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A valve is a mechanism that helps control or route the flow of a fluid. In most cases, the lack of proper valve function could lead to leakages or valve bursting. This makes it important to invest in valve parts that have a long service life and are not affected by the constant flow, opening and shutting and the internal pressure. It is for this reason that valve trims are often made of materials such as tungsten carbide. A valve trim comprises all the internal components of a valve such as the shafts, discs, screws, and bushings that come in direct contact with the passing fluid and the pressure generated therein.

As we know, there is constant pressure generated inside a valve, hence a metal that bends or gets scratched is not the most ideal choice. On the other hand, tungsten carbide is a metal that is known for its stiffnessâ€”it is up to three times harder than steel. This compound is a combination of the tungsten metal and carbon.

The hardness of carbide can be compared with that of sapphire. Moreover, this compound is also suitable for use at high temperatures and it reacts with only a few acids. This means that valves with carbide trimmings can also be used for transporting different chemicals through a pipeline. They can be also used for conveying pressurized liquids and high temperature fluids.

Following are just a few types of carbide components that can be used inside a valve:

Valve seats

Valve balls

Valve trim sets

Valve plates

Valve plugs

Since the flow control and instrumentation industries need to make use of high quality control devices, it is important to choose a valve trim supplier with relevant experience. Apart from that, valves are also used in other industries such as oil and gas, petrochemical, pulp and paper, heating ventilation and air conditioning industries.

The components used in such regulators are available in different sizes and are suitable for different industrial processes. If you are investing in a valve trim for the first time, it is advisable to seek the professional advice of an experienced and reputable manufacturer of such components. By making the right choice, you can be sure that your valves will function in the most corrosive, erosive and wear susceptible conditions. In addition, it is important to pressure test the components so as to eliminate the risks of cracks and leaks that could be potentially damaging.

Apart from valve trim, tungsten carbide is used for manufacturing several other components such as drill bits, surgical cutting instruments, nozzles, carbide balls, plug gages and many other components. In fact, this compound is also used for manufacturing jewelery.

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Technology has always fascinated the technician inside me. And writing about the latest in technologies and mechanisms in usage has been my forte over the last few years. Follow my write ups to know about the latest in technologies and mechanisms this season for one. This fall a tungsten carbide, a Valve Trim are very much in demand among the technical and mechanical industries across the world. Keep yourself updated on these products exclusively from USA.

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