

Animation Worksheet: Basic Hydraulic System

Name: _____ **Date:** _____

1. The components of a basic hydraulic circuit consist of a _____, which draws fluid from the reservoir and pressurizes it.
2. The _____ stores hydraulic fluid for the system.
3. The _____ valve directs fluid flow to the output piston or returns it.
4. The output piston converts fluid pressure into mechanical _____.
5. The pressure release circuit includes a check ball and a _____ valve that opens under high pressure to prevent system overload.
6. The actual pressure in a hydraulic system depends on the resistance or _____ on the piston.
7. Once the piston reaches its mechanical stop, the load resistance halts its _____.
8. When pressure exceeds a set limit, the _____ ball in the pressure release circuit unseats.
9. When the pressure release opens, fluid bypasses the piston and returns to the _____.
10. When the piston retracts, residual fluid drains back to the reservoir, and the piston is ready for the next _____.