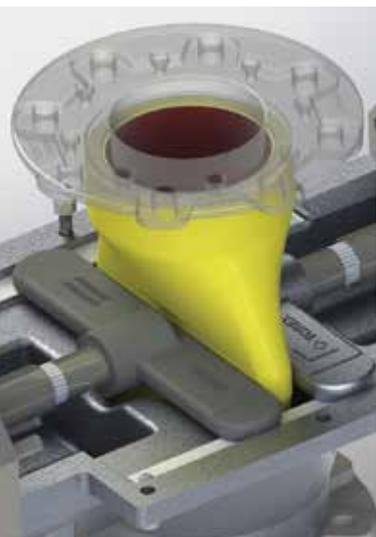


# Mechanical Pinch Valves

VMM



## HIGH PERFORMANCE SHUT-OFF VALVE FOR PNEUMATIC CONVEYING SYSTEMS FOR POWDERS, GRANULES OR DENSE MIXTURES

VMM Pinch Valves are used for material flow interception in pneumatic conveying systems, or other pipelines. In addition, they can be installed as a locking device for silo filling pipes.

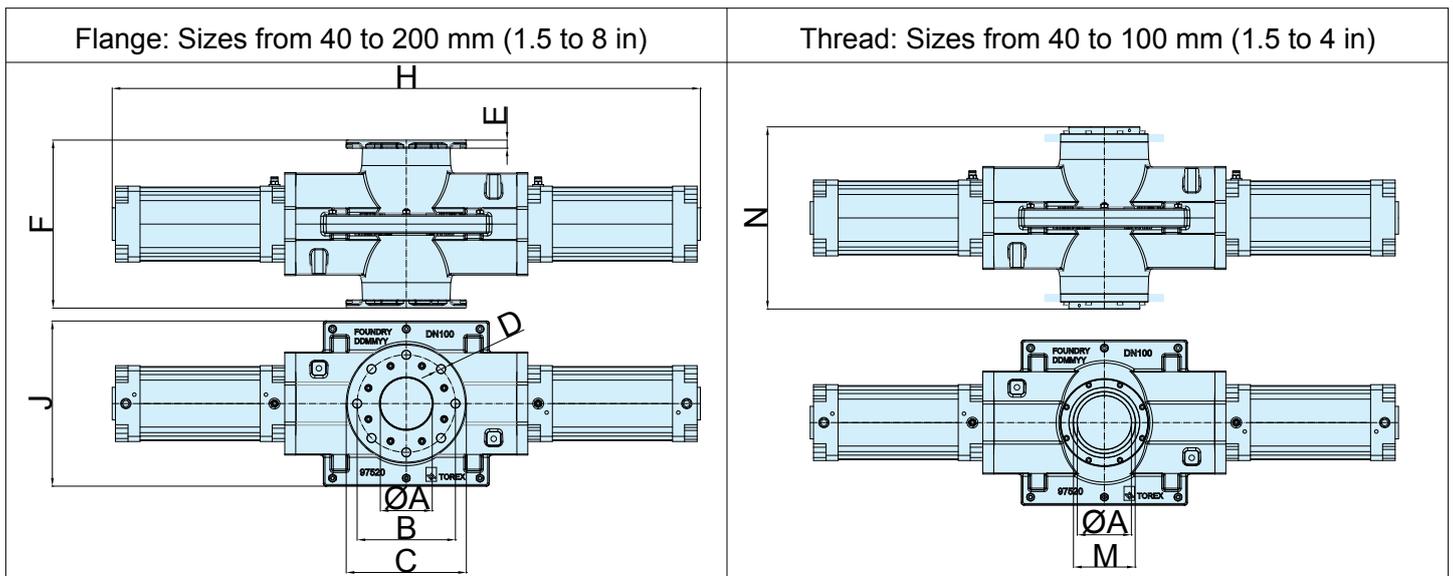
By introducing compressed air into the two single action air cylinders, the internal flexible sleeve is kept open. In case of no presence of air, the cylinders will reshape the sleeve in such a way that the passage is hermetically sealed.

VMM Pinch Valves can equally handle pneumatically conveyed powders, granules, fibres, dense mixtures and liquids.

### Features

- Passage Diameter:  
40 mm (1 ½") – 50 mm (2") – 65 mm (2 ½") – 80 mm (3") – 100 mm (4") – 125 mm (5") – 150 mm (6") – 200 mm (8")
- Working Temperature: from -20 °C ~ 80 °C (-4 °F ~ 176 °F)
- Ambient Temperature: max. 50 °C (122 °F)
- Pi Internal Max. Pneumatic Conveying System Pressure: 3 bar (43.5 PSI); 2 bar (29 PSI) for VMM 150 and VMM 200
- Pc Closure Control Pressure for Air Cylinders: 7 bar (101.5 PSI)

### Overall Dimensions



| Size | Flange: Sizes from 40 to 200 mm (1.5 to 8 in) |     |    |     |      |     |     | Thread: Sizes from 40 to 100 mm (1.5 to 4 in) |     |        | DIN Flange  |     |         | Threaded Bushes |   |         | U.S. Flange |  |  |
|------|---|-----|----|-----|------|-----|-----|---|-----|--------|-------------|-----|---------|-----------------|---|---------|-------------|--|--|
|      | A   | C   | E  | F   | H    | J   | N   | B   | D   | Qty. D | M (ISO 228) | B   | D (UNF) | Qty. D          | B | D (UNF) | Qty. D      |  |  |
| 40   | 40  | 150 | 12 | 178 | 850  | 210 | 202 | 110   | M16 | 4      | 1 + ½"      | -   | -       | -               | - | -       | -           |  |  |
| 50   | 50  | 165 | 15 | 190 | 860  | 225 | 214 | 125   | M16 | 4      | 2"          | 121 | 5/8"    | 4               | - | -       | -           |  |  |
| 65   | 65  | 185 | 15 | 225 | 880  | 250 | 230 | 145   | M16 | 4      | 2 + ½"      | -   | -       | -               | - | -       | -           |  |  |
| 80   | 80  | 200 | 15 | 270 | 1130 | 280 | 294 | 160   | M16 | 4      | 3"          | -   | -       | -               | - | -       | -           |  |  |
| 100  | 100   | 220 | 15 | 310 | 1150 | 305 | 334 | 180   | M16 | 8      | 4"          | 180 | 5/8"    | 8               | - | -       | -           |  |  |
| 125  | 125   | 250 | 15 | 350 | 1380 | 370 |     | 210   | M16 | 8      | -           | 216 | ¾"      | 8               | - | -       | -           |  |  |
| 150  | 150   | 285 | 18 | 396 | 1410 | 410 |     | 240   | M16 | 8      | -           | 241 | ¾"      | 8               | - | -       | -           |  |  |
| 200  | 200   | 340 | 25 | 460 | 1570 | 500 |     | 295   | M16 | 8      | -           | -   | -       | -               | - | -       | -           |  |  |

Dimensions in mm

## Benefits

- ✓ Easy, quick sleeve and bush replacement;
- ✓ Full bore-through passage without any pressure loss;
- ✓ No material contact between casing and material handled;
- ✓ Lightweight in comparison with other makes and other types of valve;
- ✓ Particularly low air consumption;
- ✓ Food-grade contact parts.

### 1 CASING



Aluminium-cast

### 2 SLEEVES



Anti-abrasion natural rubber

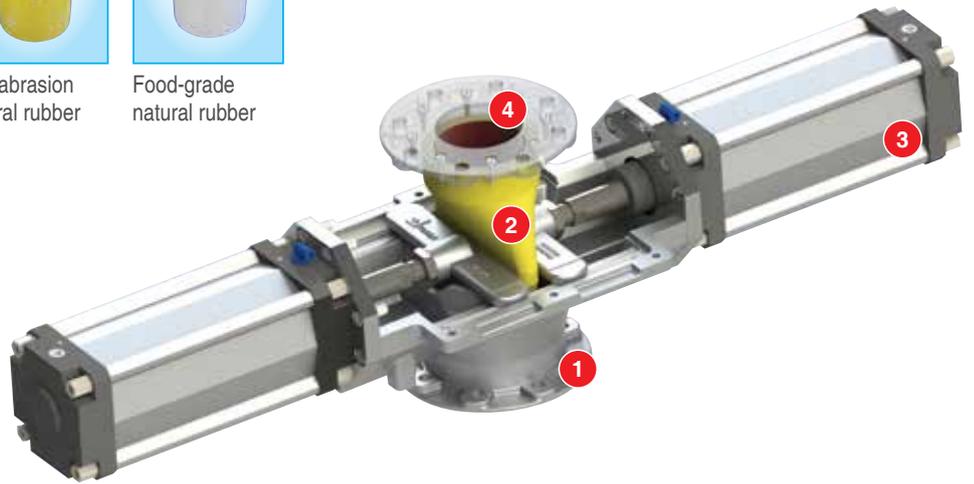


Food-grade natural rubber

### 3 AIR CYLINDERS



Closure control pressure for AIR cylinders: 7 bar (101.5 PSI)



### 4 CONNECTIONS

#### FLANGES AND BUSHES



FLANGES:  
- Aluminium

BUSHES:  
- Aluminium  
- Hardened Steel  
- 304 SS

Available for passage diameter from 40 to 200 mm (1.5 to 8 in)

#### GASKETS



Standard black



Food-grade white

#### THREADED BUSHES



Available for passage diameter from 40 to 100 mm (1.5 to 4 in)

THREADED BUSHES:  
- Aluminium  
- Nickel-coated  
- 304 SS

## Accessories

The Control Panel is designed for:

- Control air supply to "VMM" by solenoid valve;
- Adjusting "VMM" closing pressure;
- Providing information on pressure line to "VMM" by means of a pressure switch.

### Control Panel VMX



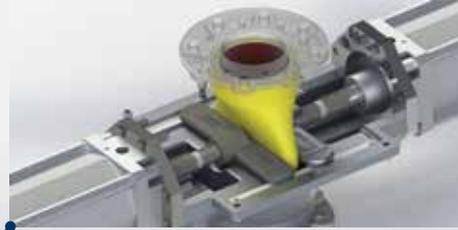
Standard version

### Control Panel VMX01M



ATEX-certified Ex II 3D T135°C  
Working temperature: -5 ~ 40 °C (23 ~ 104 °F)

# Application



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They can also be installed as a locking device for silo filling pipes.



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