

Pneumatic Skills in a Virtual Training Environment | Virtual Trainer Courseware

Basic Pneumatic Circuits - VXB780-AA02AEN-E1

Objective 3: Describe the Function of a 3/2 Pneumatic DCV and Give an Application

Function of a 3/2 Pneumatic DCV

A 3-port directional control valve is normally used to operate a single-acting cylinder.

The 3/2 DCV is designed to take advantage of the fact that a single-acting cylinder does not need an air supply to retract the rod.

The 3/2 DCV allows the machine operator to power the cylinder in one direction and exhaust the air to return the cylinder.

This valve is used in any application where the actuator needs to be powered in one direction only.



You have completed this page. You may now continue on through the curriculum.

AMATROL Page 12 of 52

eLearning Course: NB780

Amatrol's online Pneumatics training course (NB780) prepares future workforce members to understand pneumatic applications and concepts and then practice pneumatic skills in a virtual training environment. This pneumatic training course covers key topics and skills in pneumatic power and safety, pneumatic circuits, pneumatic schematics, the principles of pneumatic pressure and flow, and pneumatic speed control circuits.

Learners will practice virtual skills like: using a tee to connect two circuit branches together; connecting and operating a single-acting pneumatic cylinder using a 3/2 manually-operated DCV; calculating the retraction force of a cylinder given its size and pressure; and connecting and operating an exhaust port speed control circuit.

Teach Hands-On Skills

Skills Training Comes Alive Thanks to Amatrol's Virtual Pneumatic Trainer

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 use 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.

Multimedia Course

Multimedia Curriculum Features for Online Pneumatics Training

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.

Additional Info

Requires:

- Computer: [See requirements](#)

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