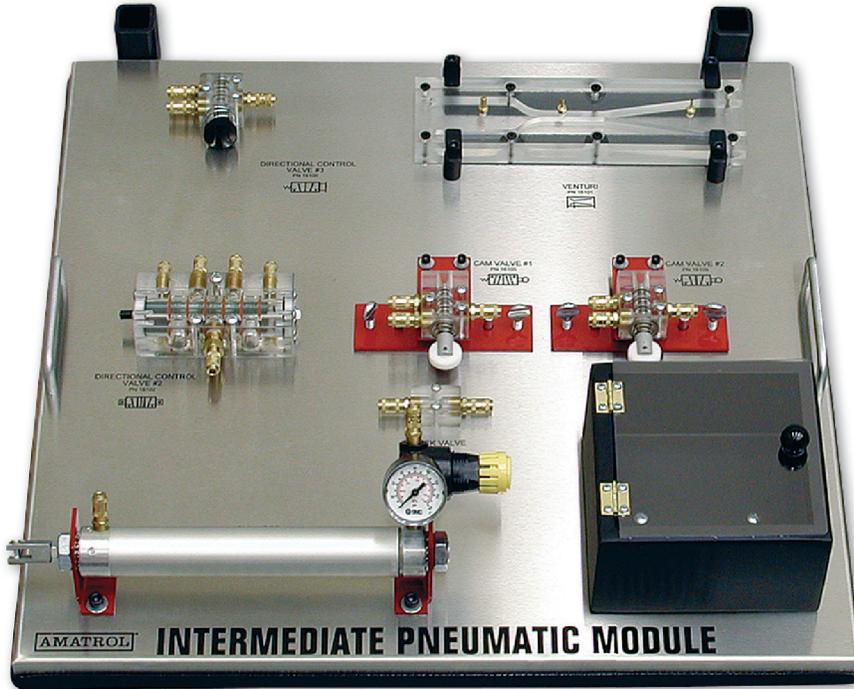
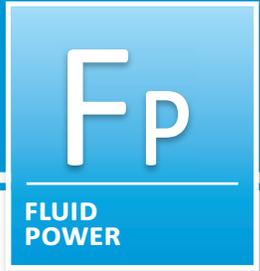
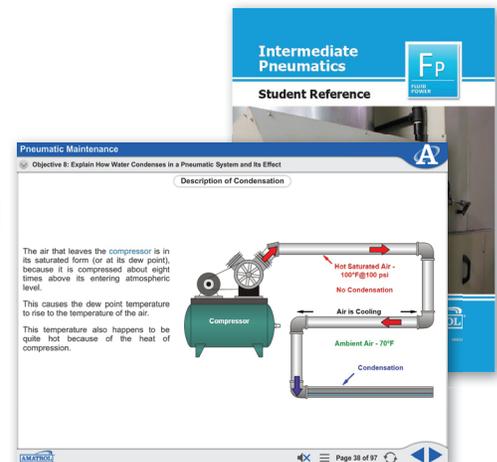


# Intermediate Pneumatics Learning System

85-IP



85-IP



Interactive Multimedia and Student Reference Guide

## Learning Topics:

- Pneumatic DCV Applications
- Cam Valves
- Two-Way Valves
- Air Logic
- Externally Piloted Valves
- Pneumatic Maintenance
- Air Filtration
- Water Removal
- Lubrication
- Servicing Pneumatic Components

Amatrol's Intermediate Pneumatics Learning System (85-IP) builds on basic pneumatic skills by introducing more advanced concepts such as air logic, ways to decelerate a pneumatic cylinder, and how to prevent condensation in a pneumatic circuit. 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 changing an air filter element; this approach of simultaneously teaching theory and practice reinforces each element and results in a thorough understanding of the topic.

The 85-IP 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.

After completing the 85-IP curriculum, learners can continue to build on these skills by moving on to Amatrol's Advances Pneumatics Learning System (85-AP) and the Pneumatics Troubleshooting Learning System (950-PT1). The 85-AP covers topics such as motor loads, pneumatic cylinder loads, and quick exhaust valves, while the 950-PT1 is the first product to offer a realistic troubleshooting experience for learners because the faults are inserted throughout the system.



## Technical Data

Complete technical specifications available upon request.

### Intermediate Pneumatic Module

- Pushbutton Valve
- Venturi Block
- DCV Air Pilot-Operated
- Check Valve
- Load Cylinder
- Cam Valve
- Cam-Operated Valve
- Loose Component Storage Box

### Loose Components

- Cylinder Seal Kit
- Filter Element, 5 Micron
- Filter Element, 20 Micron
- Filter Element, 70 Micron
- Synthetic Filter Element
- Coalescing Element
- Impingement Device
- Patch Kit
- Service Kit, Air Motor
- Quick-Connect Coupling
- Safety Relief Valve
- Air Bearing
- Lubricator Assembly
- Air Hoses

### Interactive Multimedia Curriculum (MB835)

#### Instructor's Guide (CB835)

#### Installation Guide (DB835)

#### Student Reference Guide (HB835)

#### Additional Requirements:

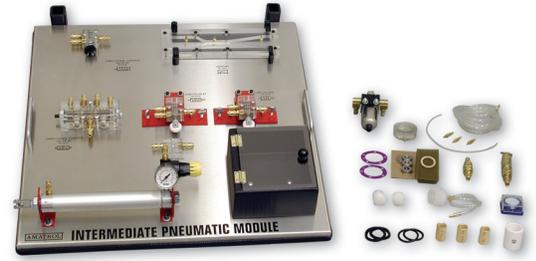
One of the following: 850-P1, 850-PD1, 850-C1, 850-CD1, or 85-BP  
Hand Tool Package (41221)

#### Utilities:

Supplied by Required System

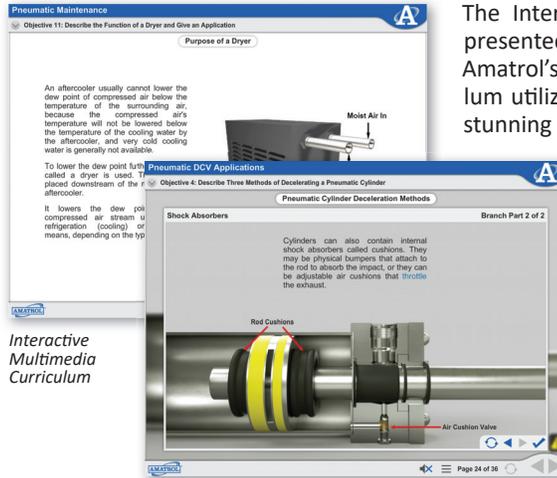
## Real World Applications

The 85-IP curriculum will explain how concepts and skills are applied in real-world environments including petroleum refineries and food processing plants. As two examples, the 85-IP 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.



## Pneumatic Maintenance

One of the major topics within the 85-IP curriculum is the maintenance of pneumatic components and systems. Because contamination of pneumatic circuits can greatly decrease performance or even breakdown certain components, learners will benefit from the maintenance skills they'll acquire from practicing on the 85-IP module. Specific topics include how to select the correct air filter, how to calibrate pressure gauges, the functions of after coolers and dryers, and the process of aerosol lubrication.



Interactive Multimedia Curriculum

The Intermediate Pneumatics training course is presented in an interactive multimedia format. 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.

## Expanded Teaching Add-Ons

The next levels for purchase in Amatrol's pneumatics training are the Advanced Pneumatics Learning System (85-AP) and the Pneumatics Troubleshooting Learning System (950-PT1). The 85-AP introduces learners to advanced pneumatic components such as vacuum gauges, manometers, vacuum generator, and orifice plate flowmeter. The 950-PT1 models real world electro-pneumatic machines with 30 faults that can be inserted into the system. The 950-PT1 covers topics such as system tuning, startup/shutdown, and rodless cylinders.

## Student Reference Guide

A sample copy of the Intermediate Pneumatics 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.

