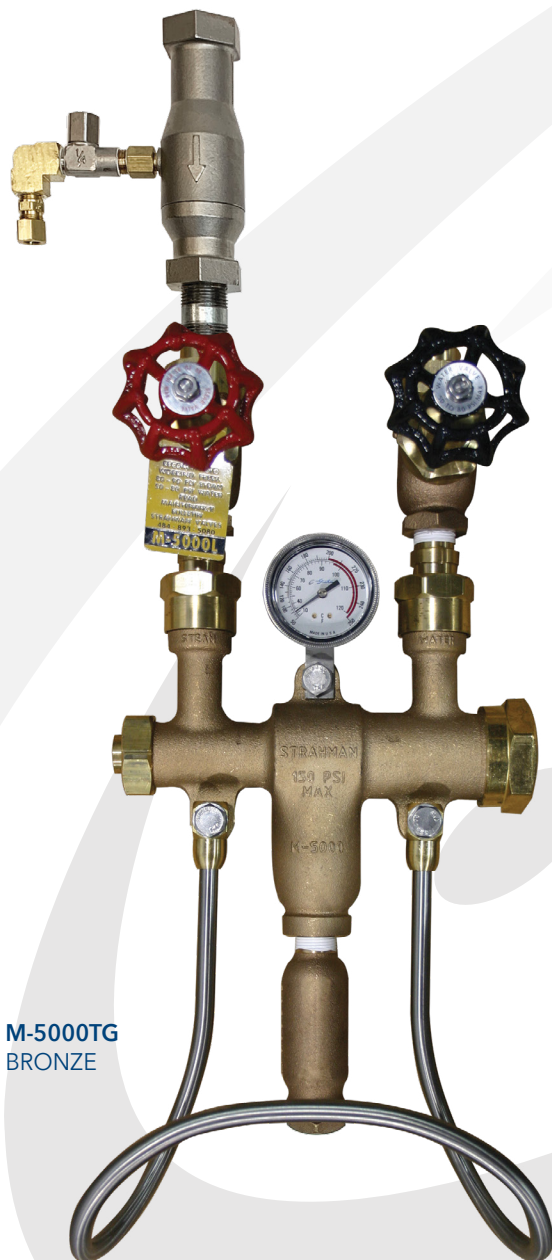


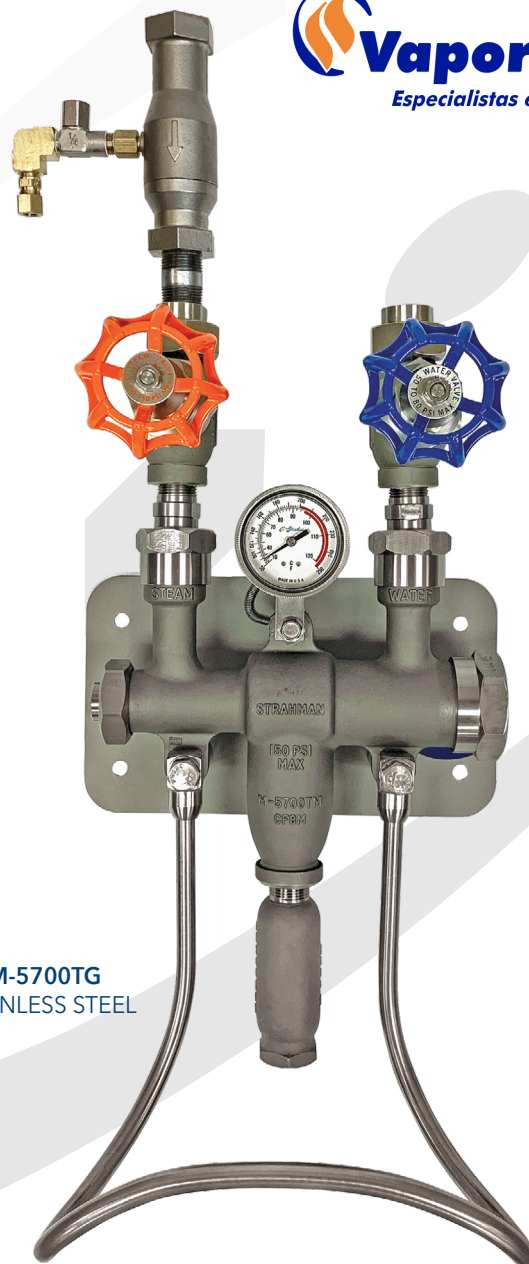


# M-5000TG & M-5700TG

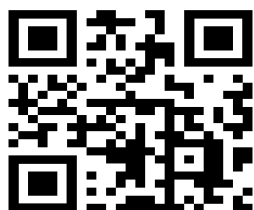
STEAM & COLD WATER MIXING UNIT  
INSTALLATIONS, OPERATIONS & MAINTENANCE



M-5000TG  
BRONZE



M-5700TG  
STAINLESS STEEL



*Stahman*  
WASHDOWN EQUIPMENT

## MAINTENANCE OF MODEL

# M-5000TG/5700TG

## STEAM AND COLD WATER MIXING UNIT

### M-5000TGTG, M-5700TGTG SERIES FOR STEAM AND COLD WATER

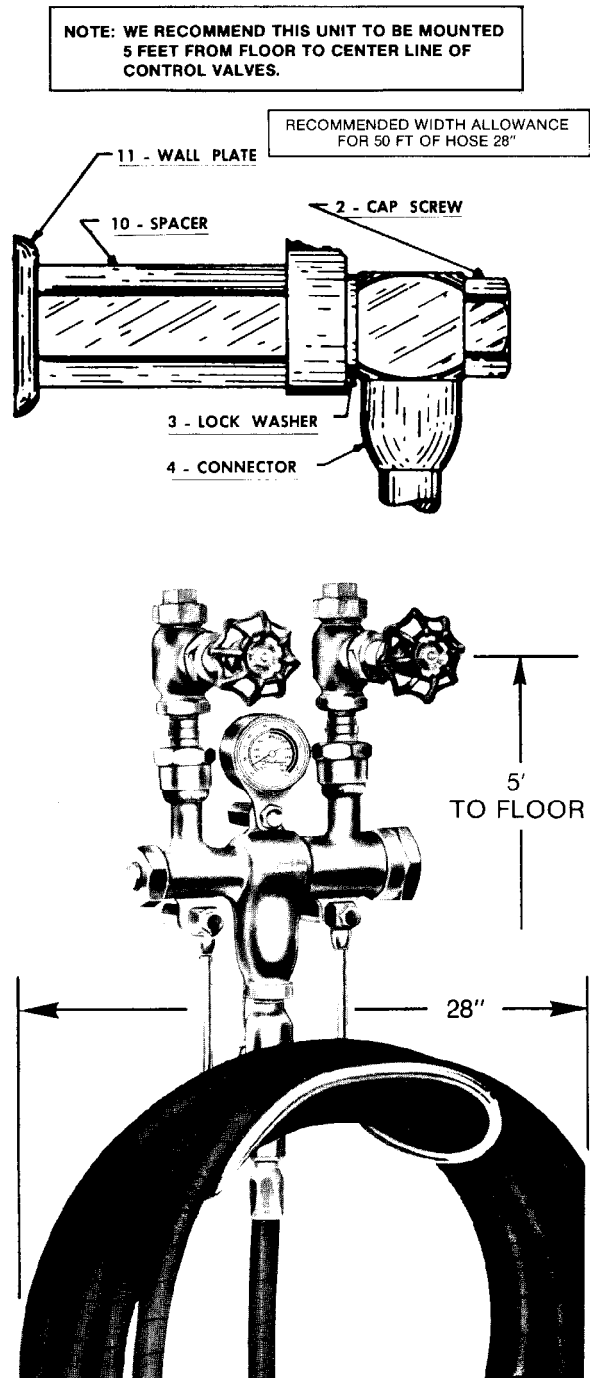
These units produce hot water instantly from a steady supply of steam and cold water. All mixing units-hose stations in the M-5000TGTG/M-5700TGTG series are equipped with a dial-type gauge that indicates the wash water's exact temperature. Users can easily regulate the temperature by turning the unit's steam and cold-water valves.

## INSTALLATION INSTRUCTIONS

Strahman Mixing Units are designed for wall mounting and are provided with necessary hexagonal spacers tapped for 3/8" bolts. They can be mounted on any type of wall by means of toggle bolts, expansion bolts or other conventional method—the only requirement being that from 5/8" to 1" of full thread be left projecting from the wall.

( See **Figure 1** )

1. Using the template provided on page 2, layout and install mounting studs in wall.
2. Slide Wall plate (Part No. 11) over stud and run on Hex Spacers (Part No. 10) and pull up snug.
3. Insert short Cap Screw (Part No. 2) through center mounting lug of unit and attach to corresponding spacer on wall, also through temperature gauge holder on M-5000 unit.
4. Complete assembly by inserting the two long Cap Screws (Part No. 2) through Hose Rack Connector (Part No. 4), Lock Washer (Part No. 3) and through mounting lugs on unit. Pull up all cap screws tight and the unit is ready for necessary pipe 3/4" NPT.  
**It is important that the lock washer (Part No. 3) is placed in the proper place as this insures rigidity of installation.**
5. Tighten the Ball Check Union Nuts (Part No. 12) after unit has been aligned and properly connected to the supply piping.



**Figure 1:** M-5000TG/M-5700TG Installation.

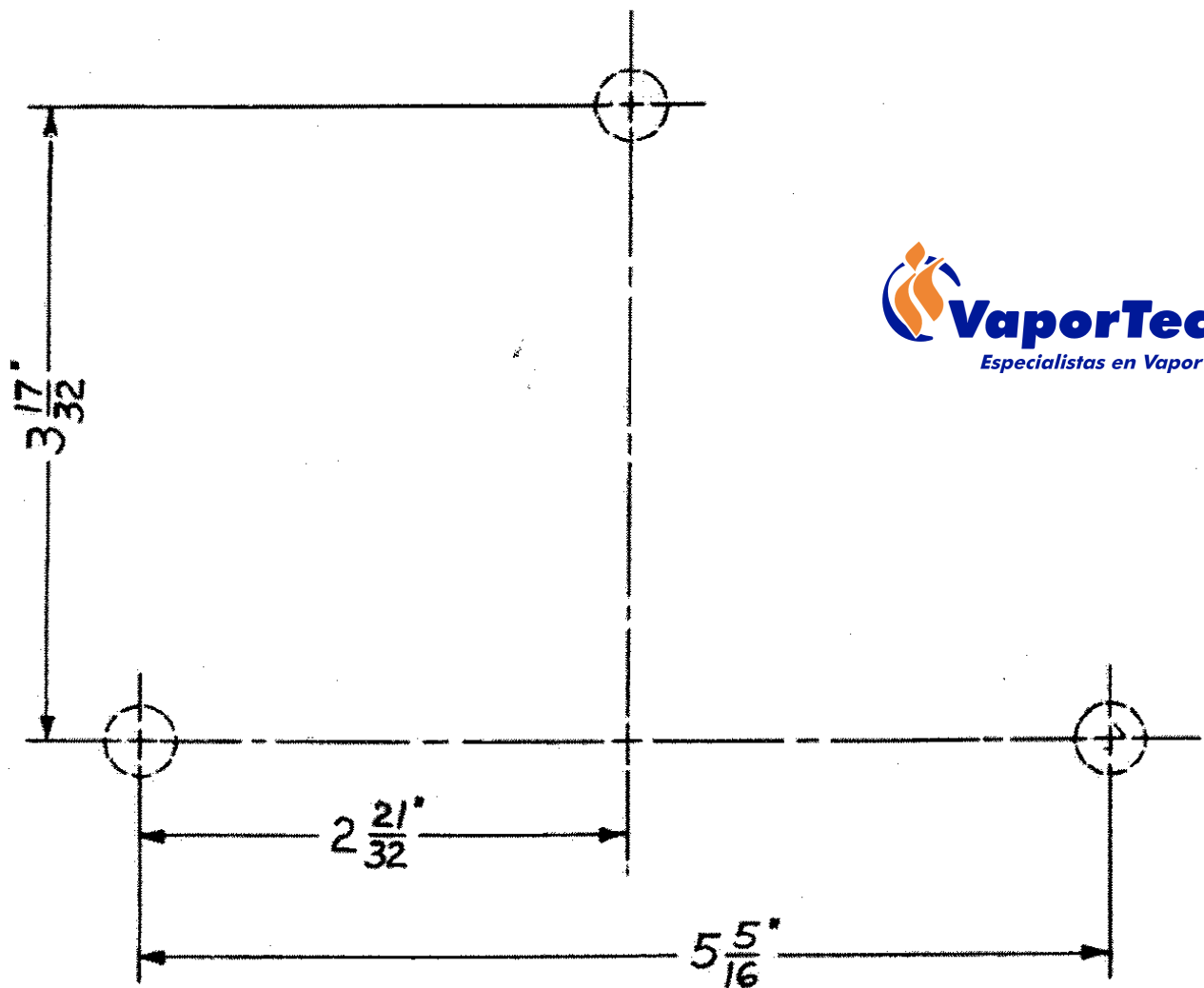
## INSTALLATION

# M-5000TG/5700TG

## STEAM AND COLD WATER MIXING UNIT

### TEMPLATE FOR MOUNTING M-5000 STRAHMAN INSTANT HOT WATER MAKER

THREE 3/8" STUDS N.C. - STUDS MUST STICK OUT 5/8" TO 1" FROM WALL.



NOTE: THESE UNITS HAVE HEX SPACERS ( PART NO. 10) AND LOCK WASHERS (PART NO. 3) ATTACHED. SPACER MUST BE DETACHED FOR MOUNTING. SPECIAL CARE IS ADVISED FOR THE CENTER SPACER WHICH HOLDS THE TEMPERATURE GAUGE IN PLACE.

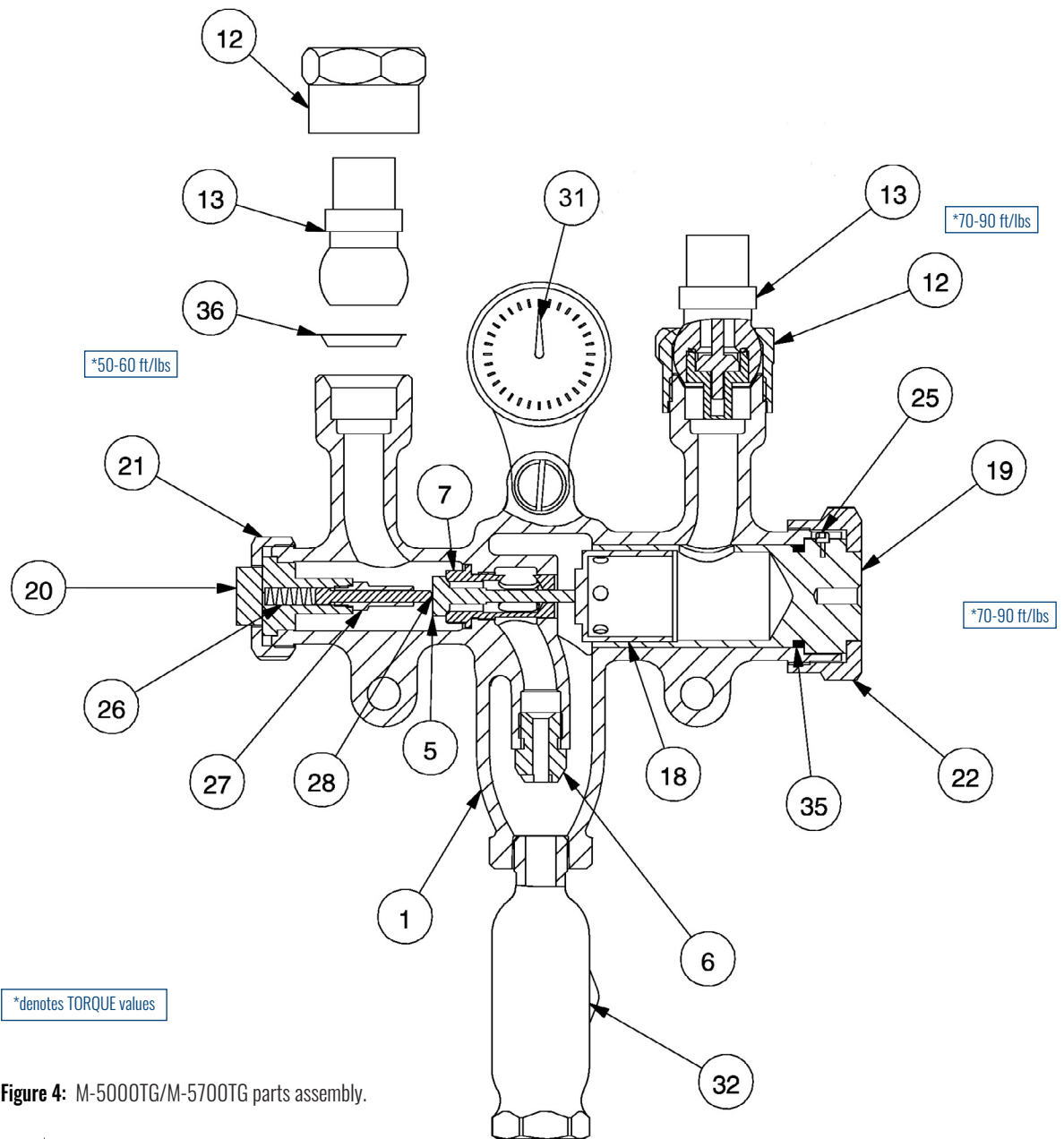
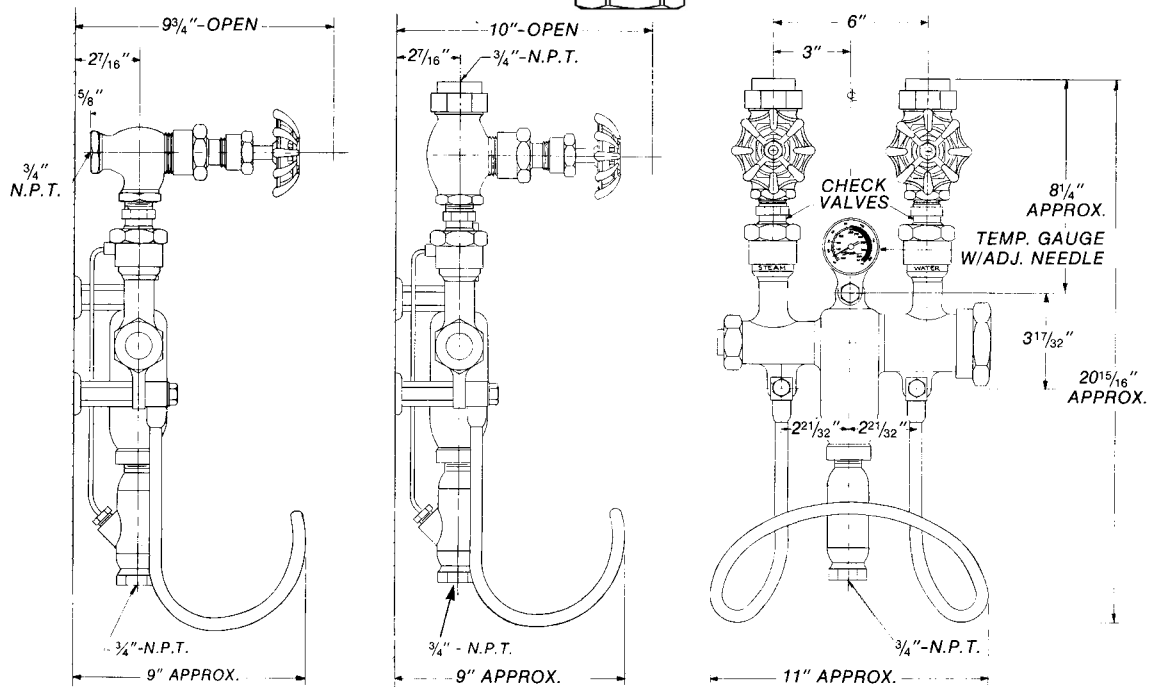


Figure 4: M-5000TG/M-5700TG parts assembly.

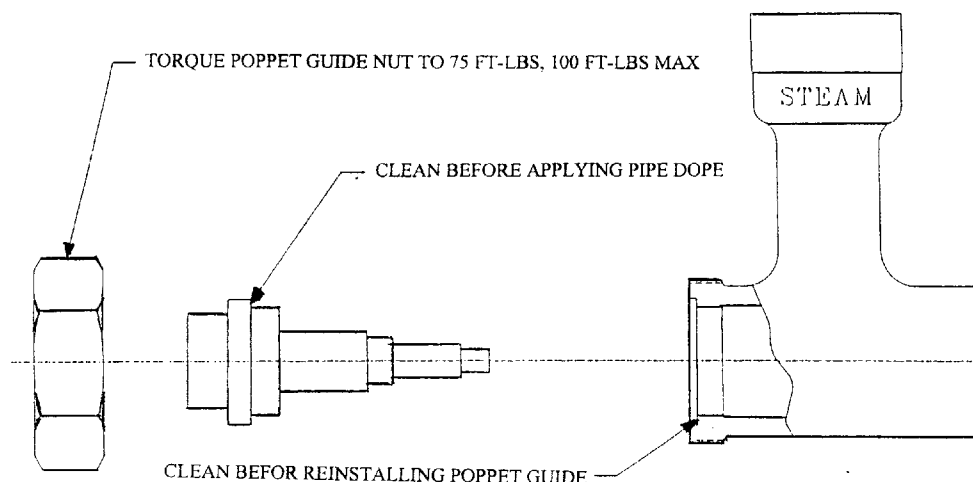


Note: Front view shown with Globe Valves.

| PARTS    |  |   |  |          |  |  |   |
|----------|--|---|--|----------|--|--|---|
| PART NO. | PART   | M-5000 ORDER NO. (MATERIAL)   | M-5700 ORDER NO. (MATERIAL)  | PART NO. | PART                                       | M-5000 ORDER NO. (MATERIAL)  | M-5700 ORDER NO. (MATERIAL)                 |
| 1        | BODY (INCLUDES PARTS 6 AND 7)                            | M500BODYCKIT (ASTM C836)  | M708BDF (SST316, ASTM A314)  | 19       | WATER CHAMBER HOUSING (INCLUDES PART 35)   | WCHHOUSASSYBR (BRASS B16, C36000)                                      | WCHHOUSASSYSS (SST304, ASTM A276)           |
| 2        | HOSE RACK CAP SCREW (NOT SHOWN) (SET OF 6)               | HH00501302000Z (SST304, ASTM A276)  | HH00501302000Z (SST304, ASTM A276)   | 20       | POPPET GUIDE                               | M5000PGUIBR (BRASS ASTM B16, C36000, SST303, ASTM A582, EPDM "O" RING) | M570PGUI (SST304, ASTM A276, EPDM "O" RING) |
| 3        | HOSE RACK LOCK WASHER (NOT SHOWN) (SET OF 6)             | WAT0050 (SST410)  | WAT0050 (SST410)   | 21       | POPPET GUIDE NUT                           | M500PNUTBR (BRASS B283, CA37700)                                       | M570PNUT (SST303, ASTM A582)                |
| 5*       | STEAM POPPET (L)<br>STEAM POPPET (M)<br>STEAM POPPET (H) | MU500POPTCOMPLETE0000<br>MU500POPTCOMPLETE0001<br>MU500POPTCOMPLETE0002 (SST303, ASTM A743) | MU500POPCOMPLETE0000<br>MU500POPTCOMPLETE0001<br>MU500POPTCOMPLETE0002 (SST303, ASTM A743) | 22       | BODY NUT                                   | M500BNUTBR (BRASS B283, CA37700)                                       | M570BNUT (SST316, ASTM A276)                |
| 6        | STEAM JET  | SJET (SST416, ASTM A582)  | SJET (SST416, ASTM A582)   | 25       | SOCKET HEAD SET SCREW (SET OF 6)           | SHN83200310Z (SST304, ASTM A276)                                       | SHN83200310Z (SST304, ASTM A276)            |
| 7        | POPPET SEAT  | PSEATBR (BRASS ASTM C46400)   | PSEATSS (SST303, ASTM A582)  | 26       | POPPET SPRING (SET OF 6)                   | SPRGM5000 (SST302, ASTM A240)  | SPRGM5000 (SST302, ASTM A240)               |
| 8        | HOSE RACK (NOT SHOWN) WITH FITTINGS                      | HRCOMLETE0000 (SST304, ASTM A276)   | HRCOMLETE0000 (SST304, ASTM A276)  | 27       | GUIDE EXTENSION                            | M500PGEX (SST416, ASTM A 582)  | M500PGEX (SST416, ASTM A 582)               |
| 10       | HEX SPACER (NOT SHOWN)                                   | MUSPAC (SST416, ASTM A582)  | MUSPAC (SST416, ASTM A582)   | 28       | PUSHER                                     | M500PPSH (SST303, ASTM A582)   | M500PPSH (SST303, ASTM A582)                |
| 11       | WALL PLATE (NOT SHOWN) (OPTIONAL)                        | MUWPLTBR (BRASS B16, CA360)   | THIS IS STANDARD ON THIS UNIT (SST304, ASTM A240)  | 31**     | TEMP GAUGE                                 | TG6F02 (BRASS B283, CA37700)   | TG6F02 (BRASS B283, CA37700)                |
| 12       | BALL CHECK UNION NUT                                     | BCNUTBR (BRASS ASTM B16 C36000)   | BCNUTSS (SST304, ASTM A276)  | 32       | BLENDING CHAMBER                           | BLCHMFB (BRASS, BRONZE B62, CH83600)                                   | BLCHMFSS (SST303, ASTM A351)                |
| 13       | BALL CHECK VALVES (INCLUDES PART 36) COMPLETE            | BCBRG (BRASS ASTM B16, C36000, SST303, ASTM A582)   | BCSSG (SST304, ASTM A276, SST303, ASTM A582)   | 35       | "O" SEALING RING FOR WATER CHAMBER HOUSING | ORNG222HB (EPDM)   | ORNG222HB (EPDM)                            |
| 18       | WATER CHAMBER  | WCHM5000 (SST303, ASTM A582)  | WCHM5000 (SST303, ASTM A582)   | 36       | BALL CHECK GASKET                          | BCGAC (COPPER)   | BCGA (COPPER, PTFE)                         |

**NOTE:** If leakage occurs at the poppet guide assembly, immediately turn off both control valves. Relieve any pressure in the unit by opening the spray nozzle. Allow the unit to cool down before removing the poppet guide nut. Remove poppet guide nut and poppet guide assembly (See Figure 4). Clean the area where the poppet guide seats in the M-5000TG body. Clean the seating area of the poppet guide and apply pipe dope. Reinstall the poppet guide assembly and poppet guide nut. Torque the poppet guide nut to 70 ft-lbs. Do not exceed 90 ft-lbs.

Follow this procedure whenever the poppet guide assembly is removed.



**Figure 5:** M-5000TG/M-5700TG poppet guide seat assembly.

OPERATING INSTRUCTIONS

Follow your company safety precautions during mixing unit operation.

To turn on the M-5000TGTG/M-5700TGTG, follow the steps listed below:

- 1. Strahman recommends steam traps are installed and functioning properly.
- 2. Turn on the cold water valve, located on the right side of the unit, counter clockwise. (see Fig. 2)
- 3. Squeeze spray nozzle until you get full water flow.
- 4. Slowly turn on the steam valve, located on the left side of the unit, counter clockwise until you reach the desired water temperature outlet.
- 5. If the unit will be idled for a long period of time the unit, along with the hose, should be drained. This will help avoid a build-up of deposits. The hose should be stored on the hose rack when not in use.

See Table 1 for easy control valves identification.

NOTE: If you do not get the desired water temperature outlet, turn the water valve handle clockwise until you reach the desire temperature.

To turn M-5000TGTG/M-5700TGTG off, follow the steps listed below:

- 1. Shut off the steam valve completely.
- 2. Shut off the water valve completely.
- 3. Relieve any pressure in the unit by opening the spray nozzle.

CAUTION: If internal pressure is not relieved when shutting the unit off, steam will come out at the spray nozzle when first open. Shut M-5000TGTG/M-5700TGTG down when unit is not being used.

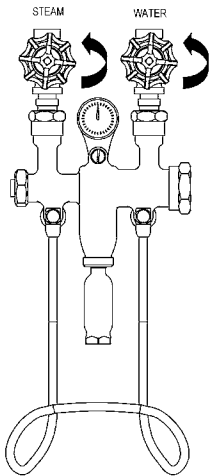


Figure 2:

Turn control valves counter clockwise to turn M-5000TGTG/M-5700TGTG on.

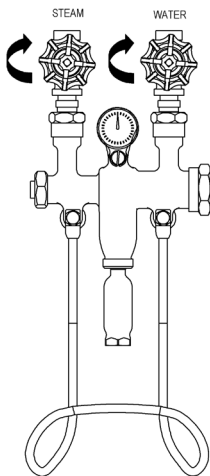


Figure 3:

Turn Off control valves clockwise to turn M-5000TGTG/M-5700TGTG.

If unit is not shut down the steam will boil the water in the unit and cause steam to come from nozzle when first turned on.

|          | COLOR  |       |
|----------|--------|-------|
|          | STEAM  | WATER |
| M-5000TG | RED    | BLACK |
| M-5700TG | ORANGE | BLUE  |

Table 1: Control Valves Color Identification

For more information, please contact your Strahman representative.

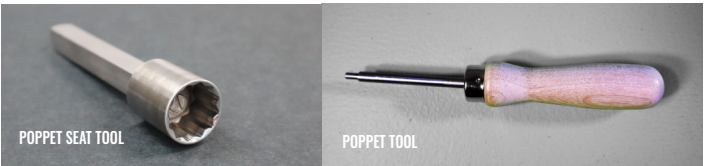
MAINTENANCE INSTRUCTIONS

The Strahman Instant Hot Water Maker must be maintained properly in order to get the best results. The steam passing through the unit is controlled by a steam poppet (Part 5), which should be replaced as soon as it becomes worn. This can easily be done by following the steps below.

- 1. First close the control valves and allow the unit to cool.
- 2. Then remove the poppet guide nut (Part 21) on the left side of the unit.
- 3. Remove the poppet guide assembly (Parts 20, 26, 27, and 28). The assembly should easily slide out of the unit with little effort.
- 4. The poppet can now be removed using the poppet tool. To remove poppet (Part 5), insert poppet tool in the hole at the end of the poppet and lift tool while retracting. [Assemble in reverse order.]
- 5. Note the number of rings and replace with a poppet from the kit which has the same number of rings.
- 6. The new poppet can now be installed using the same tool, guide assembly, and guide nut being careful not to overtighten (see TORQUE values in Fig. 5).
- 7. The unit is now ready for use.

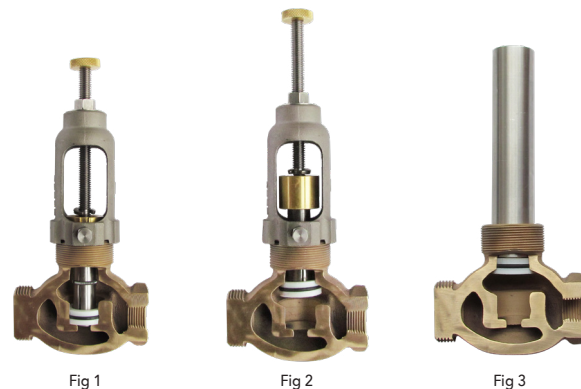
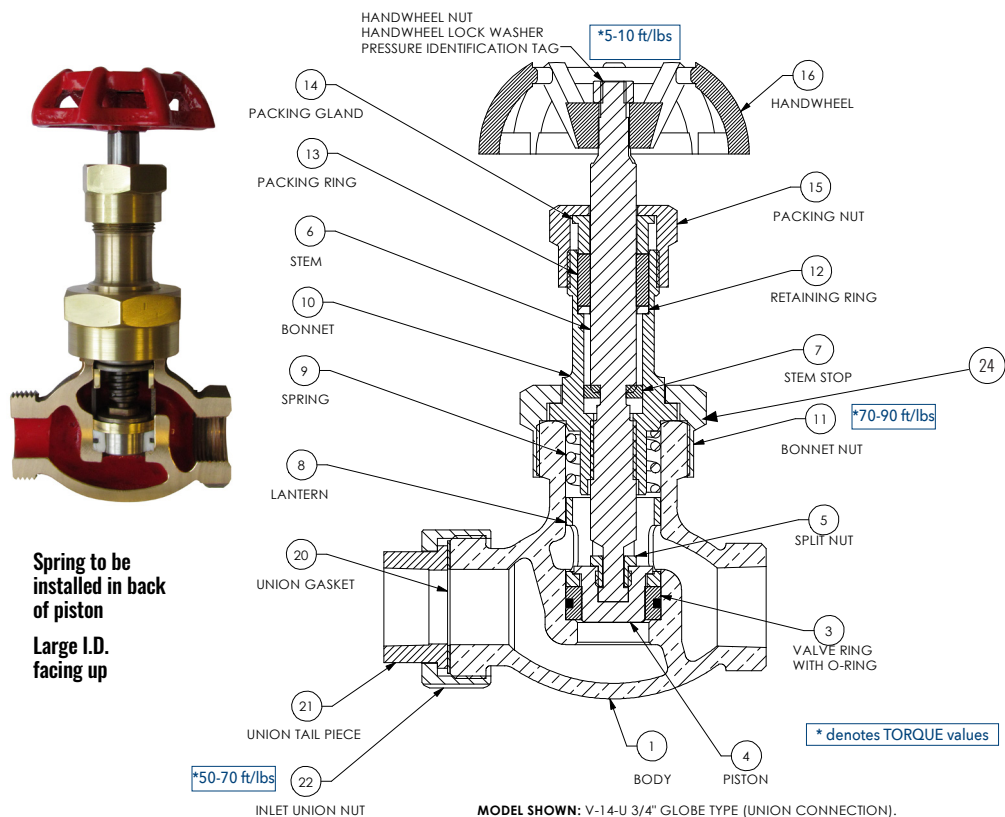


- In extremely severe cases it may be necessary to replace the poppet seat, (7). This can be done with the poppet and guide assembly removed as in the previous steps.
- 8. Use the Poppet seat tool.
  - 9. Insert tool and turn counter clock-wise to loosen and remove the poppet seat.
  - 10. Reinstall the poppet seat by turning the seat tool in clock-wise until snug.



# GLOBE VALVE

| PARTS FOR BRONZE UNIT          |  |                     |
|--------------------------------|--|---------------------|
| ITEM                           | PART                                     | PRODUCT CODE        |
| 1                              | BODY GLOBE SCREWED ENDS                  | GVBDPCPS            |
| 1                              | BODY GLOBE UNION TYPE                    | GVEBDFB             |
| 3                              | VALVE RING WITH O-RING Elas./ PTFE       | GVRING              |
| 4                              | PISTON (includes Item 5) 316 SST         | GVPISTSPLITASSY     |
| 5                              | SPLIT NUT (LEFT HAND THREAD) 316 SST     | GVSPITNUT           |
| 6                              | STEM (includes Item 7) 416 SST           | MUSTEMKIT           |
| 7                              | STEM STOP (set of 6) 304 SST             | GVSSTP              |
| 8                              | LANTERN Brass                            | GVLANTR             |
| 9                              | SPRING (set of 6) 302 SST                | SPRG8027S           |
| 10                             | BONNET ASSEMBLY Bronze                   | GVBNS               |
| 11                             | BONNET NUT Brass                         | GVBNNUTB            |
| 12                             | RETAINING RING (set of 6) 302 SST        | GVRING              |
| 13                             | PACKING RING (3 pc. Virgin PTFE)         | GVPACKCHEV          |
| 14                             | PACKING GLAND                            | GVGLBR              |
| 15                             | PACKING NUT Brass                        | GVPNUTBR            |
| 16                             | BLACK HAND WHEEL Cast Iron               | GVHWFBLACK          |
| 16                             | RED HAND WHEEL Cast Iron                 | GVEHWFR             |
| 17                             | HAND WHEEL NUT (set of 6) 303 SST        | GVLNUTSS            |
| 20                             | UNION GASKET (set of 6) Virgin PTFE      | GVGA                |
| 21                             | UNION TAIL PIECE Brass                   | GVUTAILBR           |
| 22                             | INLET UNION NUT Brass                    | GVUNUTBR            |
| 23                             | ANGLE RECESSED GASKET Garlock            | RECGA               |
| PARTS FOR STAINLESS STEEL UNIT |  |                     |
| 1                              | BODY GLOBE UNION TYPE 316 SST            | GVBDFFS             |
| 1                              | BODY GLOBE ANGLE TYPE 316 SST            | AVBDFSS             |
| 8                              | LANTERN 304 SST                          | GVLANSS             |
| 10                             | BONNET ASSEMBLY 303 SST                  | GVBNS               |
| 11                             | BONNET NUT 303 SST                       | GVBNNUTS            |
| 14                             | PACKING GLAND 303 SST                    | GVGLSS              |
| 15                             | PACKING NUT 303 SST                      | GVPNUTSS            |
| 16                             | BLUE HAND WHEEL Cast Iron                | GVHWFBLUE           |
| 16                             | ORANGE HAND WHEEL Cast Iron              | GVEHWFO             |
| 20                             | UNION GASKET SPIRAL WOUND (set of 6) SST | GAS-W015001000063MA |
| 21                             | UNION TAIL PIECE 303 SST                 | GVUTAILSS           |
| 22                             | INLET UNION NUT 303 SST                  | GVUNUTSS            |
| 24                             | GLOBE VALVE GASKET Bonn/ Body SST        | GVBNGA              |
| OPTIONAL TOOLS                 |  |                     |
| -                              | VALVE PULLER                             | GVPUILLER           |
| -                              | VALVE SEATER                             | GVSEATER            |



## Extracting Valve Ring

1. Remove Bonnet (11) and Stem Assembly (6) by opening valve to wide open position and removing Bonnet Nut (11) and working assembly free of body.
2. Insert Pulling Tool into ring pocket making sure that puller housing is located evenly on neck of valve body. Slotted cap 'A' should rest on Lantern (8) as shown in Fig. 1. Rotate until pin 'B' can be pressed into slot and hold while knurled nut 'C' counter clockwise until refusal.
3. With an adjustable wrench, turn hex nut 'D' in a clockwise direction until internal parts are fully extracted, as shown in Fig. 2.
4. Spin hex nut all the way back on so that withdrawn parts can be fully extended from puller housing, then turn knurled nut 'C' clockwise which will release parts from puller.

## To Insert New Valve Ring

1. Place Valve Ring (3), including O-ring, on Ring Seater tool as shown in Fig. 3 and drive into valve body as far as it will go keeping Ring Seater as straight as possible.
2. Drop Lantern (8) into body with large I.D. and wider band facing up making sure Lantern (8) sits evenly on ring.
3. Before installing Bonnet Assembly (10) into body, fully retract stem making sure spring is located between back of Piston (4) and Bonnet (10). Install into body. Tighten down Bonnet Nut (11) until refusal.

**Note:** When installing new spring, Split Nut (5), Piston (4) must be disassembled from Stem (6). Install new spring over stem against Bonnet (10). Reassemble Split Nut (5) and Piston (4). Hold spring against Bonnet (10).  
**Precautions:** Make sure ring pocket is free of scale, rust or other obstruction before replacing valve ring. Make sure parts are replaced in same order as removed. Base ring no longer necessary (older valves only).



Buscar



Contacto

Tienda

CALDERA ▾

SOLUCIONES EN VAPOR ▾

VÁLVULAS DE CONTROL ▾

HIGIENE INDUSTRIAL ▾

MEDICIÓN ▾

VÁLVULAS INDUSTRIALES ▾

SERVICIOS ▾

APRENDE

BIENVENIDOS A VAPORTEC

Proveedor **industrial en Venezuela y Miami**,  
especializado en suministros para el sistema  
de vapor y el control de fluidos. Más de 25 años  
A todo Vapor ....



Chatea con nosotros!



## VAPORTEC CA

Zona Industrial Municipal Norte, Av. Este - Oeste, Centro Funval, Local N° 8, Valencia, Venezuela.  
Cel & WhatsApp +58424 434 5529 / +58414 4973013

Correo

[ventas@vpica.com](mailto:ventas@vpica.com)

web

[www.vpica.com](http://www.vpica.com)

Oficina USA

## VAPORTEC FLUID CONTROLS, LLC.

8200 NW 41 St Suite 200 Miami, FL 33166.

Oficina Principal

+1305 831 2618

Cel +1786 678 5559

Correo

[sales@vaportec-corp.com](mailto:sales@vaportec-corp.com)

Web: [www.vaportec-corp.com](http://www.vaportec-corp.com)