

# Hydraulic Online Training | Master Hydraulic Skills Using Virtual Trainers

Hydraulic Pump Troubleshooting - WX19126-AA01AEN-E1


Objective 8: Describe the Construction of Three Types of Pressure Test Points and Give an Application of Each

### Three Types of Pressure Test Points

To take pressure measurements, a pressure gauge is inserted in the hydraulic system using a tee of some type. This is called a test point.

There are three test point styles typically used to connect a pressure gauge to a hydraulic system to take a measurement during troubleshooting:

- Tee with Quick Connect
- Tee with 2-Way Valve
- Tee with Isolation Valve



Tee with Quick Connects

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## eLearning Course: N12240

The Hydraulics 1 Virtual Trainer Courseware (N12240) for the [Hydraulics 1 Learning System \(96-HYD1\)](#) introduces industry-relevant hydraulic online training skills while showing how they apply to fundamental hydraulic principles, such as pressure and flow; this signature Amatrol approach to curriculum reinforces both theory and practice to produce a well-rounded understanding of the topic. As an example, after completing this course, learners will not only understand concepts like flow rate versus cylinder speed and pressure versus cylinder force, but also be able to operate, install, design, and troubleshoot basic hydraulic circuits for various applications.

## Teach Hydraulics

### What is Hydraulics? What is Pneumatics? Is There a Difference?

All machines require some type of power source and a way of transmitting it to the point of operation. The three methods of transmitting power are: mechanical, electrical, and fluid. Fluid power is a method of using pressurized fluid to transmit energy. Although fluid is commonly thought of as a liquid, it is actually a liquid or a gas. Hence, there are two branches of fluid: pneumatics and hydraulics.

Pneumatic systems use air or other gases to perform work. Hydraulic systems, on the other hand, use oil or other liquids to perform work.

## Online Training

### Hydraulic Online Training Features World-Class Multimedia Curriculum

Amatrol's peerless interactive multimedia curriculum utilizes text with voiceovers, pictures, videos, stunning 3D animations, and interactive quizzes and reviews that engage learners in theoretical knowledge and concepts. This thorough, detailed curriculum begins with the basics and advances to complex concepts. Through partnerships with key industry leaders and leading educators, Amatrol developed the right balance of knowledge to train learners to work in their chosen field.

## **Virtual Training Systems Highlight Amatrol's Hydraulic Online Training**

Amatrol's virtual training systems combine interactive multimedia with virtual simulators to teach a wide range of technical skills. Amatrol's virtual simulators expertly replicate hands-on equipment with industrial realism and skill-building, mirroring the actual Amatrol training equipment, so that learners can perform the same tasks using virtual training systems that they would using Amatrol learning systems. Benefits of Amatrol's virtual training systems include reducing initial program startup costs, requiring less classroom space, and offering seamless integration with Amatrol's hardware systems if they are added in the future.

### **Additional Info**

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#### **Requires:**

- Computer: [See requirements](#)
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#### **Address**

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