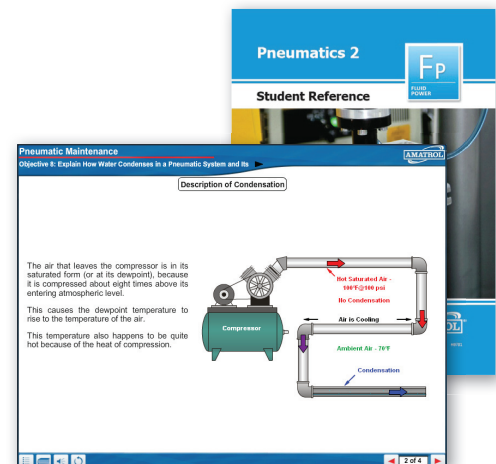


96-PNE2



Interactive Multimedia and Student Reference Guide

## Learning Topics:

- Pneumatic Directional-Control Valve Applications
- CAM Valves
- Externally-Piloted Valves
- Two-Way Valves
- Vacuum Systems
- Vacuum Gauges
- Vacuum Generators
- Air Logic
- Shuttle Valves
- Air Logic Design

Amatrol's Pneumatics 2 Learning System (96-PNE2) builds on basic pneumatic skills by introducing more advanced concepts such as air logic, ways to decelerate a pneumatic cylinder, and methods of representing vacuum pressure. Learners will have the opportunity to study these concepts while working with a hands-on training module, which enables practicing skills such as connecting and operating a two-way valve and designing a seal-in circuit. This approach of simultaneously teaching theory and practice reinforces each element and results in a thorough understanding of the topic.

The 96-PNE2 includes directional control valves, check valve, pneumatic cylinder, Venturi block, assorted filter elements, and much more. Amatrol's commitment to using top-flight, industry-standard materials ensures that learners work with components they'll actually see on the job. This attention to quality and detail culminates in a durable, attractive, user-friendly learning system that will last for years.

## Technical Data

Complete technical specifications available upon request.

Pushbutton Valve Assembly  
Venturi Block Assembly  
DCV Air Pilot-Operated Assembly  
Check Valve Assembly  
Load Cylinder Assembly  
Cam Valve Assembly #1, 3-way  
Cam-Operated Valve #2, 2-way  
Loose Component Storage Box  
Filter Elements: 5 micron, 20 micron, and 70 micron  
Synthetic Filter Element  
Coalescing Element (2)  
Impingement Device  
Patch Kit  
Safety Relief Valve  
Air Bearing  
Lubricator Assembly  
Air Hose – 4-ft., 1/8-in. (2)  
Air Hose – 1-ft., 1/16-in.  
Multimedia Curriculum (MB781)  
Instructor's Guide (CB781)  
Installation Guide (DB781)  
Student Reference Guide (HB781)

### Additional Requirements:

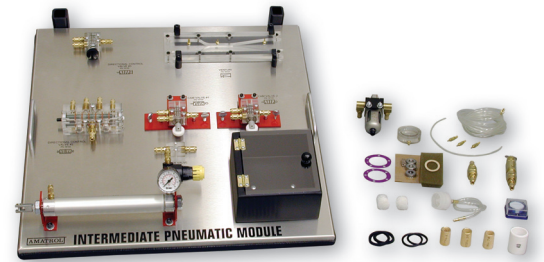
Pneumatics 1 Learning System (96-PNE1)  
Hand Tool Package (41221)

### Utilities:

Air: 2 CFM @ 100 PSIG/0.06 cmm @ 690 kPa

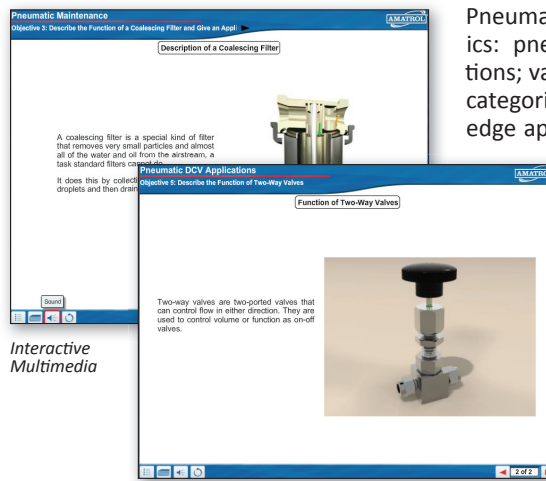
## Learn How Pneumatics is Used in Food Processing Plants and Oil Refineries

The 96-PNE2 covers how concepts and skills are applied in real-world environments including petroleum refineries and food processing plants. As two examples, the 96-PNE2 will explain how an externally air-piloted pneumatic directional control valve is implemented in a pneumatic punch press and why sliding plate spools are preferable to other spools in a cement plant. Other hands-on skills that learners will be able to practice include: connecting and operating a cylinder deceleration circuit using power braking.



96-PNE2

## Study the Operation and Functions of Pneumatic Components Via Stunning Interactive Multimedia Curriculum



Interactive Multimedia

Pneumatics 2's curriculum covers three main topics: pneumatic directional-control valve applications; vacuum systems; and air logic. Within these categories, learners will study a variety of knowledge applicable to modern industrial tasks. Some of these topics include: the operation of a 2-speed pneumatic circuit using a cam valve; the operation of a vacuum cup; the function of a shuttle valve; and more! The 96-PNE's curriculum is presented in an interactive multimedia format that features stunning 3D graphics, quizzes, illustrations, and audio voiceovers of all of the text.

## Fluid Power Learning Systems within Amatrol's Project-Based Learning Program

The 96-PNE2 is only one learning system specifically designed for high school instruction offered by Amatrol. Just within the Fluid Power category, Amatrol also offers the required Pneumatics 1 (96-PNE1), as well as three hydraulics systems: Hydraulics 1 (96-HYD1), Hydraulics 2 (96-HYD2), and Hydraulics 3 (96-HYD3). Other learning categories within Project-Based Learning include automation, electrical, machining, manufacturing processes, materials, mechanical, quality assurance, thermal, and workplace effectiveness.

## Student Reference Guide

A sample copy of the Pneumatics 2 Student Reference Guide is also included with the system for your evaluation. Sourced from the system's multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfect-bound book.

