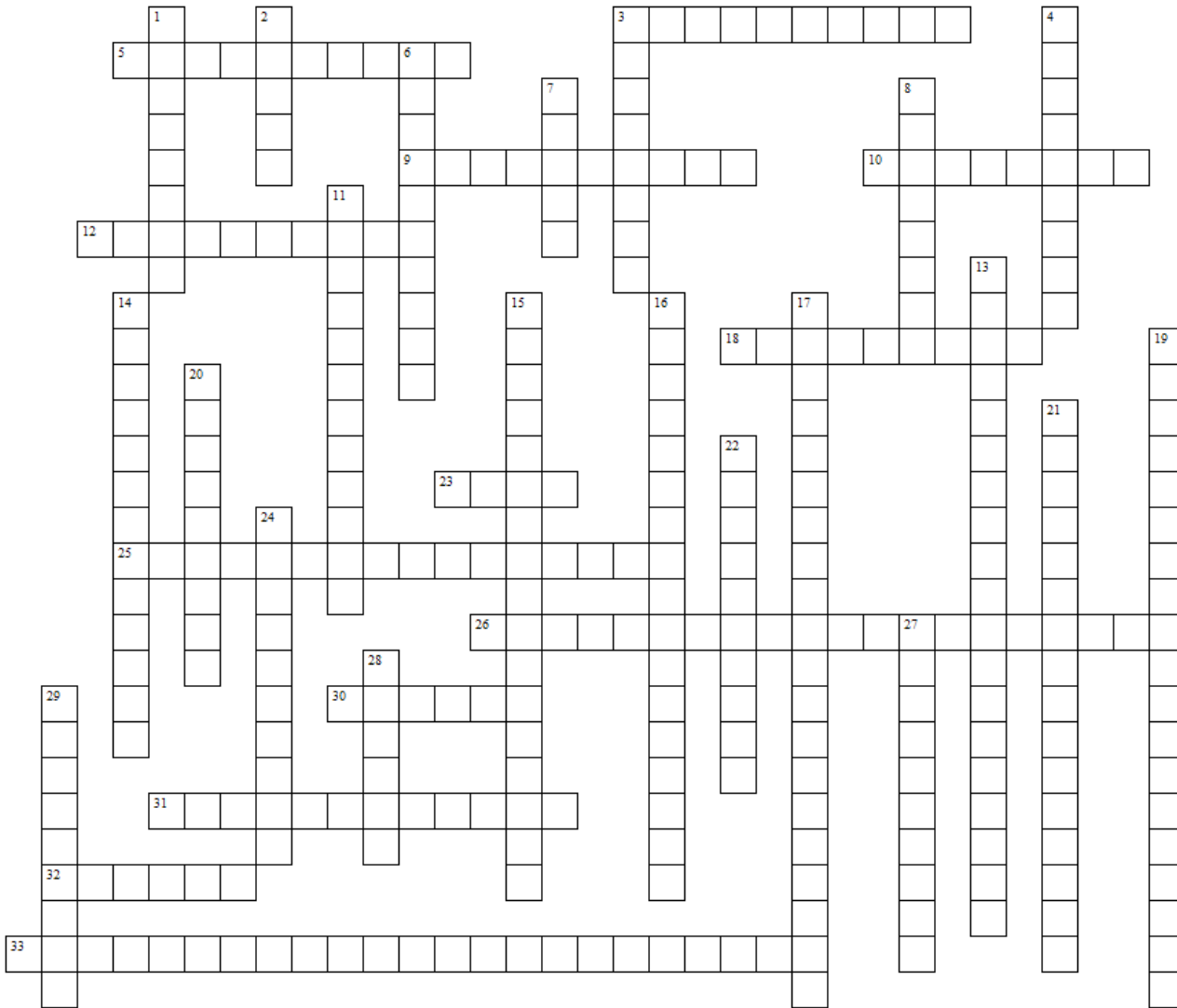


Fluid Power Terms



ACROSS

- 3 The use of gas flowing under pressure to transmit power from one location to another.
- 5 The use of a liquid flowing under pressure to transmit power from one location to another.
- 9 Pressure exerted by a confined fluid acts undiminished equally in all directions.
- 10 A switching device that uses the magnetic field generated by an electrical current for actuation.
- 12 A valve that allows flow in one direction but prevents flow in the opposite direction.
- 18 A device used to measure flow rate.
- 23 A device used to create flow in a hydraulic system.
- 25 The total pressure exerted on a system, including atmospheric pressure.
- 26 A cylinder that acts under pressure in one direction only and returns automatically when the pressure is released.
- 30 A sliding piece moved by or moving against fluid pressure which usually consists of a short cylindrical body fitting within a cylindrical chamber or vessel along which it moves back and forth.
- 31 A device that holds the compressed air in a pneumatic system.
- 32 The amount or quantity of something.
- 33 Used to control which path fluid takes in a circuit.

DOWN

- 1 A device used to convert fluid power into mechanical power in the form of linear motion.
- 2 Any device that controls, either automatically or manually, the flow of a fluid.
- 3 The force per unit area exerted by a fluid against a surface.
- 4 A measure of a fluid's thickness or resistance to flow.
- 6 An air pump that compresses air into a receiver tank.
- 7 A part of an axle or shaft bent out at right angles, for converting reciprocal to circular motion and vice versa.
- 8 The volume of fluid that moves through a system in a given period of time.
- 11 The distance the fluid travels through a system in a given period of time.
- 13 A type of pressure control valve that limits the maximum pressure in a hydraulic or pneumatic circuit.
- 14 The absolute pressure of a confined gas is proportional to its temperature, provided its volume stays constant.
- 15 Used to transport fluid in a circuit.
- 16 A type of pneumatic pressure control valve that controls the maximum pressure in a branch of a circuit.
- 17 A cylinder that can act under pressure in both directions (extend and retract) to move a load.
- 19 The pressure exerted by the weight of the atmosphere above the point of measurement.
- 20 The volume of a gas at constant temperature varies inversely with the pressure exerted on it.
- 21 Used to start and stop flow in a circuit.
- 22 A device used to spray an oil mist into the stream of a pneumatic system.
- 24 The use of a fluid (liquid or gas) to transmit power from one location to another.
- 27 States that the volume of a confined gas is proportional to its temperature, provided its pressure remains constant.
- 28 A device used to remove contamination from a fluid.
- 29 The tank that holds the fluid in a hydraulic system.

See answer key on page 45.

Reprinted with permission from the Center for Compact and Efficient Fluid Power (CCEFP).