



TOOL BOX 021- Inspection / Servicing of Hydrant Hose

SAFETY

When visually inspecting the hose and couplings under pressure, always walk at least 4.5 metres to side of the hoseline, facing the free end, with the Shut Off Nozzle attached / pressure source behind you. While testing the hose, never stand in front of the free end of the hose, straddle the hose, or walk closer than 4.5 metres side of the hose (facing the free end).

Visual Hose, Nozzle, and Coupling Inspection

Annually and after each use In-service hose shall be unrolled and physically inspected to determine that the hose, couplings, and any nozzle have not been vandalized, are free of debris, and exhibit no evidence of mildew, rot, or damage by chemicals, burns, cuts, abrasion, vermin, and bindings are secure/rust free. Ensure nozzle controls and adjustments operate properly. Inspect lip seals for presence, tight fit, and deterioration, and couplings for damage, corrosion, rotation, etc.

- The test gauge that is used to read the test pressure shall have been calibrated within the previous 12 months.
- A hose test valve consisting of a hydrant gate valve with a ¼-in. opening drilled through the gate and designed to withstand the service test pressures shall be used between the pump and the hose test layout.
- The test layout shall be connected to the hose test valve and not exceed 300 feet.
 - ✓ The hose test valve shall not be attached to any discharge outlet at or adjacent to the pump operator's position.
 - ✓ The hose test valve end of the hose line shall be secured with a belt tie-in or rope hose tool at a point 10 in. to 15 in. from the coupling.
 - ✓ A test cap with a bleeder valve shall be attached to the far end of each hose line in the test layout. If a test cap is not available, a nozzle with a non-twist shutoff shall be permitted to be used.
 - ✓ With the hose test valve open and the test cap valve or nozzle open, the pressure shall be gradually raised to 45-50 psi.
 - ✓ After the hose test layout is full of water, all air in each hose line shall be exhausted by raising the discharge end of each hose line above the highest point in the system.



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WARNING: Take care to remove all air from the hose before the valve in the test cap or the nozzle is closed and the pressure raised. The development of test pressures introduces a serious accident potential if air remains in the system.

- ✓ The nozzle or test cap valve shall be closed slowly, and then the hose test valve shall be closed.
- ✓ The hose directly in back of the test cap or the nozzle shall be secured to avoid possible whipping or other uncontrolled reactions in the event of a hose burst.
- ✓ With the hose at 45 psi ± 5 psi it shall be checked for leakage at each coupling and the couplings tightened with a spanner wrench where necessary.
- ✓ Each hose shall then be marked at the end or back of each coupling to determine, after the hose has been drained, if the coupling has slipped during the test.
- ✓ All personnel other than those persons required to perform the remainder of the procedure shall clear the area.

Presented By: Name: _____	Date _____	Signature _____
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