

KCL-22B

HYDRAULIC TRAINER SYSTEM

MAKE : KITEK

KCL-22B Hydraulic Trainer System is a very versatile self - contained training package for the teachers and students in hydraulics. It is designed for fail safe operation and ease of learning. Hydraulic Trainer meets the requirements of providing practical "HANDS ON" training and can be used both as an experimental kit and as a demonstrator. Various basic / advanced hydraulic circuits can be built easily due to special design of the trainer. The commonly used industrial hydraulic components are provided for preparing various Hydraulic circuits

TECHNICAL SPECIFICATION

- Hydraulic Trainer consists of flat control panel with general purpose component area provided using 40X40 mm Aluminum profile rack with MS Plate size of 1115 x 750 mm (W x H).
- General purpose area of size 1000 x 700 mm (W x H) for fixing Hydraulic Component.
- Trainer Mountable Aluminium Stand for Hydraulic Hose Pipes
- Single Phase 220V DOL Starter with 2Pole MCB/6A, contractor 9A, Relay 4.5A – 6.4A with Start/Stop Switch
- Hand Lever Directional Valve (3/2 way) with Subplate having QRC on front side
- Hand Lever Directional Valve (4/3 way) with Subplate having QRC on front side
- Hand Lever Directional Valve (4/2 way) with Subplate having QRC on front side
- Single Acting Cylinder (10cm stroke) up to 100bar with QRC on front side
- Double Acting Cylinder (10cm stroke) up to 100bar with QRC on front side
- Check Valve up to 100bar with Subplate having QRC on front side
- Two Numbers of Flow Control Valve with QRC on front side
- 100bar Pressure Gauge
- 4 Port Manifold (2No's) with QRC on front side
- Two Numbers of T Connector with Male & Female QRC fitted
- Loading Weight 15Kgs
- QRC fitted Hose Pipe 2-meter length (2 No's.)
- QRC fitted Hose Pipe 1.5-meter length (4 No's.)



HYDRAULIC POWER PACK

- 30 Liter Power Pack
- 230V/50Hz 1HP 1440 RPM AC Induction Motor
- 3/6 LPM Gear Hydraulic pump
- 100bar Pressure Gauge
- Direct Operated Pressure Relief Valve up to 100bar with Pressure Gauge
- Check Valve
- Suction Filter
- In Line Filter
- Oil Level Indicator
- Oil inlet Lid



Accessories Supply (Optional)

1. HYDRAULIC COMPONENTS (Optional)

- Pressure Reducing Valve with Subplate having QRC on front side
- Pressure Compensated Flow Control valve with Subplate having QRC on front side
- Direct Operated Pressure Relief Valve up to 100bar with Subplate having QRC on front side
- Pressure Sequence Valve with Subplate having QRC on front side
- Pilot Operated Pressure Relief Valve with Subplate having QRC on front side
- Pilot Operated Check Valve with Subplate having QRC on front side
- Counter Balance valve with QRC on front side
- Pilot Operated Directional Valve (4/2 way) with Subplate having QRC on front side
- Shut off Valve with QRC on front side
- Hydraulic Motor with QRC on front side
- Rotameter to measure up to 4 LPM
- Diaphragm Accumulator with QRC on front side
- Measuring Flask (2 liters)
- Oil Temperature Indicator

2. HYDRAULIC OIL (Optional)

- 24/26 Liter Hydraulic oil grade 68.

3. HYDRAULIC WORK BENCH (Optional)

- Work Table Size 1200x750x800 (L x W x H), with four castor wheels including two lockable wheels with Drawer size of L450mm x W500mm x H200mm.

EXPERIMENTS (Will Depends on Items/Components Ordered)

- To Study the working of Hydraulic Power Pack
- To Study the working of Directional Control Valve
- To Study the working of Pressure Relief Valve
- To Study the working of Double Acting Cylinder
- To Study the working of Single Acting Cylinder
- To Study the meter in/out flow control
- To Study the working of Direct Operated Pressure Relief Valve
- To Study the regenerative circuit to control extraction and retraction of Double Acting Cylinder
- To Study the bleed off circuit
- To Study the working of Direction Control of Hydraulic Motor
- To Study the working of Flow Control Valve
- To Study the working of Counter Balance Valve
- To Study the working of Pressure Sequence Valve

