

Department of Electrical and Electronics Engineering

Academic Year: 2020-2021 Semester: VI

Batch: 2018-2022

Subject Code: EE18603

Subject Name: Industrial Automation and Networking

1. MHRD Virtual Laboratory (VLAB)

In order to make students involved in experiential learning, the PLC lab in VLAB is introduced and a topic on DOL starter was demonstrated.

kdw-gdzk-bmr (2021-11-23 at 05:31 GMT-8)

The screenshot displays a web-based PLC simulator interface. At the top, a browser window shows the URL 'plc-coep.vlabs.in/exp3/simulator3.html'. A dialog box in the center of the screen reports 'Compiled Successfully...'. Below this, the main workspace shows a ladder logic diagram with two rungs. The first rung contains a normally open contact labeled '0' and a coil labeled 'STOP'. The second rung contains a normally open contact labeled '1' and a coil labeled 'STOP'. The video player interface at the bottom indicates the video is paused at 20:32 / 24:01.

kdw-gdzk-bmr (2021-11-23 at 05:31 GMT-8)

19:25 / 24:01

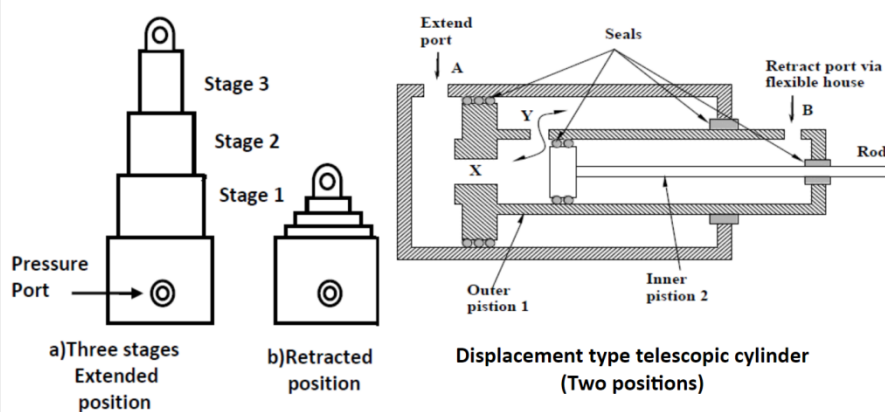
2. Online resources - videos:

- For some of the prerequisite topics and operation of special components (eg. Telescopic cylinders), online video demonstrations were incorporated to enlighten better understanding of the fundamentals of the topic.
- Photo or scanned proof

Telescopic cylinder

<https://www.youtube.com/watch?v=zrK5NhzgSvE>
<https://www.youtube.com/watch?v=DFkAVn9Ny-M>

Telescopic cylinder is used when long stroke length and short retracted length are required. They extend in stages, each stage consisting of a sleeve that fits inside of the previous stage.



28 July 2020

Double Acting Cylinder with piston rod on one side

37

