



Fire Protection Training

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

TOPIC: How To Make Four-Way Hydrant Valve Connection - Unsupported

TIME FRAME: 1 Hour

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A fire engine equipped with a preconnected four-way hydrant valve, a hydrant, a hydrant wrench, and 300' of 2 1/2 inch hose

Behavior: The student will connect a four-way hydrant valve to a hydrant and supply an engine with water at hydrant pressure under simulated fire conditions.

Standard: With a minimum of 70% accuracy within 60 seconds

MATERIALS NEEDED:

- Stop watch
- Performance examination
- Fire engine equipped with preconnected four-way valve
- 300' of 2 1/2 inch hose
- Hydrant wrench

REFERENCES:

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10

PREPARATION:

The four-way hydrant valve allows an engine company to quickly get a line into operation with the option of subsequently using an engine to increase the pressure without interrupting the flow of water to the nozzle.



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HOW TO MAKE FOUR-WAY HYDRANT
VALVE CONNECTION-UNSUPPORTED

OPERATIONS

KEY POINTS

1. Remove preconnected four-way hydrant valve, adapters and hydrant wrench
2. Advance four-way valve to hydrant
3. Anchor line
4. Give command "Lay line"
5. Remove 4-1/2" hydrant cap
6. Flush Hydrant
7. Attach four-way valve
8. Open hydrant

- 1a. From engine
- b. Valve is heavy
- c. Lift with legs, not back
- d. Facing direction of travel when pulling hose
- 2a. With sufficient amount of hose
- 3a. At a fold
- b. Both hands
- c. By edges
- d. Thumbs up
- e. Do Not straddle hose
- f. All hose, appliances, etc., attached to engine must be between the engine and the anchor point
- 4a. Operator via mirror
- b. Shout loudly
- c. 5 - 12 MPH Ground hose when third coupling strikes ground
- 5a. Counter-clockwise
- 6a. To remove debris
- b. Close slowly
- 7a. Hand tighten
- b. Clockwise
- c. Four-way valves in proper position
- 8a. At signal
- b. All the way
- c. Slowly
- d. Indicate water flowing



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APPLICATION:

Student shall practice until proficient.

EVALUATION:

A performance examination.

ASSIGNMENT:

To be determined by instructor(s).

Performance Examination

HOW TO MAKE FOUR-WAY HYDRANT
VALVE CONNECTION-UNSUPPORTED

POINTS

TIME START

- | | | |
|----|--|-----------|
| 1. | Grasp preconnected four-way valve and attached 2 1/2" hose and pull from hose bed facing direction of travel. | <u>10</u> |
| 2. | Pull sufficient line to advance to hydrant. | <u>10</u> |
| 3. | Remove hydrant wrench, necessary adapters and equipment from the engine and place them to rear of the tailboard. (Must be done prior to engine's leaving.) | <u>15</u> |
| 4. | Anchor the supply line at a fold, by the edges with both hands, thumbs up. | <u>15</u> |
| 5. | Give the command "Lay line" loudly while visible in operator's mirror. | <u>10</u> |
| 6. | As third coupling strikes ground return to the hydrant and remove 4 1/2" hydrant cap. | <u>10</u> |
| 7. | Flush hydrant opening and closing valves slowly. | <u>10</u> |
| 8. | Attach four-way valve hand tight. | <u>10</u> |
| 9. | Open hydrant fully and shout "Water coming". | <u>10</u> |

TIME STOP

ENTER TOTAL TIME: _____:

POINTS POSSIBLE: 100

POINTS DEDUCTED:

FINAL SCORE:

4309.19

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Performance Examination

HOW TO MAKE FOUR-WAY HYDRANT
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EVALUATOR'S SIGNATURE:

DATE:

COMMENTS:
