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 reciprocating motion 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.
Enlarged copy of hints to Fluid Power Terms Crossword Puzzle

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ANSWER KEY

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C V
HYDRAULICS
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