



IMPORTANT INFORMATION FOR O/P R97"qt'O/P RN97 HYDRANTS

NO DRAIN IS NEEDED

No leach, sanitary or French drain is required to install this hydrant, as it is a sealed non-cross connected water delivery system. All water is held in a chamber below the frost line.

PURGE SUPPLY LINES OF CONTAMINANTS BEFORE CONNECTING TO THE HYDRANT

Be sure you have flushed your supply line leading to the hydrant, as debris will hold the valve mechanism in the open position. Make the hydrant the LAST item to be connected in any new water system.

POSSIBLE WATER REMOVAL

Failure of the valve or piston mechanism due to debris or lack of regular service will require the removal of standing water that could be above the piston. In addition, the valve itself will need to be removed and serviced. Letting water remain above the piston in freezing temperatures may cause substantial damage to the hydrant or cause a hydrostatic lock to occur.

READ THE ATTACHED MAINTENANCE SHEET

This is a service/maintenance sheet that will also indicate installation instructions for the NP/NPL-75 hydrant. With the exception of the water connection, your hydrant is fully serviceable from above grade.

SERVICE VALVE TOOL

When the valve needs to be serviced, a bottom valve service tool may be obtained from our shop for purchase or loaned with a deposit.

WARRANTY

Warranty on this hydrant is considered null and void if damage occurs due to debris in supply line; misuse or other unauthorized attempts to make hydrant work correctly. The hydrants MUST always be properly shut off in freezing weather or extensive damage that could occur is also not covered under this warranty.

L1T00005
Revised 2/2014

MURDOCK MANUFACTURING :: P.O. BOX 3527 :: CITY OF INDUSTRY, CA 91744 U.S.A.
PH. 800-453-7465 :: 626-333-2543 :: FAX 626-855-4860 :: www.murdockmfg.com
Member of Morris Group International



O-RING REPLACEMENT INSTRUCTIONS

HQT HYDRANT MODELS O/P R97 qt O/P RN97

* [gctn { 'Tgr ægo gpv'ku'Tgeqo o gpf gf +

TOOLS NEEDED:

- ✓ 1/2", 9/16", 3/4" and 1" open-end wrenches
- ✓ 5/32" and 3/32" allen wrenches
- ✓ 1" socket and ratchet
- ✓ Main valve wrench (available through Murdock-Super Secur)
- ✓ Small straight screwdriver to remove o-rings
- ✓ Teflon tape

INSTRUCTIONS:

1. Turn off water.
2. Put operating handle in halfway open position (NPL model).
3. Remove 5 allen-head screws (NPL model).
4. Remove cam cover and take one of the allen screws and remove stainless steel pin that holds linkage (NPL model).
5. Remove the 2 bolts that hold top cap on.
6. Remove top cap.
7. Remove nozzle and slide.
8. **HOLD LINKAGE AND PULL THE OPERATING ROD AND PISTON OUT. DO NOT ALLOW LINKAGE TO ROTATE, AS THIS WILL DAMAGE ADJUSTMENT FOR PROPER WATER FLOW – NOTE LINKAGE ADJUSTMENT BELOW.**
9. Remove bottom valve with wrench (available through Murdock-Super Secur).
10. The piston spring is compressed to a certain length, take note of that length. Measure and reassemble to same length for replacement.
11. All o-rings are visible except one that is located in the center of the piston. Use a 1" open-end wrench and a 1" socket to disassemble piston and replace inner o-ring.
12. Use hydrant wrench and 1" socket to disassemble main valve and replace tapered gasket and o-ring.
13. Use **o-ring grease** supplied with kit when reassembling.
14. If servicing NPL model, you will have 2 o-rings left.
15. Reverse sequence to reassemble.
16. See linkage adjustment instructions for NPL model.

LINKAGE ADJUSTMENT NPL MODEL:

- A. Adjust linkage as short as possible.
- B. Make small adjustments to lengthen linkage while moving handle to open then closed position.
- C. When handle just barely **doesn't** hit top cap stop, shorten linkage until it does. Now shorten linkage another 1/4 turn on 1/2" nut.
- D. Lock down linkage with locknut.
- E. Put cam cover on with 2 of the 5 screws.
- F. Try operating hydrant. If it operates smoothly, screw in other 3 screws. If not, disassemble and readjust as indicated above.
- G. **NEVER FORCE HANDLE IN OPEN POSITION.**