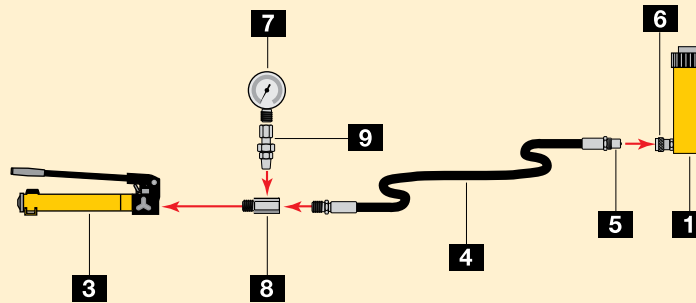




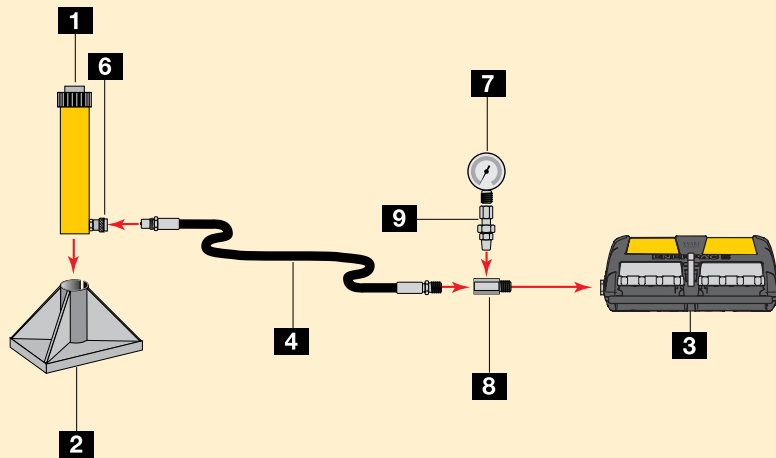
- 1 Cylinder**
Applies hydraulic force.
Page 5
- 2 Cylinder Base Plate**
For applications such as lifting where additional cylinder stability is required.
Page 10
- 3 Pump**
Provides hydraulic flow.
Page 61
- 4 Hose**
Transports hydraulic fluid.
Page 118-119
- 5 Male Coupler**
For quick connection of the hose to system components.
Page 120-121
- 6 Female Coupler**
For quick connection of the hose end to the system components.
Page 120-121
- 7 Gauge**
To monitor pressure of the hydraulic circuit.
Page 124-127
- 8 Gauge Adaptor**
For quick and easy gauge installation.
Page 130
- 9 Swivel Connector**
Allows proper alignment of valves and/or gauges. Used when units being connected cannot be rotated.
Page 130
- 10 Auto-damper Valve V-10**
Used to protect gauge from damage due to sudden pulses in the system. Needs no adjustment and allows correct positioning of gauge, prior to tightening.
Page 133

Single-acting push application, such as in a press.
The hand pump offers controlled cylinder advance, but may require many hand pump strokes in longer stroke applications when the cylinder capacity is 25 ton or above.

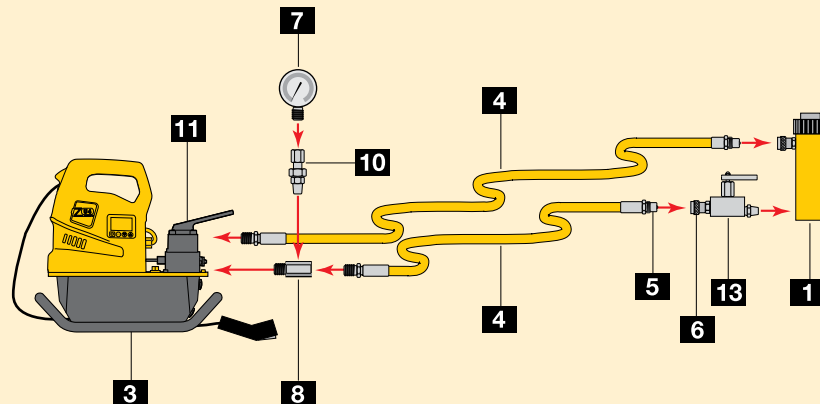
Examples of pump, hose and cylinder sets can be found on page 59.



Single-acting cylinder with longer stroke used for lifting applications.

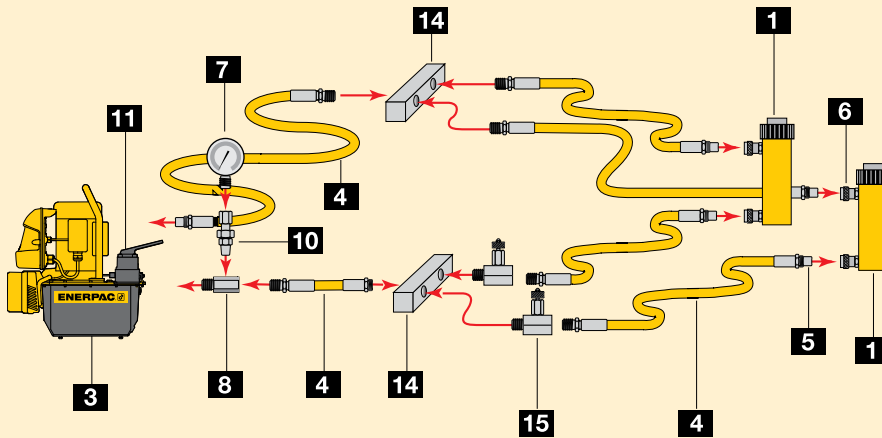


Double-acting cylinder set-up used for lifting applications where a slow controlled descent of the load must be maintained.





Double-acting cylinder set-up used in a push/pull application.



11 4-Way Directional Control Valve
Controls the direction of hydraulic fluid in a double-acting system.
Page 110

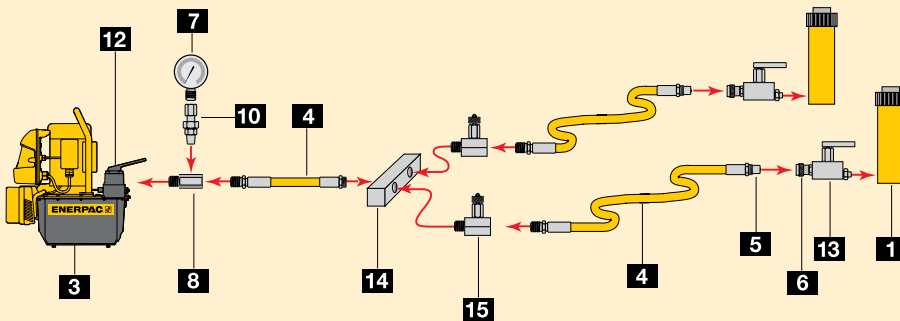
12 3-Way Directional Control Valve
Controls the direction of hydraulic fluid in a single-acting system.
Page 110


13 Safety Holding Valve
Controls load descent in lifting applications.
Page 133

14 Manifold
Allows distribution of hydraulic fluid from one power source to several cylinders
Page 122

15 Needle Valve
Regulates the flow of hydraulic fluid to or from the cylinders.
Page 133

Two point lifting set-up using single-acting cylinders.





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Four point lifting set-up, using single-acting cylinders, flow control valves and safety valves.

