

FEATURES & BENEFITS

OPTIONS

For more information, visit www.hawesco.com or call (888) 640-4297.



SPECIFICATIONS

The Haws VRKEWE.E is a valve repair kit for the TWBS.EWE mixing valve. This kit includes parts to repair the thermostats and o-rings.

APPLICATIONS

KIT INSTALLATION INSTRUCTIONS

VRKEWE.A: KIT, REPAIR, TWBS.EWE, COMPLETE

CONSISTS OF VRKEWE.B, VRKEWE.C, AND VRKEWE.D. FOLLOW INSTRUCTIONS OUTLINED FOR EACH AS NOTED ON THIS PAGE.

VRKEWE.B: KIT, REPAIR, TWBS.EWE, MAIN MIXING CHAMBER (REFER TO SHEET 2)

1. REMOVE 4 COVER CAP SCREWS AS SHOWN.
2. REMOVE COVER.
3. REMOVE O-RING FROM COVER AND REPLACE WITH NEW O-RING FROM KIT.
4. REMOVE OVERLOAD ASSEMBLY FROM COVER BY PULLING STRAIGHT OUT, AND REPLACE WITH NEW OVERLOAD ASSEMBLY FROM KIT.
5. REMOVE PISTON/THERMOSTAT ASSEMBLY FROM VALVE BY PULLING STRAIGHT UP ON PISTON.
6. REMOVE CYLINDER ASSEMBLY FROM VALVE BY PULLING FIRMLY STRAIGHT UP ON THE CYLINDER ASSEMBLY.
7. REMOVE THREE PISTON SPRINGS FROM VALVE FUNNEL.
8. REMOVE VALVE FUNNEL FROM VALVE BY PULLING STRAIGHT UP ON FUNNEL AND FUNNEL O-RING IF IT DOES NOT COME OUT WITH THE FUNNEL.
9. INSTALL NEW FUNNEL O-RING AND FUNNEL FROM KIT.
10. INSTALL NEW CYLINDER ASSEMBLY FROM KIT AS SHOWN ON SHEET 2 BY PRESSING FIRMLY STRAIGHT DOWN AND ROCKING THE ASSEMBLY TO WORK IT PAST THE COLD INLET CHANNEL.
11. INSTALL 3 NEW PISTON SPRINGS FROM KIT INTO VALVE FUNNEL.
12. INSTALL NEW PISTON ASSEMBLY INTO CYLINDER AS SHOWN ON SHEET 2, BEING CAREFUL TO CLOCK THE PISTON SUCH THAT THE THREE FLATS UNDER THE PISTON SIT ON THE PISTON SPRINGS. THE PISTON SHOULD MOVE FREELY AGAINST THE SPRING PRESSURE IN THE CYLINDER.
13. INSTALL THE EXISTING COVER ON THE VALVE (CLOCKING IS NOT CRITICAL) AND INSERT THE FOUR CAP SCREWS.
14. TIGHTEN SCREWS IN A CROSS PATTERN EVENLY UNTIL THE COVER CONTACTS THE VALVE BODY.
15. TORQUE SCREWS TO 62 IN-LBS.

VRKEWE.C: KIT, REPAIR, TWBS.EWE, CHECK STOPS (REFER TO SHEET 3)

1. NOTE: HOT AND COLD CHECK STOP ASSEMBLIES ARE IDENTICAL.
2. REMOVE HOT CHECK STOP COVER WITH 1-3/8" WRENCH OR ADJUSTABLE WRENCH.
3. REMOVE SPRING, CHECK STOP ASSEMBLY, CAGE, AND MESH SCREEN FROM VALVE.
4. CLEAN ANY VISIBLE DEBRIS FROM CHECK STOP CAVITY.
5. INSTALL NEW MESH SCREEN, CAGE, AND CHECK STOP ASSEMBLY FROM KIT AS SHOWN ON SHEET 3.
6. INSTALL NEW SPRING, ADJUSTMENT SCREW, AND CHECK STOP COVER FROM KIT. ADJUSTMENT SCREW SHOULD ALWAYS BE FULLY OUT (CCW) UNLESS THERE IS A NEED TO SHUT OFF THE HOT OR COLD WATER FOR TESTING.
7. REPEAT STEPS 2-6 WITH COLD CHECK STOP ASSEMBLY.

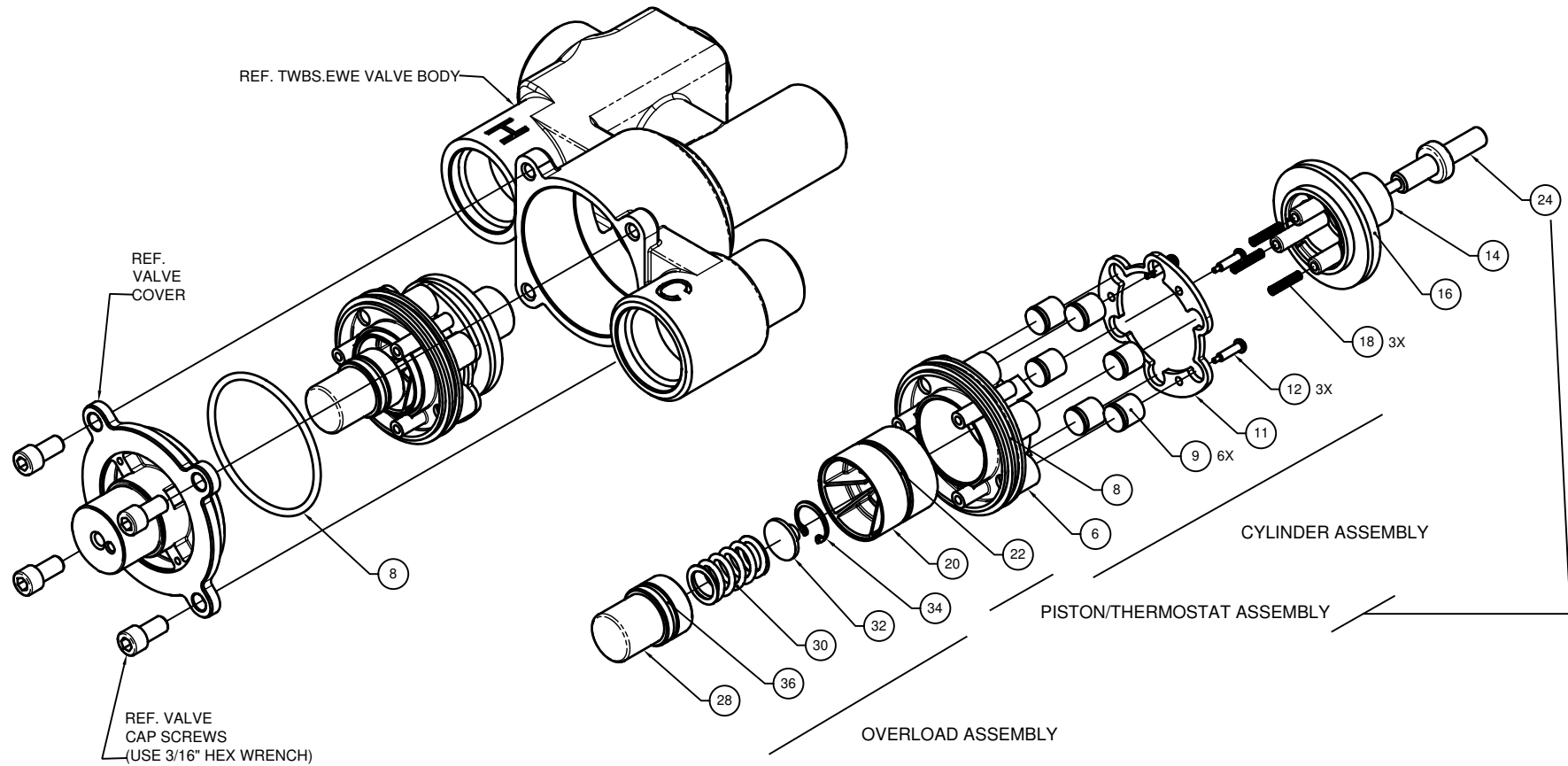
VRKEWE.D: KIT, REPAIR, TWBS.EWE, HOT SHUT OFF (REFER TO SHEET 4)

1. REMOVE HOT SHUT OFF COVER WITH 1-3/8" WRENCH OR ADJUSTABLE WRENCH.
2. REMOVE SPRING, SEAT ASSEMBLY, OVERLOAD ASSEMBLY, AND CYLINDER/THERMOSTAT ASSEMBLY FROM CAVITY BY PULLING STRAIGHT OUT. COMPONENTS CAN ALSO BE PUSHED OUT WITH A FINGER INSERTED INTO THE TEPID WATER OUTLET PORT OF THE VALVE BODY.
3. INSTALL NEW CYLINDER/THERMOSTAT ASSEMBLY, OVERLOAD ASSEMBLY, SEAT ASSEMBLY, AND SPRING FROM KIT AS SHOWN ON SHEET 4.
4. INSTALL NEW HOT SHUT OFF COVER FROM KIT AS SHOWN ON SHEET 4.

VRKEWE.E: KIT, BASIC MAINT, TWBS.EWE, T-STATS+O-RINGS


1. REFER TO EXPLODED VIEWS IN SHEETS 2 - 4 AND DISASSEMBLY AND RE-ASSEMBLY INSTRUCTIONS ON THIS PAGE.
2. RECOMMEND ANY DRY O-RINGS BE LUBRICATED WITH FOOD GRADE SILICONE LUBRICANT, SUCH AS DOW CORNING 111 PRIOR TO INSTALLATION.
3. THERMOSTATS SHOULD BE INSTALLED SNUGLY, TAKING CARE NOT TO DAMAGE THEM.
4. MAIN COVER CAP SCREWS SHOULD BE TORQUED TO 62 IN-LBS PER VRKEWE.B INSTRUCTIONS.

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|---|--|---|--|
|  | | 1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 E-MAIL: HAWS@HAWS.CO.COM WEBSITE: WWW.HAWS.CO.COM | |
| | | ECN NO. 5427 DRAWN: DP APPROVED: DP | REVISED PER: ECN: 5427 DATE: 05/16/19 DATE: 05/23/19 |
| | | PART NUMBER 0510000954 | REVISION 1 |
| | | SCALE: 1:2.125 | DRAWING TYPE: INSTALLATION |
| | | SIZE: A | SHEET 1 OF 4 |



| VRKEWE.B MAIN MIXING CHAMBER REPAIR KIT | | | | |
|---|------------------------|-----|--------------------------------------|---------------------------|
| ITEM # | SUB ASSEMBLY | QTY | DESCRIPTION | VRKEWE.E BASIC MAINT. KIT |
| 8 | N/A | 1 | O-RING DASH# 137 (2.050 ID X .103 W) | INCLUDED |
| 28 | OVERLOAD ASSEMBLY | 1 | OVERLOAD HOUSING | |
| 36 | OVERLOAD ASSEMBLY | 1 | O-RING DASH# 018 (.739 ID X .070 W) | INCLUDED |
| 30 | OVERLOAD ASSEMBLY | 1 | OVERLOAD COMPRESSION SPRING | |
| 32 | OVERLOAD ASSEMBLY | 1 | OVERLOAD INSERT | |
| 34 | OVERLOAD ASSEMBLY | 1 | RETAINING RING | |
| 20 | PISTON/THERMOSTAT ASSY | 1 | PLUNGER | |
| 22 | PISTON/THERMOSTAT ASSY | 1 | O-RING DASH# 024 (1.114 ID X .070 W) | INCLUDED |
| 24 | PISTON/THERMOSTAT ASSY | 1 | THERMOSTAT MAIN 60-100 | INCLUDED |
| 6 | CYLINDER ASSEMBLY | 1 | SLEEVE | |
| 8 | CYLINDER ASSEMBLY | 1 | O-RING DASH# 137 (2.050 ID X .103 W) | INCLUDED |
| 9 | CYLINDER ASSEMBLY | 6 | CHECK VALVE 10MM | |
| 11 | CYLINDER ASSEMBLY | 1 | CHECK VALVE RETAINER | |
| 12 | CYLINDER ASSEMBLY | 4 | SCREW #4 SST | |
| 18 | N/A | 3 | PISTON SPRING SST | |
| 14 | N/A | 1 | FUNNEL VALVE | |
| 16 | N/A | 1 | O-RING DASH# 325 (1.475 ID X .210 W) | INCLUDED |

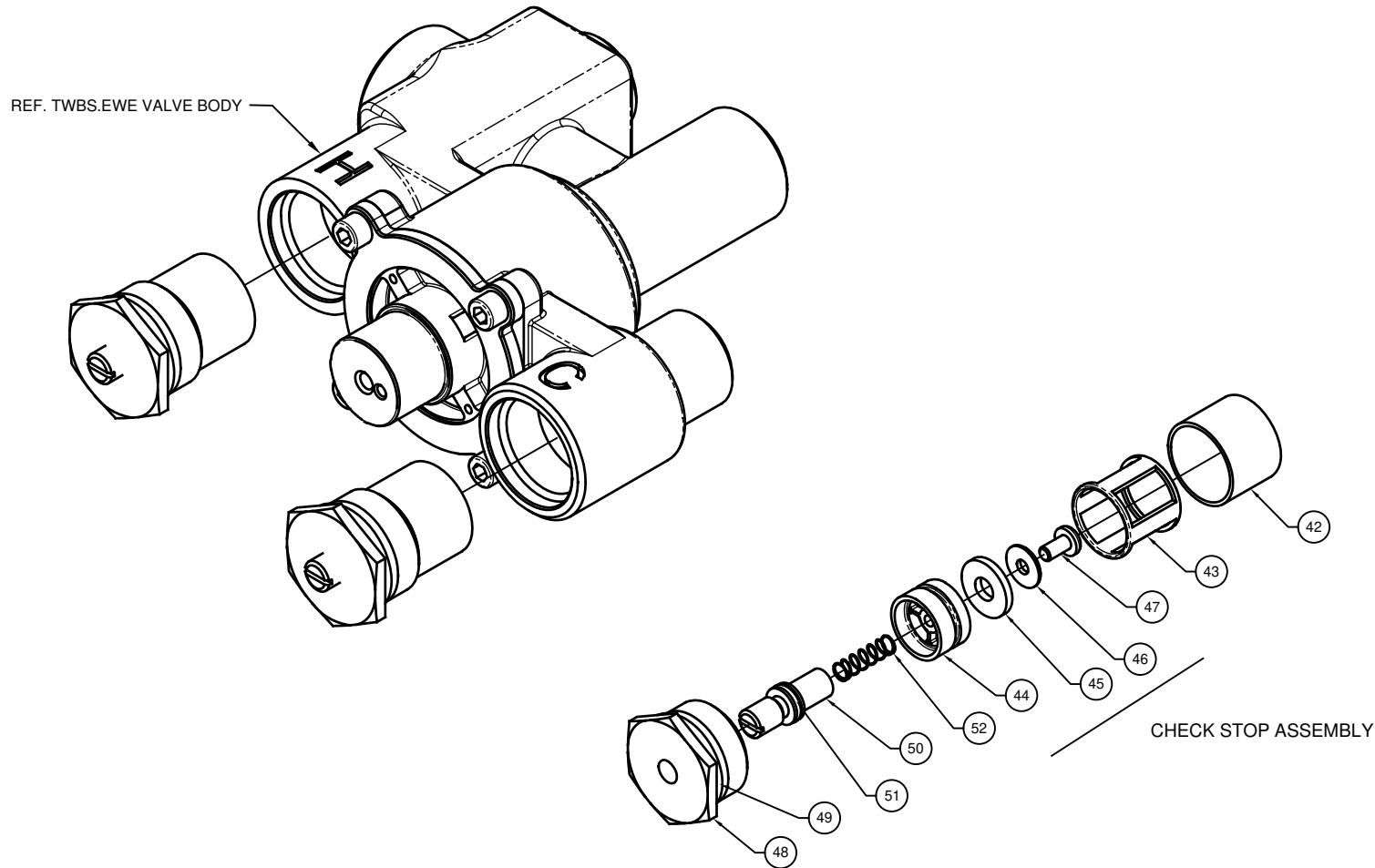
VRKEWE.B MAIN MIXING CHAMBER REPAIR KIT SHOWN ON THIS SHEET



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| ECN NO. 5427 | REVISED PER ECN: 5427 | BY: DP | MODEL(S) | |
| DRAWN: DP | DATE: 05/16/19 | CHK'D: FV | VRKEWE.A/B/.C/D/.E VALVE REPAIR KITS | |
| APPROVED: DP | DATE: 05/23/19 | SCALE: N/A | | |
| | | | SIZE: A | REVISION 1 |
| | | | SHEET 2 OF 4 | |

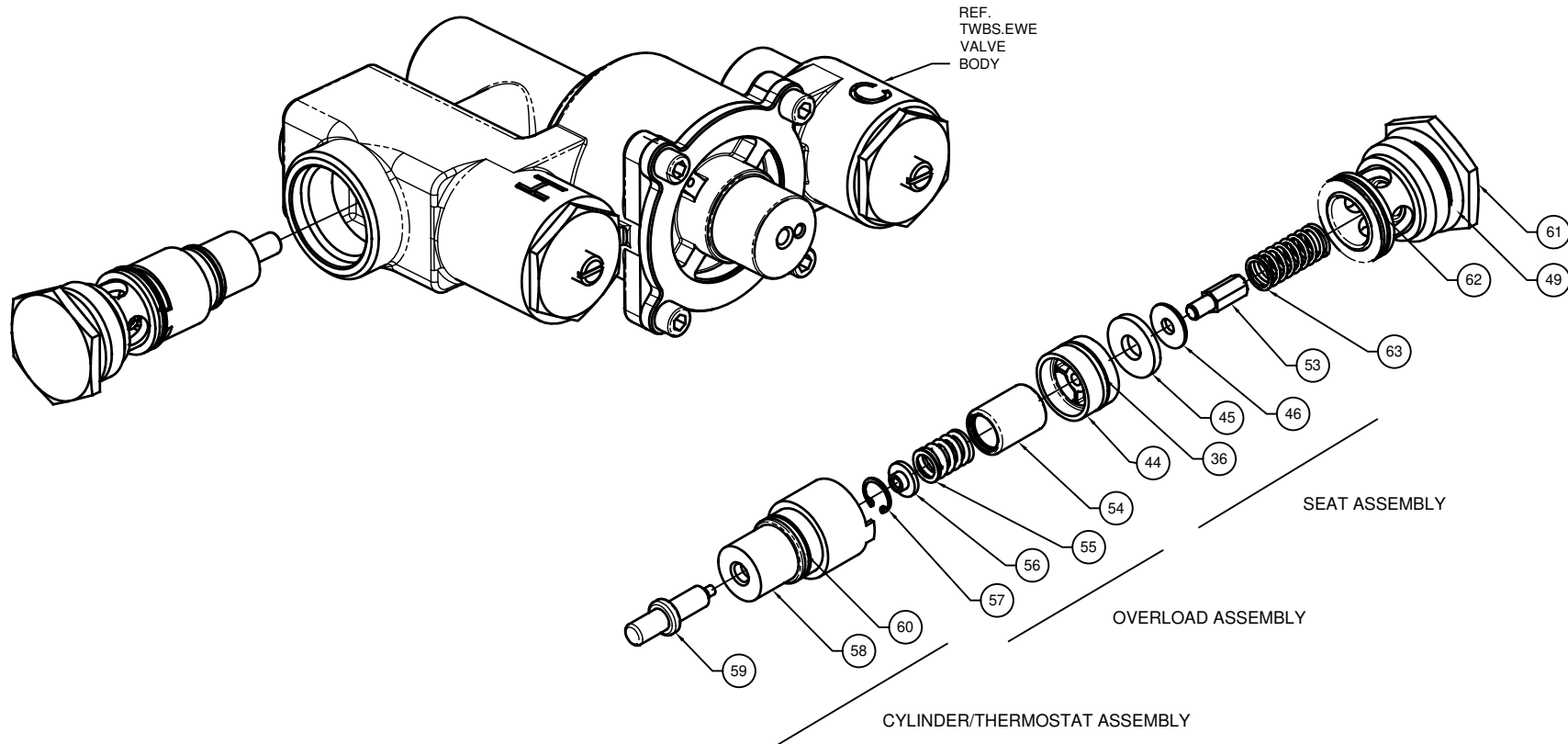


NOTE: HOT AND COLD CHECK STOPS ARE IDENTICAL. KIT INCLUDES BOTH.

**VRKEWE.C CHECK STOPS REPAIR KIT
SHOWN ON THIS SHEET**


| VRKEWE.C CHECK STOPS REPAIR KIT | | | | |
|---------------------------------|-----------------|-----|--------------------------------------|---------------------------|
| ITEM # | SUB ASSEMBLY | QTY | DESCRIPTION | VRKEWE.E BASIC MAINT. KIT |
| 48 | N/A | 2 | CHECK STOP COVER BONNET | |
| 49 | N/A | 2 | O-RING DASH# 215 (1.046 ID X .139 W) | INCLUDED |
| 51 | N/A | 2 | O-RING DASH# 012 (.364 ID X .070 W) | INCLUDED |
| 50 | N/A | 2 | STEM CHECK STOP ADJUST. SCREW | |
| 52 | N/A | 2 | SPRING | |
| 44 | CHECK STOP ASSY | 2 | POPPET (NO O-RING) | |
| 45 | CHECK STOP ASSY | 2 | WASHER EPDM | |
| 46 | CHECK STOP ASSY | 2 | WASHER SST | |
| 47 | CHECK STOP ASSY | 2 | SCREW SST 10-24 | |
| 43 | N/A | 2 | CAGE SLEEVE | |
| 42 | N/A | 2 | MESH SCREEN SST | |

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| | | PART NUMBER 0510000954 | REVISION 1 |
| SCALE: N/A | | DRAWING TYPE: INSTALLATION | SIZE: A SHEET 3 OF 4 |



| VRKEWE.D HOT SHUT OFF REPAIR KIT | | | | |
|----------------------------------|--------------------------|-----|--------------------------------------|---------------------------|
| ITEM # | SUB ASSEMBLY | QTY | DESCRIPTION | VRKEWE.E BASIC MAINT. KIT |
| 59 | CYLINDER/THERMOSTAT ASSY | 1 | THERMOSTAT 90-95 | INCLUDED |
| 58 | CYLINDER/THERMOSTAT ASSY | 1 | CYLINDER HOUSING | |
| 60 | CYLINDER/THERMOSTAT ASSY | 1 | O-RING DASH# 017 (.676ID X .070 W) | INCLUDED |
| 57 | OVERLOAD ASSEMBLY | 1 | RETAINING RING | |
| 56 | OVERLOAD ASSEMBLY | 1 | INSERT | |
| 55 | OVERLOAD ASSEMBLY | 1 | OVERLOAD COMPRESSION SPRING | |
| 54 | OVERLOAD ASSEMBLY | 1 | OVERLOAD HOUSING | |
| 44 | SEAT ASSEMBLY | 1 | POPPET | |
| 36 | SEAT ASSEMBLY | 1 | O-RING DASH# 018 (.739 ID X .070 W) | INCLUDED |
| 45 | SEAT ASSEMBLY | 1 | WASHER EPDM | |
| 46 | SEAT ASSEMBLY | 1 | WASHER SST | |
| 53 | SEAT ASSEMBLY | 1 | SPRING GUIDE | |
| 63 | N/A | 1 | SPRING SST | |
| 62 | N/A | 1 | O-RING DASH# 021 (.926 ID X .070 W) | INCLUDED |
| 49 | N/A | 1 | O-RING DASH# 215 (1.046 ID X .139 W) | INCLUDED |
| 61 | N/A | 1 | HOT SHUT OFF COVER BONNET | |

**VRKEWE.D HOT SHUT OFF VALVE REPAIR KIT
SHOWN ON THIS SHEET**

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|---|--|----------------------------|--|---|---|
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