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An O-ring is a doughnut shaped ring, which is often molded from an elastomer. Parker O-rings are among the most popular products in this category owing to their secure sealing capabilities and durability. These rings are so named because they are O-shaped and are used in order to prevent air or water leakages where required. Since they are made of natural rubber or rubber-like material, they fit better than their metal counterparts and provide effective sealing functions.

Why Parker O-rings?

These rings are not only exceedingly effective in their sealing function, but also have the ability to withstand very high amounts of pressure (as high as 1000 PSI). They fit themselves very effectively in various cavities or grooves. They are available in various diameters, material composition and hardness. Depending on various machine designs, you can choose from a wide variety of O-rings. One of the most important advantages of these rings is that they can be re-used, giving you more value for your money. This is a clear advantage over non-elastic flat-seals or other gaskets. They are also tolerant to a range of temperatures making them suitable for use in different applications. Taking into consideration all these factors, these rings provide a much more cost-effective alternative to other types of rings and gaskets.

Applications of O-rings

These rings are used in several applications across different industrial sectors. For instance, they are used in oil and water pipelines to prevent leaks and spillages. Similarly, these rings are also used in the marine industry and petrochemical industry for myriad sealing applications. Other places where you might find O-rings being used are the food and beverage industry, pulp and paper industry, hospitals and research laboratories, aerospace, air condition sector and OEM facilities. Speaking specifically of their uses, these rings are used in hatch covers, bearings and autoclaves, compressors and engines, vacuum furnace seals and reactor vessels among several other things.

For applications that involve very high pressures and temperatures, piston seals are usually recommended. They are also used in hydraulic applications. They offer advantages such as low installation costs, high extrusion resistance, static as well as dynamic sealing functions etc.

Most sealing components are often used in conjunction with high quality sealants such as Parker Adhesives and sealants. They offer superior fastening services and are recommended for use with O-rings, calibration screws, threaded sealants etc. These adhesives and sealants offer varied levels of viscosity and breakaway torque.

When you decide to purchase Parker O-rings or other similar components like piston seals or Parker adhesives and sealants, you can uncomplicate the selection process by using specially designed software such as inPHorm. There are some leading manufacturers who offer this software.

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