

DUAL STRAIGHT-THROUGH PINCH VALVE



FEATURES

The Dual Pinch Valves double-ended enclosed body with easily replaceable, flexible rubber sleeves.

- Thrust bearing for ease of opening and closing (handwheel type).
- Long operating life.
- Full bore, low friction loss.
- 100% drip tight closure even with solids in the medium.
- Light weight.
- Seals in both directions.
- High flexibility sleeve design reduces closing forces, improves recovery to full open position.
- Enclosed body protects the sleeve from the environment.
- Fast and easy sleeve change.
- Single wearing part.
- Rising and non rising spindle types.
- Positive opening tags.
- Open/closed sight glass indicator.

DUAL's Straight-Through Pinch Valve consists of a tough, but flexible full bore sleeve, which forms part of the pipeline. The valve is closed mechanically via movement of a pinch valve gate located above the sleeve. The core of the Dual Straight-Through Pinch Valve is the sleeve. The valves are well suited for on/off and throttling control applications involving slurries, powders, liquids, granulated materials and applications where scale build is a problem.

FACE TO FACE COMPATIBLE WITH DIAPHRAGM VALVES

PRODUCT SPECIFICATION

BODY: Cast Aluminium, Cast SG Iron, Stainless Steel enclosed body type.

ELASTOMER SLEEVE: Gum Rubber, Red Rubber, EPDM, Butyl, Chlorobutyl, Neoprene, Polyurethane, Viton and Hypalon.

SIZE RANGE: 50mm - 350mm.

PRESSURE RATING: 16 Bar (For higher pressure consult factory).

THRUST BEARINGS: To reduce operating torque (handwheel type).

FLANGED: Drilled to SABS, ANSI, BS or DIN.

VALVE INTERVALS: 304 Stainless Steel spindles, Rubber Sleeve and Cast Aluminium Pinch Gate (Plunger).

TEMPERATURE: -50°C to 80°C.

MATERIAL CERTIFICATION: Certified chemical and physical test reports can be supplied.

VALVE TYPE: Rising and non rising spindle.

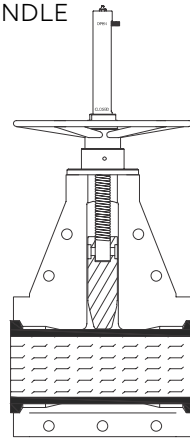
PNEUMATICALLY ACTUATED VALVE



HOW THE VALVE OPERATES

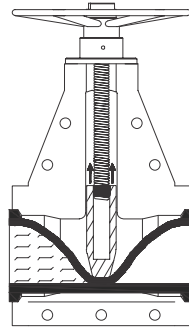
As the valve cycles downwards, the Pinch Mechanism will start to compress the soft rubber sleeve, from the top of the valve only, Therefore achieving a 100% drip tight closure, even with solids in the medium.

RISING SPINDLE

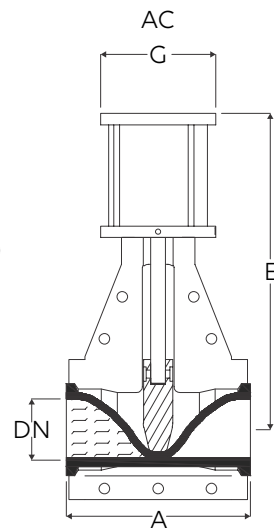
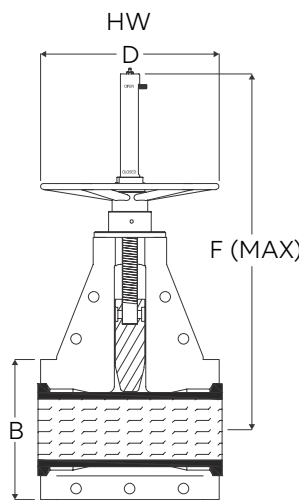


Open

NON-RISING SPINDLE



Closed



APPLICATIONS

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

ACTUATORS

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



DIMENSIONS AND WEIGHTS

VALVE SIZE DN	A - BS5156 FACE TO FACE (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	WEIGHT (kg)	
								HW	AC
50	190	165	85	300	435	230	100	20	25
80	254	200	105	300	545	290	100	30	35
100	305	220	120	400	650	320	160	40	45
125	356	250	130	400	780	400	160	50	60
150	406	285	140	400	850	450	250	60	70
200	521	340	175	500	900	600	300	110	120
250	635	405	205	500	1000	950	300	200	210
300	747	460	250	600	1200	1150	350	300	350
350	749	520	300	600	1400	1300	400	450	500

Dimensions and weights are for guidance only - detailed dimension drawings available on request. All dimensions are in millimeters, unless stated.



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