



Basic System Set-ups

1 Cylinder

Applies hydraulic force.
Page 5

2 Cylinder Base Plate

For applications like lifting where additional cylinder stability is required.
Page 10

3 Pump

Provides hydraulic flow.
Page 65

4 Hose

Transports hydraulic fluid.
Page 120-121

5 Male Coupler

For quick connection of the hose to system components.
Page 122-123

6 Female Coupler

For quick connection of the hose end to the system components.
Page 122-123

7 Gauge

To monitor pressure of the hydraulic circuit.
Page 126-131

8 Gauge Adaptor

For quick and easy gauge installation.
Page 132

9 Swivel Connector

Allows proper alignment of valves and/or gauges. Used when units being connected cannot be rotated.
Page 132

10 Auto-Damper Valve V-10

Used to protect gauge from damage due to sudden pressure pulses in the system. Needs no adjustment and allows correct positioning of gauge, prior to tightening.
Page 134-135

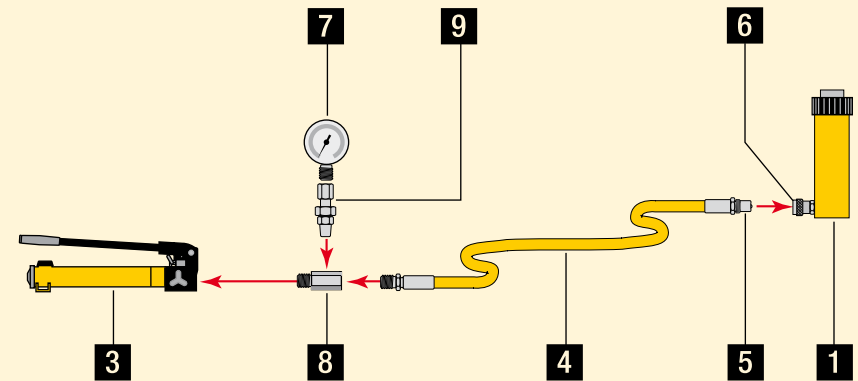
11 4-Way Directional Control Valve

Controls the direction of hydraulic fluid in a double-acting system.
Page 114-115

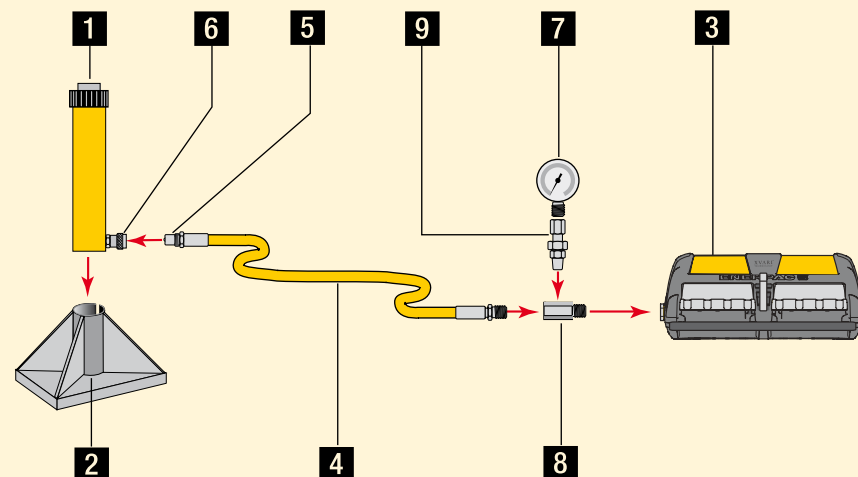
Single-acting push application, such as in a press.

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.

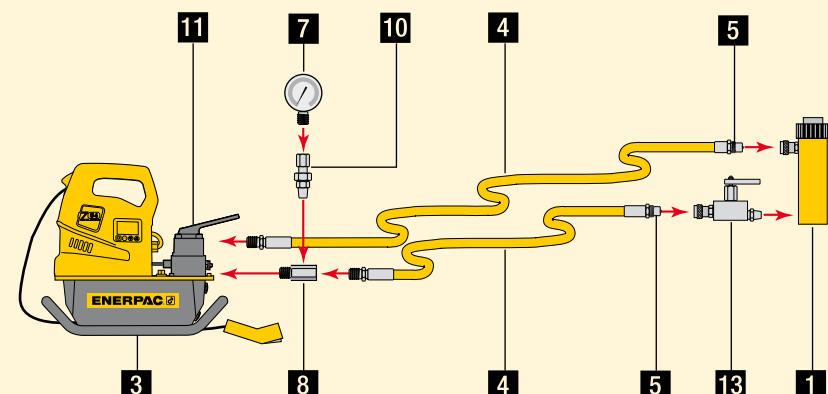
Examples of pump, hose and cylinder sets can be found on page 62.



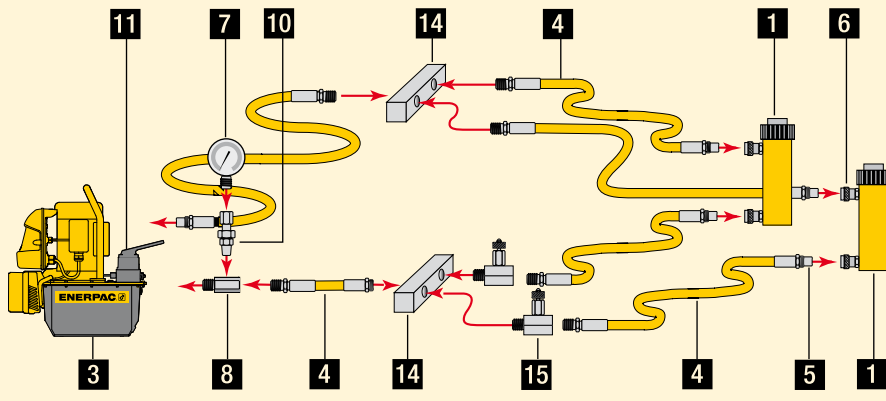
Single-acting cylinder with longer stroke used for lifting applications.



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.



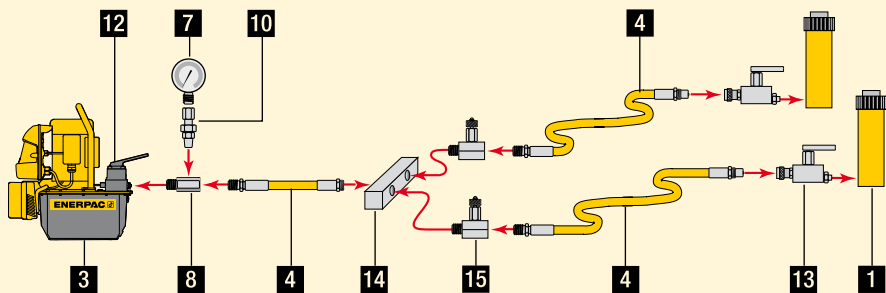
12 3-Way Directional Control Valve
Controls the direction of hydraulic fluid in a single-acting system.
Page 114-115

13 Safety Holding Valve
Controls load descent in lifting applications.
Page 134-135

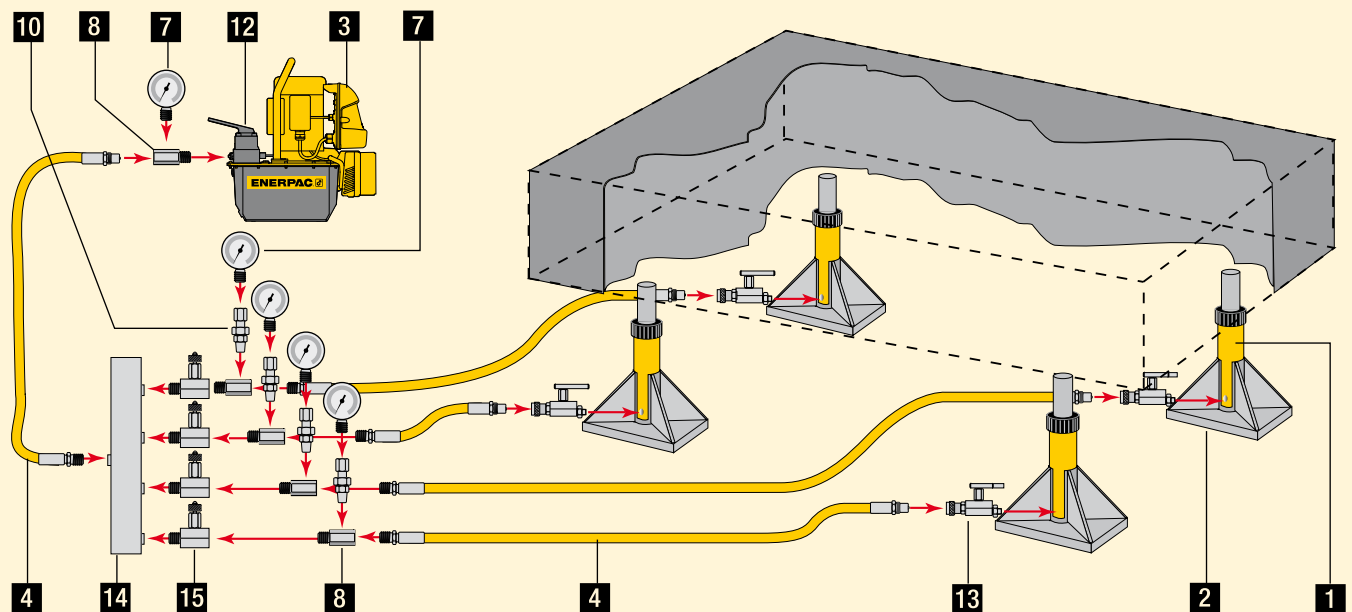
14 Manifold
Allows distribution of hydraulic fluid from one power source to several cylinders
Page 124

15 Needle valve
Regulates the flow of hydraulic fluid to or from the cylinders.
Page 134-135

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



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



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Visit our web site to learn more about hydraulics and system set-ups.