

# **BASIC HYDRAULIC TRAINING SET**

## **MODEL: FA-102-SS-B**

### **Description**

The basics of hydraulic systems is designed for TVET educational and hands-on learning purposes. This training set offers a practical introduction to the principles and components of hydraulic technology. It provides a comprehensive learning experience in fluid mechanics and hydraulic circuits.

### **Able to learn :-**

- Application of hydraulics
- Physical principle of hydraulic
- Understanding of hydraulic symbols
- Understanding of hydraulic circuit diagram
- Pressure/Speed control of hydraulic system
- Force measure of hydraulic cylinder
- Application of directional control valve
- Application of hydraulic actuator
- Common hydraulic operation circuit in industries
- Maintenance of hydraulic system



### **Required Item**

- Hydraulic basic working table (single side)
- Magnetic symbol ( Hydraulic)
- Hydraulic Operation Manual (basic)
- Hydraulic Experiment Manual (basic)
- Basic hydraulic training set

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# BASIC HYDRAULIC TRAINING SET (EH101)

## Technical Specification :-

| No | Component                                    | Qty |
|----|--|-----|
| 1  | Hydraulic basic worktable                    | 1   |
| 2  | Three tier metal drawer                      | 1   |
| 3  | Aluminium profile Training Panel             | 1   |
| 4  | Hydraulic Power Unit                         | 1   |
| 5  | Oil tray                                     | 1   |
| 6  | Pressure relief valve                        | 1   |
| 7  | Pressure reducing valve                      | 1   |
| 8  | Double-acting cylinder                       | 1   |
| 9  | Hydraulic motor                              | 1   |
| 10 | Flow control valve<br>(pressure compensated) | 1   |
| 11 | One-way flow control valve                   | 1   |
| 12 | 4/2 - way hand level valve                   | 1   |

| No | Component                        | Qty |
|----|----------------------------------|-----|
| 13 | 4/3 - way hand level valve (ABT) | 1   |
| 14 | 4/3 - way hand level valve (PT)  | 1   |
| 15 | Check valve                      | 1   |
| 16 | Pilot check valve                | 2   |
| 17 | T-line return with gauge         | 1   |
| 18 | P-line distributor with gauge    | 1   |
| 19 | T connector                      | 1   |
| 20 | Shut-off valve                   | 1   |
| 21 | Hose 1500mm                      | 2   |
| 22 | Hose 1000mm                      | 6   |
| 23 | Hose 600mm                       | 10  |
| 24 | Hydraulic oil                    | 1   |

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