



POWER PLANT SUPPLY CO CANADA PINCH VALVE REPLACEMENT SLEEVES

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Pinch valves control of fluids, wastewater, slurries, abrasives and corrosive chemicals. Pinch valves are constructed of a heavy-duty, rugged pinch mechanism that positions a sleeve. The valve offers maximum durability and ensures precise flow control in many industrial processes.

There are many types of pinch valves: JACO Pinch Valves, Red Valve, RKL Controls, Flexible Valve Corp, Onyx Valve, Elasto-Valve, Larox, Linatex and more. Inside every pinch valve is a sleeve and is crucial to the performance success of the valve. It enables a pinch valve to have a bi-directional, drop tight shut off to control flow. Most pinch valve sleeves are made of flexible elastomer compounds, many of which resemble rubber in composition and feel. Because a sleeve's composition is crucial to the success of the valve's application, valve manufacturers offer different elastomer options from which the sleeve can be constructed.

Commonly used in the **mining industry**, a pinch valve's tough construction makes it ideal for use on harsh and abrasive mining slurries. Pinch Valves are also a good choice for sludge and raw sewage control for **wastewater utilities**.

In the **Power Generation** industry, pinch valves are an important component used in lime and ash handling - two tough services commonly found within a power plant. The abrasion-resistant, self-cleaning, and flexible elastomer sleeve of a pinch valve won't scale, bridge, plug or freeze on slurries. Pinch valves can also work in the treatment and handling of corrosive chemicals. Because there is no packing to maintain and no cavities, seats, or cam action to bind valve operation, pinch valves are often used **in corrosive chemical applications**.

Pinch valves can also be used in **pulp and paper mills**. Pulp stock, coating and recycled paper lines are some of the most difficult applications for a valve. The flexible elastomer sleeve of a pinch valve is able to withstand these abrasive services. Pinch valves can also be a great asset in **food and beverage plants, cement/sand/silica factories, refineries**, pneumatic conveying, and scrubbing.



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Pure gum rubber pinch valve sleeves: are resilient and abrasion-resistant. They can handle a wide temperature range, from -50 F to 180 F, they are flexible, as well as non-marking. They are composed of natural rubber, and are most suitable for organic (or, carbon-based) acids, and mild chemical compounds, including alcohols. Strong acid and basic solutions, oils, and solvents are some of the chemicals that this type of pinch valve sleeve is ill-equipped to handle.

Neoprene pinch valve sleeves: are synthetic rubber sleeves composed of chloroprene polymers. They handle a slightly wider temperature range than pure gum rubber sleeves and work well with temperatures up to 220 F. Neoprene is chemically inert, and works best in the handling of moderate acids and other chemicals. Neoprene is strong and resilient enough to handle products containing ozone, as well as some oils and fats. Neoprene is resistant to abrasion; it can be eroded or weakened by oxidizing acids, ketone, ester, and chlorinated hydrocarbons.

Chlorobutyl elastomer pinch valve sleeves, or chlorinated butyl rubber compounds, handle major temperature ranges, from -60 F to 300 F. These sleeves are known for their good abrasion resistance and their ability to handle animal and vegetable fats. Other types of oils are too heavy for chlorobutyl elastomers to handle—as are solvents, which can break down the rubber.

Nitrile pinch valve sleeves (a triple-bonded carbon-nitrogen compound), Buna-N can be used to make sleeves suitable for -40F to 240 F temperature ranges. These types of sleeves can be useful in chemical manufacture and chemical engineering because they can handle chemicals and solvents. They are not suitable, however, for ozone, ester, ketone, or nitro/chlorinated hydrocarbons. Hypalon, a trademarked name for a chlorosulfonated polyethylene compound, is used to construct sleeves suitable for temperature ranges between -60 F and 275 F. This durable compound can handle quite strong acids and bases, as well as freon, ozone, alcohol compounds, and alkalines. This type of pinch valve sleeve should not be used with ketone, ester, or various aromatic and chlorinated hydrocarbons. Hypalon resists weathering quite well.

EPDM pinch valve sleeves (or ethylene propylene diene monomer) valve sleeves are excellent for use with fats and oils and can withstand temperature ranges between -60F and 300F. They should not be used to work with mineral oils or solvents. They also weather well. Viton, a type of synthetic rubber used commonly in O-rings, can also be used with animal and vegetable oils, as well as with acids. Though this type of sleeve performs poorly at temperatures lower than -10 F, it performs quite well at temperatures up to 400 F. Viton sleeves also display excellent tensile strength.

Replacement sleeves to fit many brand name pinch valves including; Red Valve, RKL Controls, Flexible Valve Corp, ONYX Valve, Elasto-Valve, Larox, Jaco, Linatex and more.

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