

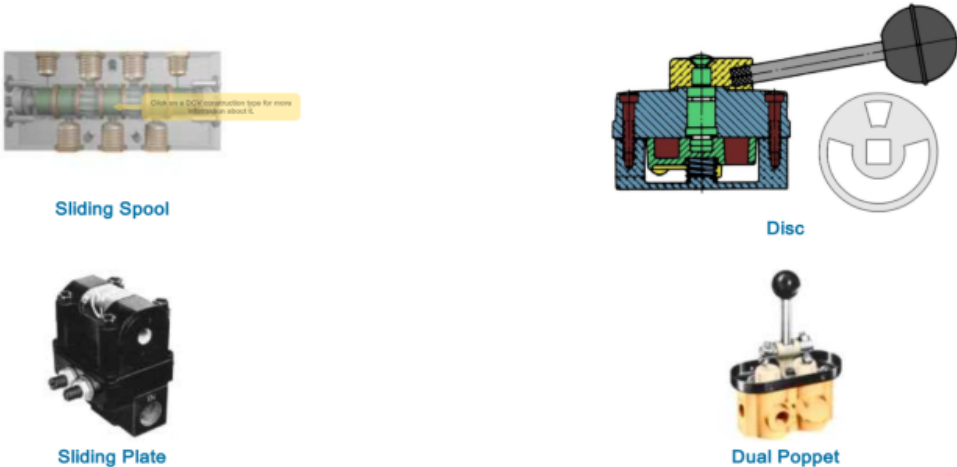
# Intermediate Pneumatics | Multimedia Courseware

Air Logic - WXB835-BA02XEN-E2

Objective 3: Describe Four Types of Pneumatic DCV Construction

Types of Pneumatic DCV Construction

There are four types of pneumatic DCV constructions. They are:



The image displays four types of pneumatic DCV constructions: Sliding Spool, Disc, Sliding Plate, and Dual Poppet. Each type is accompanied by a diagram or photograph. The Sliding Spool diagram shows a spool moving within a valve body. The Disc diagram shows a disc moving to open or close ports. The Sliding Plate diagram shows a plate moving to connect or disconnect ports. The Dual Poppet diagram shows two poppets moving to control flow. A yellow callout box points to the Sliding Spool diagram with the text: 'Click on a DCV construction type for more information about it.'

Sliding Spool

Disc

Sliding Plate

Dual Poppet

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## Multimedia Courseware: MB835

Pneumatic power is used in everything from air brakes and hand tools to spray painters and industrial robots. Amatrol's Multimedia Courseware - Basic Pneumatics (MB834) teaches learners about essential basic pneumatics concepts applicable across a variety of modern industries, such as manufacturing, transportation, and construction. Learners using Amatrol's basic pneumatics eLearning course begin by studying the physical principles of pneumatics, such as pressure and flow, and how pneumatic mechanisms are used in real world applications. From this building block, learners begin practicing industry-relevant pneumatic skills, like constructing pneumatic circuits.

## Teach Intermediate Pneumatics

Amatrol's eLearning curriculum is unique in that it thoughtfully combines in-depth theoretical knowledge with practical, hands-on skills. This powerful combination of knowledge and skills solidifies understanding and creates a strong foundation for pursuing more advanced skills.

### Pneumatic DCV Applications

Learners using Amatrol's intermediate pneumatics eLearning course will study various aspects and components of pneumatic DCV applications, including cam valves, cam valve applications, and two-way valves. Individual lessons focus on topics like the function and operation of a pneumatic cam-operated DCV, the operation of a 2-speed pneumatic circuit using a cam valve, and the construction and operation of five types of two-way valves. Learners will also practice skills, such as connecting and operating a pneumatic cam-operated 4/2 DCV, designing a rapid traverse-slow feed pneumatic circuit, and connecting and operating a cylinder deceleration circuit using power braking.

### Air Logic

Learners will study various aspects and components of air logic, including externally-piloted valves, applications of air logic, and air logic design. Individual lessons focus on topics like the function and applications of an externally air-piloted DCV, the operation of an air logic cylinder sequence circuit, and the operation of a pneumatic seal-in circuit. Learners will also practice skills, such as designing a pneumatic circuit that uses an externally air-piloted DCV, connecting and operating a cam-operated sequence circuit, and connecting and operating an air logic circuit to control a reciprocating cylinder.

## **Pneumatic Maintenance**

Learners using Amatrol's intermediate pneumatics eLearning course will study various aspects and components of pneumatic maintenance, including air filtration, water removal, lubrication, and servicing pneumatic components. Individual lessons focus on topics like the function and applications of a coalescing filter, the operation of two types of pneumatic traps, and the operation and applications of three types of pneumatic lubricators. Learners will also practice skills, such as changing an air filter element, selecting an air filter for an application, and connecting, filling, and adjusting a lubricator.

## **Virtual Simulator**

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### **Motor Control Troubleshooting Virtual Simulator | Preview**

Amatrol's eLearning curriculum is unique in that it thoughtfully combines in-depth theoretical knowledge with practical, hands-on skills. This powerful combination of knowledge and skills solidifies understanding and creates a strong foundation for pursuing more advanced skills.

For example, the precision gauging eLearning course covers important topics, such as:

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