

ELECTRO-HYDRAULIC TRAINING SET, ADVANCED LEVEL

Model Number : GOTT-EHYD-ADV-01

| No. | Contents | Order No. | Qty. | No. | Contents | Order No. | Qty. |
|-----|--|-----------|------|-----|--|-----------|------|
| 1 | Relay, 3-fold | 13030 | 2 | 13 | One-way flow control valve | 15061 | 1 |
| 2 | Push-button switch set | 13033 | 1 | 14 | Pilot actuated check valve | 15062 | 1 |
| 3 | Electrical distributor | 13034 | 1 | 15 | Check valve(1bar) | 15064 | 1 |
| 4 | Limit switch electrical left-actuated | 13051 | 2 | 16 | Check valve(5bar) | 15065 | 1 |
| 5 | Limit switch, electrical, right-actuated | 13052 | 2 | 17 | T connector | 15066 | 8 |
| 6 | Cable set | 13080 | 1 | 18 | Pressure gauge | 15070 | 3 |
| 7 | Power supply | 13090 | 1 | 19 | 4/2-way single solenoid valve | 16012 | 1 |
| 8 | Weight | 15022 | 1 | 20 | 4/3-way double solenoid valve (All block) | 16014 | 1 |
| 9 | Double-acting cylinder | 15031 | 1 | 21 | Hose,1500mm | 15090 | 2 |
| 10 | Hydraulic motor | 15035 | 1 | 22 | Hose,1000mm | 15091 | 8 |
| 11 | Pressure relief valve(directly controlled) | 15050 | 2 | 23 | Hose,600mm | 15092 | 8 |
| 12 | Pressure compensating flow control valve | 15053 | 1 | | | | |

EXPERIMENT TOPICS :

- Basic principle of electro-hydraulic
- Function of electro-hydraulic training set
- Electro-hydraulic control circuit
- Relay control circuit
- Electric self holding circuit
- Composing control system
- Count balance circuit
- Pressure compensative flow control valve
- Sequence and emergency circuit
- Application of hydraulic circuit
- Manual, auto, memory circuit
- Speed control circuit
- Fault finding in electro-hydraulic control system

PROPORTIONAL HYDRAULIC TRAINING SET

Model Number : GOTT-HYD-PRO-01

| No. | Contents | Order No. | Qty. | No. | Contents | Order No. | Qty. |
|-----|---|-----------|------|-----|------------------------------------|-----------|------|
| 1 | Pressure gauge | 15070 | 2 | 13 | Proportional amplifier | 18002 | 1 |
| 2 | 2-way flow control valve | 15060 | 1 | 14 | Setpoint control card | 18001 | 1 |
| 3 | One-way flow control valve | 15061 | 1 | 15 | 4/2-WAY solenoid valve | 16012 | 1 |
| 4 | T connector | 15066 | 2 | 16 | 4/3-WAY proportional control valve | 18012 | 2 |
| 5 | Pressure relief valve (directly controlled) | 15050 | 1 | 17 | Proportional pressure relief valve | 18006 | 1 |
| 6 | Double acting cylinder | 15031 | 1 | 18 | Inductive sensor | 13040 | 1 |
| 7 | Hydraulic motor | 15035 | 1 | 19 | Hose 1500mm | 15090 | 2 |
| 8 | Pressure filter | 18008 | 1 | 20 | Hose 1000mm | 15091 | 8 |
| 9 | Weight | 15022 | 1 | 21 | Power supply | 13090 | 1 |
| 10 | Pressure compensation valve | 18009 | 1 | 22 | Cable set | 13080 | 1 |
| 11 | Relay(3-fold) | 13030 | 1 | 23 | Digital multimeter | 21012 | 1 |
| 12 | Push-button switch set | 13033 | 1 | | | | |

EXPERIMENT TOPICS :

- Feature of setpoint control card
- Principle of proportional amplifier
- P,I,D parameter
- Feature of Proportional control valve
- Proportional pressure relief valve for pressure setting
- Pump control circuit
- Multi step speed control
- Pressure control circuit
- Emergency circuit
- Mid-position control circuit
- Acceleration control circuit