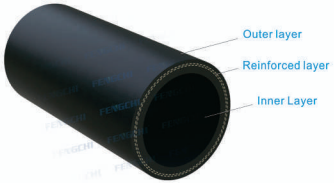
FENGCHI®

Cylindrical rubber valve sleeve

Introduction



Rubber sleeve is the most important component for any type of pinch valves, it is the core of pinch valve.
Rubber sleeve provides corrosion & wear resistance, and pressure bearing capacity. The quality of pinch valve is as good as the quality of its sleeve.

- Inner Layer: adopt various kinds of rubber materials or formulas in order to fit for the high demanding applications involving abrasion, corrosion or high temperature, etc.
- Reinforced layer: the perfect combination of synthetic rubber and synthetic fibre technology forms a unique reinforced skeleton, which enables the sleeve to bear pressure and fatigue.
- Outer layer: Using Natural Rubber to protect and reinforce the flexure resistance of valve sleeve.

Handmade

Each FENGCHI® pinch valve sleeve is handcrafted by professionally trained personnel, each sleeve is affixed with labels, which contains relevant parameters and numbers in order to provide a basis for quality traceability.

Sleeve material selection

RUBBER QUALITY	APPLICATION EXAMPLES	TEMPERATURE RANGE	TYPICAL MEDIA
SBRT Styrene Butadiene	Heavy wearing High cycle frequency	-40°C - +110°C	Abrasive materials Diluted acid, alkali and chemical applications
EPDM Ethylene Propylene	Chemical applications • Applicable to 75% of all industrial chemical applications	-40°C - +120°C	Concentrated and oxidizing chemicals
NR Natural Rubber	High wear applications	-40°C - +75°C	Abrasive materials Diluted acids, alkali and chemicals
NRL Wet natural rubber	Strong abrasive and corrosive conditions (including slurries)	-40~+75℃	Abrasive pulp such as ore pulp. Weak acid, weak base and other chemical media
NRF Natural Rubber Foodstuff Quality White inner lining	Foodstuff applications Fulfils FDA (Food and Drug Administration) requirements	-40°C - +75°C	Media used in food and other CIP (clean-in-place) processes Alcohols
NBR Nitrile Rubber	Applications involving oils, fats and hydrocarbons	-30°C - +100°C	Oils, Fats, Fuels Hydrocarbon, Lubricants
HNBR Hydrogenated Nitrile	High temperature Applications	-30°C - +160°C	Oils, Fats, Fuels Hydrocarbon, Lubricants
NBRF Nitrile Rubber White inner lining	Applications involving fatty foodstuff Fulfils FDA (Food and Drug Administration) requirements	-30°C - +100°C	Vegetable and animal oils and fats
CR Chloroprene Rubber	Special-purpose chemical applications • Resilient to ozone and averse weather	-40°C - +100°C	Chemicals, Acids Several solvents Aliphatic oils Fats, Lubricants
FPM Fluorine Rubber	Special-purpose chemical applications • Resilient to ozone and averse weather	-20°C - +120°C	Chemicals Aliphatic oils Aromatic and halogenated hydrocarbon
CSM Chloro-sulphoneethylene (Hypalon®)	Special-purpose chemical applications • Resilient to ozone and averse weather	-40°C - +100°C	Chemicals, Acids Several solvents Aliphatic oils Fats, Lubricants
IIR Butyl	Special-purpose chemical applications • Impermeable to gas	-40°C - +100°C	Concentrated and acidic chemicals Vegetable oils
PU Polyurethane • With PU lining or solid PU	Abrasive media applications	-10°C - +80°C	Abrasive materials Diluted chemicals Hydrocarbons Oils, Lubricants