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What are door hinges?

In the context of door hardware, a hinge is a device that connects two solid objects and at the same time allows for restricted movement between them. This movement is often restricted to only one direction. Heavy duty hinges are often installed for high capacity uses, and they are known to be very sturdy and long lasting. Even with repeated use, and the resultant wear, these hinges do not loosen up or get jammed. They continue to offer a consistently smooth fixed axis of rotation even years after they have been installed.

Types of hinges:

These hinges can be divided into two basic categoriesâ€"left side hinge and right side hinge. Distinguishing between both is relatively simple. The left hand hinge would be one that is on the left side when you are facing a hinge. If a hinge is on the left hand, the door is referred to as being â€˜left handedâ€™. The right hand hinge is exactly opposite to a left hand hinge. As a user, you need to choose an appropriate hinge based on your specific requirements.

Some common applications:

There are several common applications of heavy duty hinges. You are most likely to spot them on large gates and doors that have to bear constant use and heavy loads. Such hinges are suitable for use on lead filled radiation doors, gates and even vault doors. It is vital that these hinges are precisely manufactured and their components are perfectly aligned. Failing this, the performance of the hinge will likely be rickety or noisy.

Attributes of a high quality hinge:

The manufacturing and assembly process of regular as well as institutional hinges plays a pivotal role in determining their performance. If you are planning to purchase these door hardware components, it is important to ask if it comprises a hardened and precision ground alloy steel pin. This pin should turn on a sturdy needle bearing for years of uninterrupted performance. Also, it is vital that the hinge features seals that help in keeping grease/lubricants in and keep contaminants out. This attribute gains much importance if the hinge is being installed for outdoor use where it will be exposed to dust and wind.

Custom specifications:

If you find that your current door hinges do not meet your expectations or arenâ€™t in line with the points we have mentioned in this article, you could simply replace them. There are several suppliers and manufacturers that offer heavy duty hinges that can be easily interchanged. You could choose hinges with mounting holes or without mounting holes. The absence of mounting holes allows you to adhere to custom installation specifications. Both heavy duty and institutional hinges can be purchased without mounting holes.

In addition, you can also ask for custom specifications in your heavy duty hinges. For instance, you could request that these hinges be made from 304 or 316-stainless steel, and they could be plated per your choice, with custom holes.

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