



# Fire Protection Training

Procedures Handbook 4300

HOSE APPLIANCES & TOOLS

**TOPIC:** Features Of Fire Service Wyes

**TIME FRAME:** 30 Minutes

**LEVEL OF INSTRUCTION:**

**BEHAVIORAL OBJECTIVE:**

*Condition:* A written quiz

*Behavior:* The student will be able to identify the distinguishing features of fire service wyes.

*Standard:* With a minimum of 70% accuracy

**MATERIALS NEEDED:**

- Example of wyes
- Chalkboard and chalk
- Appropriate visual aids
- Audio visual equipment

**REFERENCES:**

- IFSTA, Essentials of Fire Fighting, 2nd Edition, Chapter 10
- IFSTA, Hose Practices, 7th Edition Chapter 3

**PREPARATION:**

Many times on the fireground it becomes necessary to divide one line into two. Wyes are the components that allow us to achieve these evolutions. All fire fighters should be familiar with the use of this appliance.



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## FEATURES OF FIRE SERVICE WYES

PRESENTATION	APPLICATION
<p><b>I. USES OF WYE APPLIANCES</b></p> <ul style="list-style-type: none"><li>A. Divide one line into two lines</li><li>B. Example<ul style="list-style-type: none"><li>1. Running a supply line to a designated point and dividing line into two attack lines</li><li>2. Running a supply line to a designated point and dividing line into two supply lines supplying two engines</li><li>3. Common sizes<ul style="list-style-type: none"><li>a. 2 1/2" x 1 1/2" x 1 1/2"</li><li>b. 1 1/2" x 1 1/2" x 1 1/2"</li></ul></li></ul></li></ul> <p><b>II. TYPES OF WYE APPLIANCES</b></p> <ul style="list-style-type: none"><li>A. Straight Wye<ul style="list-style-type: none"><li>1. Does not have a water direction flow control device</li><li>2. Must shut down operation to disconnect lines</li></ul></li><li>B. Gated Wye<ul style="list-style-type: none"><li>1. Has a water direction flow control device at each outlet which is manually operated</li><li>2. Allows apparatus to connect or disconnect without interrupting the pumping operation</li></ul></li></ul> <p><b>III. PARTS OF A WYE APPLIANCE</b></p> <ul style="list-style-type: none"><li>A. Inlet (Supply) Connection<ul style="list-style-type: none"><li>1. Gated or</li><li>2. Ungated</li></ul></li></ul>	



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PRESENTATION	APPLICATION
<ul style="list-style-type: none"><li>3. One female coupling</li><li>B. Outlet (Discharge) Connection<ul style="list-style-type: none"><li>1. Gated</li><li>2. Two male couplings</li></ul></li><li>C. Body<ul style="list-style-type: none"><li>1. The housing which<ul style="list-style-type: none"><li>a. Serves to contain and direct water flow</li><li>b. Protects interior parts</li></ul></li></ul></li><li>D. Swivel<ul style="list-style-type: none"><li>1. On inlet (supply) connection</li></ul></li></ul>	
<p><b>IV. CARE AND MAINTENANCE</b></p> <ul style="list-style-type: none"><li>A. Gaskets<ul style="list-style-type: none"><li>1. Pliable</li><li>2. Good state of repair</li><li>3. In proper position</li></ul></li><li>B. Swivels<ul style="list-style-type: none"><li>1. Free spinning<ul style="list-style-type: none"><li>a. If not<ul style="list-style-type: none"><li>(1) Wash in warm soapy water</li><li>(2) Apply dry lubricant (graphite)</li></ul></li><li>b. Need to use periodically</li></ul></li><li>2. Round</li></ul></li></ul>	



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PRESENTATION	APPLICATION
<ul style="list-style-type: none"><li>a. If run over or dropped may become oval shape</li><li>b. Repair or replace as needed</li></ul> <p>C. Threads</p> <ul style="list-style-type: none"><li>1. In good condition<ul style="list-style-type: none"><li>a. Free of<ul style="list-style-type: none"><li>(1) Nicks</li><li>(2) Burrs</li><li>(3) Tar</li><li>(4) Contamination and debris</li></ul></li><li>b. Repair or replace as necessary<ul style="list-style-type: none"><li>(1) Wash and brush with warm soapy water</li><li>(2) File off nicks or burrs</li></ul></li></ul></li></ul> <p>D. Body</p> <ul style="list-style-type: none"><li>1. Wash with brush and soapy water</li></ul> <p>E. Gate Valve</p> <ul style="list-style-type: none"><li>1. Exercise to ensure operation</li><li>2. Wash/immerse in warm soapy water</li></ul>	

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## ***SUMMARY:***

Wye appliances become an essential part of fireground evolutions when it is necessary to divide lines.

## ***EVALUATION:***

A written quiz.

## ***ASSIGNMENT:***

To be determined by instructor(s).