

# STURDY VAC ENGINEERING LTD

Specialists in Industrial Vacuum Cleaners & Accessories

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## Mancuna Vacuum Valve

The Mancuna Vacuum Valve is a non mechanical pinch type vacuum valve providing a low cost airtight seal for the discharge end of hoppers or any type of dust collector operating under negative pressure. It is rapidly replacing mechanical type seals such as rotary valves because of the following advantages:

- Automatic Operation
- It requires no power
- The design ensures an absolute seal.
- No mechanical parts to adjust or wear out.
- Replaces expensive mechanical valves
- Automatically maintains in hopper, or dust collector



Photographs shows 8" & 10" Mancuna Valve with Door panel removed



Photographs shows 8" & 10" Mancuna Valve showing Funnel and Rubber Sleeve

### Construction and Principle of Operation

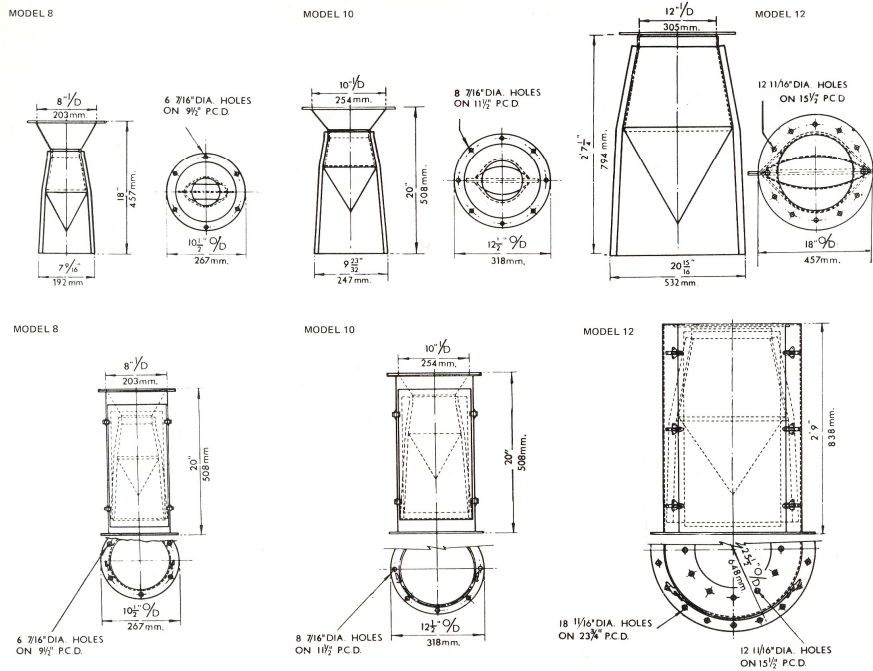
The basic design of the Mancuna Valve consists of two parts only, a flanged steel funnel, and a flexible rubber sleeve. The sleeve is held in a collapsed condition by the negative pressure under which the dust collector operates. The weight of the collected material above the valve builds up until the head is sufficient to force it through the valve. The seal is then automatically re-created. Each size can be supplied with or without a steel housing incorporating a removable panel. Normally the sleeve consists of neoprene rubber which is resistant to most chemicals and will withstand temperatures up to 121°C (250°F). For higher temperatures the 8" and 10" sizes can be supplied with sleeves in vamac, a synthetic rubber, with a maximum working temperature of 180°C (356°F) or silicone rubber, 205°C maximum (400°F).

### Range of Sizes

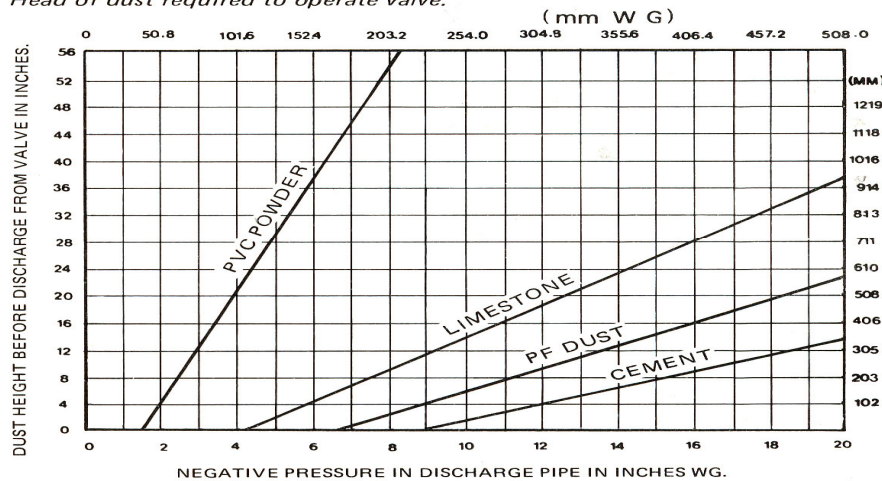
The Mancuna Valve is produced in three sizes, with inlet diameters of 8in. (203mm), 10in. (254mm) or 12in. (305mm).

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Head of dust required to operate valve.



## Principal of operation

1. Valve shut. Due to negative pressure existing in hopper bin etc.
2. Valve open. As head of material has built up to overcome the negative pressure.
3. Valve shut. Until head of material builds up.

