MKLEPADLO	
&MPB+KH3/1.a	Material specification		10/7/2022	MKLEPADLO	
&MMC/1	Cable overview : =KH3+KH3-WN1 - =KH3+KH3-WN43		10/7/2022	MKLEPADLO	

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-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-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=KH3/3

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Date	10/7/2022	Volvo Trucks North America	Valiant TMS	Material specification	Drawing name:	=		
Ed.	MKLEPADLO	P6700 Firewall - Cell 2V05	Scale 1:1		=2V05&MFS-WATER	+ KH3		
Appr					Document type:	Project nr:	Page	1
Modification	Date	Name	Original	Replacement of	Replaced by	MPB	22-16143	8


Parts list

F01_001

Device tag	Quantity	Designation	Type number	Supplier	Part number
=KH3-KH27	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH28	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH28	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH29	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH29	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH30	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH30	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH31	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH31	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH32	1	1-1/4" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-106-46	APOLLO	77-106-46
=KH3-KH32	1	1" ~ 1-1/4" BALL VALVE HANDLE COVER, GREEN	W-8372-GREEN	CONBRACO	W-8372-GREEN
=KH3-KH34	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH34	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH35	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH35	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH36	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH36	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH38	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH38	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH39	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH39	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH40	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH40	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH41	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH41	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH42	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH42	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN
=KH3-KH43	1	1/2" BALL VALVE, 2PC FULL PORT BRONZE W/LOCK - NPT	77-103-46	APOLLO	77-103-46
=KH3-KH43	1	1/4"~1/2" BALL VALVE HANDLE COVER, GREEN	W-8368-GREEN	CONBRACO	W-8368-GREEN

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&MMC+/1


Date	10/7/2022	Volvo Trucks North America	 Valiant TMS Material specification	Drawing name:	=
Ed.	MKLEPADLO	P6700 Firewall - Cell 2V05		=2V05&MFS-WATER	+ KH3
Appr		Replacement of	Scale 1:1	Document type:	Project nr:
Original		Replaced by		MPB	22-16143
Modification	Date	Name			Page 1.a
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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-KH4.1	=KH3+KH3-KH6	PIPE	1	0	2			
=KH3-WN5	=KH3+KH3-KH5.1	=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-WN12	=KH3+KH3-KH11	=KH3+KH3-KH30	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	=KH3+KH3-KH32	=KH3+KH3-KH42	PIPE	1	0	1 1/4			
=KH3-WN34			83FR	1	0	1/2			
=KH3-WN35			83FR	1	0	1/2			
=KH3-WN36			83FR	1	0	1/2			
=KH3-WN37			83FR	1	0	1/2			
=KH3-WN38			83FR	1	0	1/2			
=KH3-WN39			83FR	1	0	1/2			
=KH3-WN40			83FR	1	0	1/2			
=KH3-WN41			83FR	1	0	1/2			
=KH3-WN42			83FR	1	0	1/2			
=KH3-WN43			83FR	1	0	1/2			

&MPB+KH3/1.a

Date	10/7/2022	Volvo Trucks North America		Valiant TMS	Cable overview : =KH3+KH3-WN1 - =KH3+KH3-WN43	Drawing name:	=		
Ed.	MKLEPADLO	P6700 Firewall - Cell 2V05		Scale 1:1		=2V05&MFS-WATER	+		
Appr		Replacement of	Replaced by			Document type:	Project nr:	Page	1
Modification	Date	Name	Original			MMC	22-16143		8