



### Features :-

- Function of electrical pushbuttons switches and limit switches
- Function and use of hydraulic solenoid valves
- Design and mode of operation of a relay
- Recognizing and reading of electrical and hydraulic diagrams
- Design, construction and operation of basic circuits
- Selecting solenoid valves according to the technical control requirements
- Using and designing of basic logic functions
- Direct and indirect control of actuators
- Explaining and designing of an electric latching circuit
- Electrically a locking of signals in a relay control system
- Manual and automatic operation
- Interlocking circuits
- Rapid traverse circuits
- Using of a pressure switch
- Fault finding in electro-hydraulic control system

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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- Function and use of electric sensors
- Comprehensive sequence controls
- Combined position and pressure-dependent controls
- Electrical controls with several actuators
- Sequence controls with peripheral conditions
- Controls with on-delay and off-delay time relays
- Creating sequence control as a displacement-step diagram
- Single cycle and continuous cycle
- Counter control with preset counter
- Manual/automatic, Emergency Stop
- Using of different proximity sensors
- Identifying signal overlaps in a sequence control and taking the appropriate action

**Specifications :-**

**Pressure relief valve (directly actuated)**

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Manual override



**Flow control valve (pressure compensative)**

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Manual override
- 2-way flow control valve
- Pressure balance function



**One-way flow control valve**

- Pressure range : 0 ~ 120 bar
- Flow rate : 10 LPM
- Check valve pressure : 1 bar
- Operating pressure : 60 bar
- Manual override



**Check valve (5 Bar)**

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Check pressure : 5 bar



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#### 4/2-way solenoid valve

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Power consumption : 27W
- Power : DC 24V
- LED and protection circuit included



#### 4/3-way double solenoid valve (PABT blocked)

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Power consumption : 27W
- PABT blocked (All blocked)
- Power : DC 24V
- LED and protection circuit included



#### 4/2-way double solenoid valve

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Power consumption : 27W
- Power : DC 24V
- LED and protection circuit included



#### Shut-off valve

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Manual override



#### Weight

- Weight : 9 Kg
- diameter : 120mm
- Length : 120mm



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### Double-acting cylinder(16-10-200)

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Piston diameter : 16mm
- Piston rod diameter : 10mm
- Cylinder Stroke : 200 mm
- Surface area ratio = 1.64 : 1



### T connector

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar



### Pressure gauge with distributor

- Pressure range : 0 ~ 100 bar
- Precision : 1.6%
- Glycerin filling
- Operating fluid : hydraulic oil
- Gauge diameter : 60 mm
- Distribution connector : 4ea



### Pressure gauge

- Pressure range : 0 ~ 100 bar
- Precision : 1.6%
- Glycerin filling
- Operating fluid : hydraulic oil
- Gauge diameter : 60 mm



### Pressure switch

- Diaphragm switch
- Operating pressure : 10 ~ 70 bar
- hysteresis : 15%
- contact capacity : 5A
- Manual override



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**Relay unit (3-fold)**

- Power : DC 24V
- Contact : 4 C - contact
- Contact load : Max. 5A
- Allowable : Max. 120W
- Operating time : < 20 ms
- Block time : < 20 ms

**Push-button switch set**

- Power : DC 24V
- Consist of : 2 push-buttons, 1 locking push-button
- Contact : 2 a-contact, 2 b-contact
- Contact allowable : Max. 1A
- Power consumption : 0.48W

**Electric limit switch**

- Contact : DC 24V, 5A
- Contact : 1C
- Switching frequency : Max. 200Hz
- Roller lever electric switch

**Inductive sensor**

- Switching power : DC10~30V
- Switching distance : 5mm
- Switching frequency : Max. 500Hz
- Output contact : Normally open contact, PNP
- Output current : Max. 200mA
- Protection circuit included



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### Power unit 1 pump

- Motor : AC 220, 1.5 KW, 12.3 A.
- Gear pump type
- Flow rate : 4 LPM
- Operating pressure : 5 ~ 60 bar
- Tank capacity : 30 ℓ
- Pressure gauge included
- Filter, level, temperature meter included



### Hose 1500 mm/1000 mm/600 mm

- Pressure range : 0 ~ 120 bar
- Operating pressure : 60 bar
- Temperature : -40°C ~ 125°C
- Min. flexibility : 80mm



### Power supply

- Power : AC 220 V, 50/60Hz
- Output power : DC 24V
- Output current : 5A



### Cable set (safety socket)

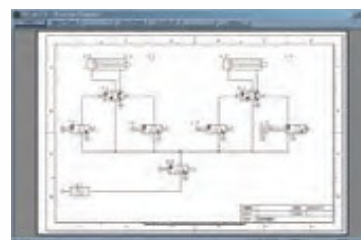
- Color : red, blue, black
- Length : 1500mm, 1000mm, 500mm, 300mm, 100mm
- High elasticity and special coating
- Safety socket type



### PLC trainer with SIEMENS S7-1500F PLC-S7-1500-DIO32, AIO ADVANCED

(DI/DO: 32/32, AI/AO: 8/4)

Hydraulic-Lab(simulation software)



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