

Hydraulics 2 eLearning Course | Pressure Control Circuits, DCVs, & Cylinders

Pressure Control Circuits - W12241-XA01AEN-E1

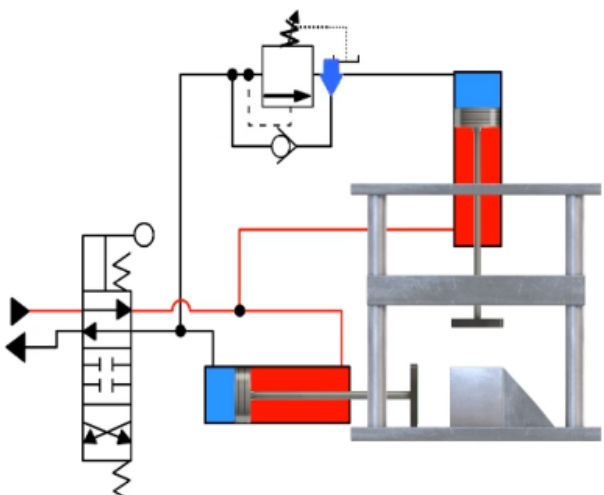
Objective 3: Describe the Function of a Bypass Check Valve in a Sequence Valve Circuit

Bypass Check Valve Circuit Application

When the DCV is shifted, the clamp cylinder extends at low pressure. When it clamps the part, the pressure rises and opens the sequence valve causing the press cylinder to extend. At this point, the check valve is closed.

Once the press cylinder extends and performs the operation, the DCV can be shifted to retract both cylinders.

The bypass check valve then opens and allows the oil being pushed out of the cap end of the press cylinder to flow freely around the sequence valve to the reservoir.



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eLearning Course: M12241

Amatrol's Hydraulics 2 eLearning course (M12241) teaches users the operation and application of several hydraulic components, including pressure control circuits, multiple types of valves, and hydraulic cylinders. Some of the various valves covered in this course are relief valves, sequence valves, check valves, and direct, pilot, and cam-operated valves.

Teach Hydraulic Circuits, Valves, & Cylinders

Distinguish Between Types of Valves and Cylinders

Amatrol's Hydraulics 2 eLearning course (M12241) uses text, schematics, cutaways, and animations to clearly teach learners to distinguish between different types of valves and cylinders. For example, users will come away with the knowledge of how to label different DCV models according to their construction, such as whether a DCV is a 2, 3, or 4-way, and how many positions it has.

Use Hydraulic Circuit Schematics

The application of all the covered circuits, valves, and cylinders are illustrated and animated with schematics so learners can see components in action, such as analyzing how pressure changes within a hydraulic system affects sequence valves and how a regeneration circuit operates.

Interactive eLearning

Practice with Online Exercises

Online skill demonstrations and interactions will teach learners to arrange DCV schematics to make a functional circuit, select the correct mounting for each cylinder type, calculate rod extend speed and cylinder output force, and more.

Anytime, Anywhere Access Promotes Self-Paced Learning

In today's fast-paced, technology-driven world, it's more important than ever to extend the reach of industrial skill training beyond the borders of traditional classrooms. Amatrol's eLearning meets the challenge for flexibility by

offering in-depth, comprehensive technical skills training via an intuitive, easy-to-use web-based Learning Management System (LMS).

With anytime, anywhere online access, Amatrol's eLearning allows learners to set their own pace at home, on the job, in a traditional class setting, or a blended approach of these options.

Additional Info

Requires:

- [Computer \(see Computer Requirements\)](#)

Options:

- Hydraulics 2 Learning System (96-HYD2)

Address

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