



Product Information

Hydraulic & Pneumatic Seals



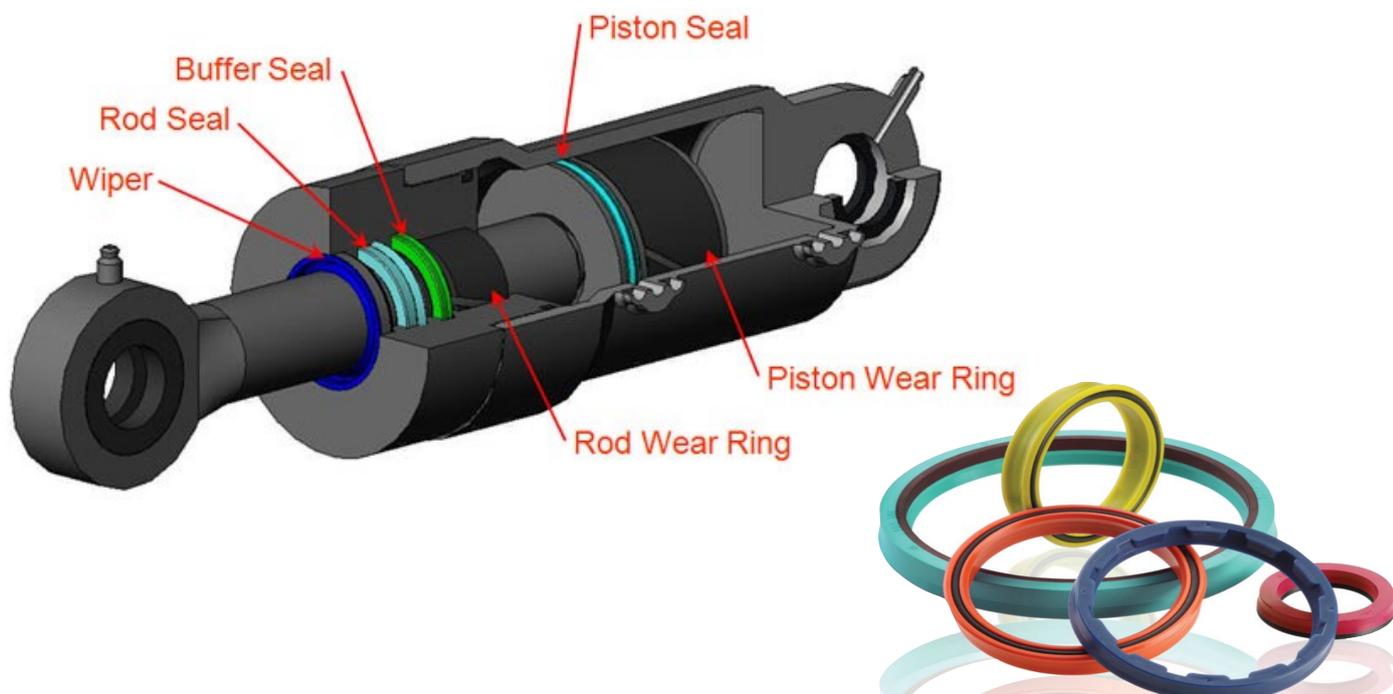
WSI HYDRAULIC & PNEUMATIC RANGE

OF SEALS includes Piston Seals, Rod Seals, Wiper Seals, Wear Rings, etc. Rubber, Polyurethane, PTFE, Nylon and other materials are used to create a variety of seals to work under different hydraulic and pneumatic conditions. Most of these seals are designed for the reciprocating motion used commonly in hydraulic and pneumatic applications such as cylinders. To meet the critical requirements of the hydraulic and pneumatic equipment industries, WSI offers a wide range of designs.

Product Description

Sealing Products for Hydraulic and Pneumatic Cylinder Applications

For the hydraulic and pneumatic equipment, the cylinder design is getting more and more high-tech and complex. As a result, for the cylinder application, a variety of different seals are required, and the seals need to offer long service life and reliability. Sealing elements are critical components for the hydraulic and pneumatic cylinder. Their main function is to prevent the cylinder fluid or gas from escaping, so that to ensure the normal functioning of the cylinder whether in a pressurized or un-pressurized state.





Wiper Seal : To prevent external contaminants from entering the system



Rod Seal : Installed and fixed on the cylinder bore to seal against the rod



Piston Seal : Installed and fixed on the piston groove to seal against the cylinder



Wear Ring : To prevent metal-to-metal contact

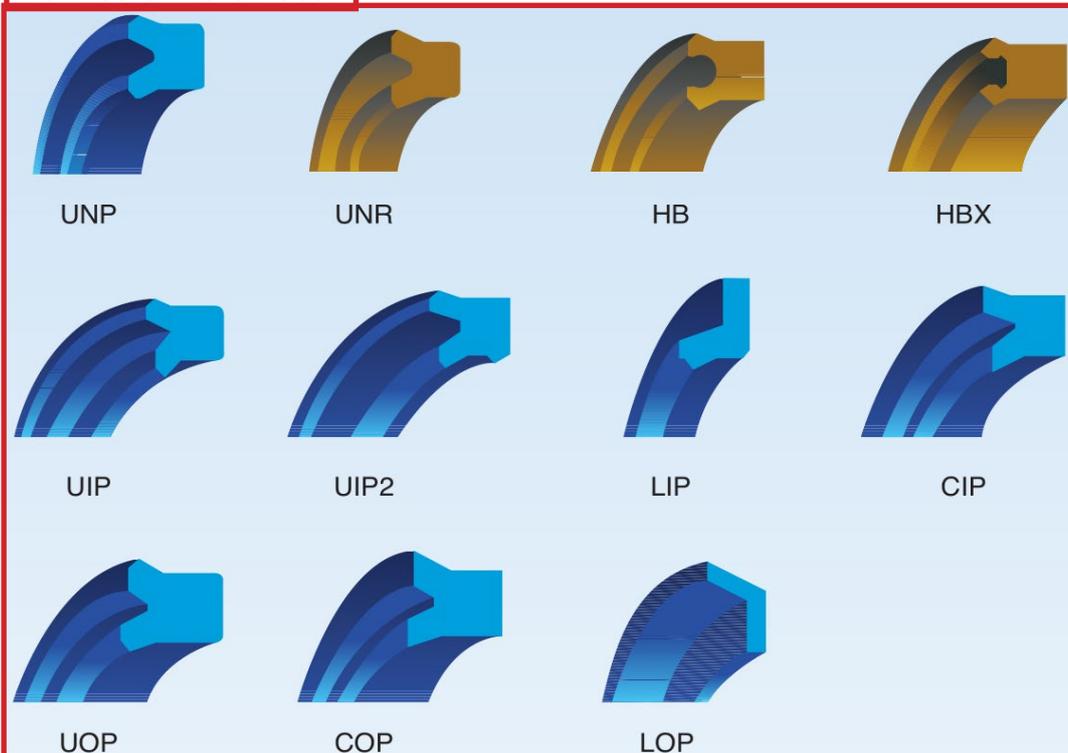
Technical Information

Sealing Design for the Hydraulic & Pneumatic Applications

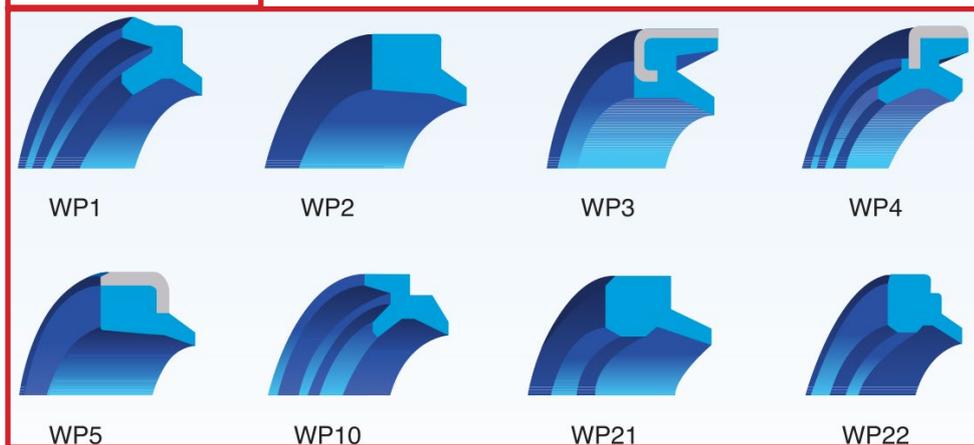
Technical Information

For Hydraulic and Pneumatic Seals, WSI provides various types and designs for customer selection.

WSI Rod & Piston Seal



WSI Wiper Seal



Application

Selection of Hydraulic and Pneumatic Seals



Sealing elements are vital in the hydraulic and pneumatic equipment. Their use is critical and they provide a way for the fluid power to be changed into liner motion. However, seal failure can be detrimental to the equipment, and so it is important to have the right seals installed. Selection of proper hydraulic and pneumatic seals is depending on the following factors:

Application-Hydraulic or pneumatic; piston or rod; surface conditions of shaft and housing bore; for use under dry running, lubrication, or without lubrication.

Size-Shaft outer diameter (seal inner diameter); bore diameter (seal outer diameter); axial cross section and radial cross section.

Temperature-Fluid temperature and operating temperature. Both average and peak temperatures should be taken into consideration.

Pressure-Static as well as dynamic pressure should be noticed. Maximum operating pressure is also an important parameter.

Linear Velocity-Number of cylinder strokes, maximum speed, etc.

Media / Fluid-Type of media, its volume, etc.



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