



DUAL PINCH VALVE SLEEVES (DPVS)

The core of the **DUAL** Pinch Valve is the rubber sleeve, which is the only part in contact with the medium. The full bore sleeve integrates the valve perfectly to the pipeline, eliminates turbulence and minimizes pressure losses. Technologically advanced sleeves guarantee high wear and corrosion resistance, a trouble free operation and extended lifetime. The sleeves are well suited for on/off throttling control applications involving slurries, powders, liquids, granulated materials and applications where scale build is a problem.



FEATURES

- Excellent wear resistance
- High corrosion resistance
- No turbulence
- No flow resistance
- Reduces process downtime
- Long operating lifetime
- Full bore, low friction loss
- 100% drip tight closure even with solids in the medium
- Light weight
- Flexible
- Self-cleaning
- Multilayer construction
- Steel reinforcing for higher pressures
- 100% tight
- Only the sleeve is in contact with the medium
- Numerous elastomer compounds
- Special sleeve designs

PRODUCT SPECIFICATION

ELASTOMER SLEEVE MATERIALS:	Gum black and red rubber, EPDM, Butyl, Chlorobutyl, Neoprene, Polyurethane, Viton and Hypalon
SIZE RANGE:	50mm - 1500mm / 1/2" - 60"
PRESSURE RATING:	From vacuum to 100Bar
FLANGE TYPE:	Full face or D ring
SLEEVE INTERNALS:	Resistant to wear and chemicals
MATERIAL CERTIFICATION:	Certified chemical and physical test reports can be supplied.
VALVE TYPE:	Rising and non rising spindle
TEMPERATURES:	-50°C to +120°C

SLEEVE DESIGN

Pinch Valves are commonly applied in aggressive, abrasive and corrosive medium types or in high pressure applications. To withstand these conditions Dual sleeves are handmade, layer by layer, in a quality process.



High grade sleeve materials range from wear resistant styrene butadiene to numerous other elastomers and rubber compounds. They are highly resistant to abrasive/ corrosive slurries, powders and granular substances.

SPECIALISED SLEEVE DESIGNS

Several sleeve design options such as a conical sleeve for control valves and a vacuum sleeve for negative pressure applications are available.

Suction Sleeve

Specially designed for negative pressure applications such as suction lines and for applications where sleeve pulsations occur.

Conical Sleeve

Conical sleeves ensure the most accurate control in flow control applications.

Sensomate Sleeve

Sensomate sleeves detect and signal critical wear.

Polyurethane (PU) Lined Sleeves

Sleeves with polyurethane lining ensure improved protection against wear.

APPLICATIONS

- Mining and mineral processing.
- Power generation.
- Sand and gravel.
- Chemical and soda ash.
- Pulp and paper.

ACTUATORS

All types of actuators can be fitted, electric, gearbox, hydraulic, pneumatic and handwheel.

SLEEVE MATERIAL

Dual offers the following alternative sleeve materials, providing chemical and abrasive resistance to most media such as:

- Polyurethane.
- Natural red rubber.
- Natural black rubber.
- Neoprene rubber.
- Nitrile rubber.
- EPDM rubber.
- Reduced port sleeve for throttling applications.



ALTERNATIVE SLEEVE MATERIAL OPTIONS

RUBBER QUALITY	APPLICATION EXAMPLES	TEMPERATURE RANGE	TYPICAL MEDIA
NBR Nitrile Rubber	Oils, fats and hydrocarbon	-30°C to +100°C	Oils, fats, fuels, hydrocarbon, lubricants
NR Natural Rubber	High wear applications	-50°C to +75°C	Abrasive materials, diluted acids, alkali and chemicals
HNBR Hydrogenated Nitrile	High temperature applications	-30°C to +160°C	Oils, fats, fuels, hydrocarbon, lubricants
NRF Natural Rubber Foodstuff Quality White Inner Lining	Foodstuff applications. Fulfil FDA (Food and Drug Administration requirements)	-40°C to +75°C	Media used in food and other CIP (clean-in-place) processes, alcohol
NBRF Nitrile Rubber White Inner Lining	Applications involving fatty foodstuff Fulfil FDA (Food and Drug Administration requirements)	-30°C to +100°C	Vegetable and animal oils and fats
EPDM/B Ethylene Propylene Rubber	Pulp and paper industry's green liquor application	-40°C to +100°C	Green liquor, alkaline and extraneous matter in green liquor processes
CR Chloroprene Rubber	Special- purpose chemical applications • Resilient to ozone and adverse weather	-40°C to +100°C	Chemical, acids, several solvents, aliphatic oils, fats and lubricants
FPM Fluorine Rubber (Viton®)	Special- purpose chemical applications • Resilient to ozone and adverse weather	-20°C to +120°C	Chemicals, aliphatic oils, aromatic and halogenated hydrocarbon
CSM Chloro-Sulphate-Ethylene Rubber (Hypalon®)	Special- purpose chemical applications • Resilient to ozone and adverse weather	-40°C to +100°C	Chemicals, acids, several solvents, aliphatic oils, fats and lubricants
IIR Chloro-Butyl Rubber	Special- purpose chemical applications • Impermeable to gas	-40°C to +100°C	Concentrated and acidic chemicals, vegetable oils
PU Polyurethane Lined Sleeve	Abrasive medium applications	-10°C to +80°C	Abrasive materials, diluted chemicals, hydrocarbon oils and lubricants