

DUAL PNEUMATIC PINCH VALVE

DUAL's Pneumatic Valve consists of a tough, but flexible full bore sleeve in an enclosed body. Actuated by means of air or Hydraulic Fluid, the valve body acts as an Actuator. When the media is introduced, the sleeve is compressed forming a complete and effective seal.



FACE TO FACE COMPATIBLE WITH DIAPHRAGM VALVES

FEATURES

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

- Valve can be installed in any position.
- Housing acts as a built-in actuator.
- 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 reducing closing forces, improves recovery to full open position.
- Enclosed body protects the sleeve from the environment and contaminants in the event of sleeve failure.
- Fast easy sleeve change.
- Single wearing part.
- No glands which require regular adjustment.
- Pneumatic or hydraulic medium can be used to operate the valve.
- Ideal for remote operations.

PRODUCT SPECIFICATION

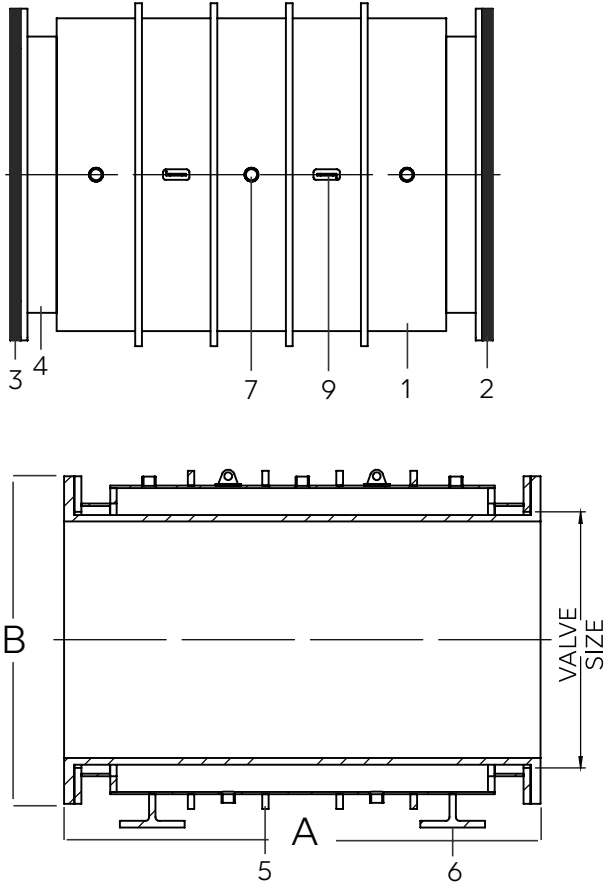
- BODY:** Cast Aluminium, Cast SG Iron, Stainless Steel enclosed body type.
- ELASTOMER SLEEVE:** Gum Black Rubber, EPDM, Chlorobutyl, Neoprene, Viton and Hypalon.
- SIZE RANGE:** 50mm - 350mm.
- PRESSURE RATING:** 10 Bar (For higher pressure consult factory).
- FLANGED:** Drilled to SABS, ANSI BS or DIN.
- TEMPERATURE:** -50°C to 80°C.
- MATERIAL CERTIFICATION:** Certified chemical and physical test reports can be supplied.



HOW THE VALVE OPERATES

The valve closes by means of air or hydraulic pressure placed on the sleeve, through the top of the valve housing. The valve body acts as a built-in actuator.

NOTE: Air pressure must be vented from the valve to permit operating.



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.

	PARTS	DESCRIPTION
1	Valve Body	Carbon Steel / Stainless Steel
2	Rubber Sleeve	Chemical And Abrasive Resistant
3	Flange	Carbon Steel / Stainless Steel
4	Pipe	Carbon Steel / Stainless Steel
5	Valve Body Support	Carbon Steel / Stainless Steel
6	Stand	Carbon Steel / Stainless Steel
7	NPT Air Connection	Carbon Steel / Stainless Steel
8	Bolts & Nuts	Cadmium Plates / High Tensile
9	Lifting Lugs	Carbon Steel / Stainless Steel

DIMENSIONS AND WEIGHTS

VALVE SIZE (mm/inch)	FACE TO FACE (A)	B (mm)	C (BSP)	WORKING PRESSURE (bar)	WEIGHT CAST IRON (kg)
400/16"	1200	600	1/2"	4	630
450/18"	1350	700	1/2"	4	700
500/20"	1500	800	1/2"	4	870
600/24"	1500	900	1/2"	4	1000
700/28"	1500	1000	1/2"	4	2000
750/30"	1500	1200	1/2"	4	4000
950/36"	1800	1500	1"	4	5000
1200/48"	2438	1800	1"	4	6000
1500/60"	3048	2000	1"	4	8000
1800/72"	3657	2534	1"	2	10037
2100/84"	4267	2800	1"	2	12000

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

APPLICATIONS

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



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