



KEPNER PRODUCTS COMPANY

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TIPS#18

Glossary

Pressure, burst	The pressure which causes failure of and consequential loss of fluid through the product envelope.
Pressure, cracking	The pressure at which a pressure-operated valve begins to pass fluid.
Pressure, override	The difference between the cracking pressure of a valve and the pressure reached when the valve is passing its rated flow.
Pressure, pilot	The pressure in the pilot circuit.
Pressure, proof	The non-destructive test pressure, in excess of the maximum rated operating pressure, which causes no permanent deformation, excessive external leakage, or other resulting malfunction.
Seal, bubble tight	Seal arrangement that does not allow a bubble of air to be forced past it into water or hydraulic fluid.
Seal, leak tight	Seal arrangement that does not allow a drop of hydraulic fluid to be forced past it into air.
Seal, soft seat	Use of an elastomer as a stop or seat for a poppet.
Seal, metal-to-metal	Use of a metal seat and a metal poppet that have been precision made, so that there is no leakage path between them when the poppet is seated. Kepner Products Company valves have a soft seat seal and use a metal-to-metal stop to prevent the poppet from moving through the seal.
Valve, cartridge	A valve with working parts contained in a cylindrical body. The cylindrical body must be inserted into a housing for use. Ports through the body cooperate with ports in the containing housing.
Valve, directional control	A valve whose primary function is to direct or prevent flow through selected passages.
Valve, directly operated	A valve in which the controlling forces acting on the element directly influence the movement of the control elements.
Valve, pilot operated (indirect)	A valve in which a relatively small flow through an integral vent line relief (pilot) controls the movement of the main element.
Valve, pilot	A valve applied to operate another valve or control.

Valve performance is dependent on proper selection, application, installation and maintenance. Consult Factory.

Kepner Products Company, Villa Park, IL 630.279.1550 E-mail: kepner@kepner.com