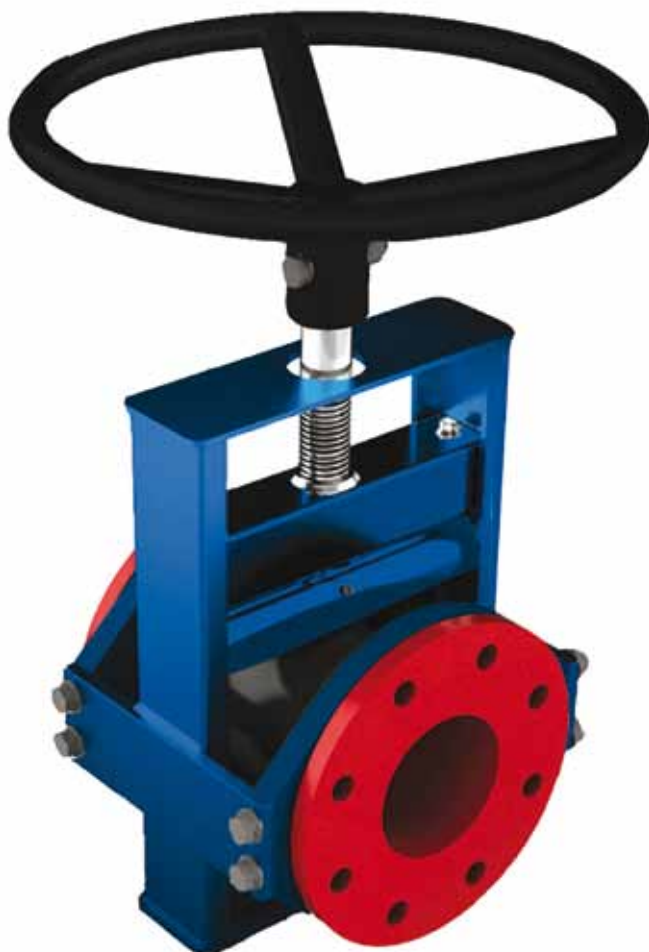


## The Isogate® MP OB series valves feature a weight saving fabricated steel body that allows for easy pinch sleeve replacement

Isogate® mechanical pinch open body valves are designed to provide reliable service in the toughest, most abrasive and corrosive slurry applications.

A lightweight, compact package, together with easily replaceable sleeves and an open body design, provide ease of maintenance and low total ownership cost. Using Linatex® premium elastomers, the Isogate® MP OB series is a low maintenance, cost effective valve.



### Applications

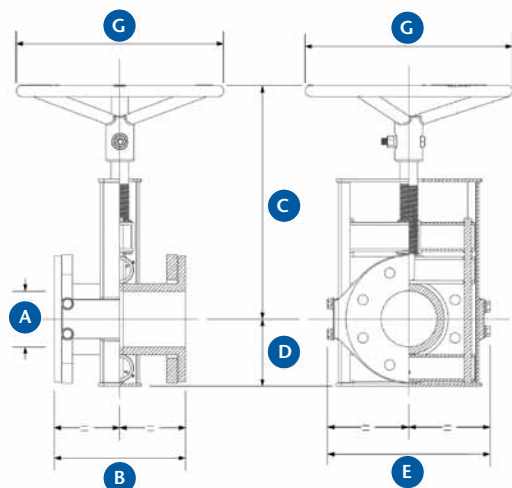
Isogate® MP OB series valves are suitable for a wide range of applications including:

- Mining
- Power utilities
- Pulp and paper
- Chemical
- Sand and gravel
- General industrial
- Phosphates
- Soda ash
- Alumina
- Mineral sands
- Coal

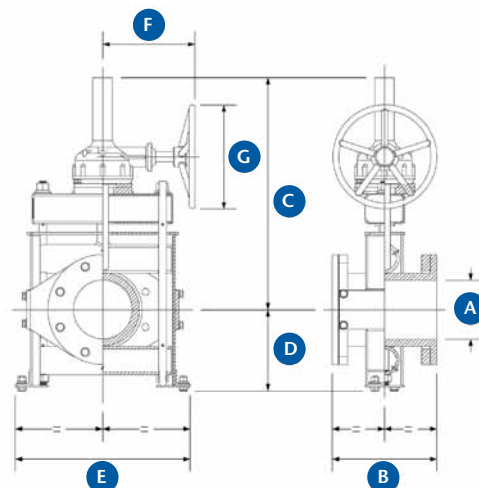
### Design benefits

- Linatex® premium rubber is the standard sleeve material. EPDM and other materials are also available.
- Lightweight, heavy duty structural steel open body make installation and maintenance easy.
- Heavy duty pinch mechanism requires low input force for smooth hand wheel operation at maximum working pressures.
- Centre pinch operation and flexible pinch sleeve construction designed to ensure accurate flow control and long sleeve life.
- Sleeves are easily replaced.
- Sleeves include integral end flange gaskets designed to ensure leak tight installation into process piping.
- Full port design reduces pressure drop and downstream turbulence.
- Bi-directional shut off.
- Sleeves are available in a variety of materials to handle abrasive and chemical applications.

## Isogate® MP OB series specifications



**Sizes 15mm to 125mm (½" - 6")**



**Sizes 150mm to 600mm (6" - 24")**

### Isogate® MP OB Series

| Size<br>A | Length<br>B  | Height<br>Max. C | Drop<br>D   | Width<br>E   | Offset<br>F | Dia<br>G  | Max. WP<br>psi/kPa | Weight<br>lbs/kg |
|-----------|--------------|------------------|-------------|--------------|-------------|-----------|--------------------|------------------|
| inches/mm | inches/mm    | inches/mm        | inches/mm   | inches/mm    | inches/mm   | inches/mm |                    |                  |
| .50 / 15  | 5.38 / 137   | 8 / 204          | 2 / 52      | 4.75 / 120   | N/A / N/A   | 6 / 165   | 150 / 1035         | 11 / 5           |
| .75 / 20  | 5.38 / 137   | 8 / 204          | 2 / 52      | 4.75 / 120   | N/A / N/A   | 6 / 165   | 150 / 1035         | 11 / 5           |
| 1 / 25    | 5.38 / 137   | 8 / 204          | 2.13 / 57   | 4.75 / 120   | N/A / N/A   | 6 / 165   | 150 / 1035         | 11 / 5           |
| 1.25 / 32 | 6.38 / 162   | 9.13 / 233       | 2.75 / 68   | 6.63 / 170   | N/A / N/A   | 6 / 165   | 150 / 1035         | 18 / 8           |
| 1.50 / 40 | 6.38 / 162   | 9.13 / 233       | 2.88 / 73   | 6.63 / 170   | N/A / N/A   | 6 / 165   | 150 / 1035         | 18 / 8           |
| 2 / 50    | 6.88 / 175   | 10.38 / 265      | 3.13 / 80   | 7.38 / 187   | N/A / N/A   | 6 / 165   | 150 / 1035         | 20 / 9           |
| 2.50 / 65 | 7.38 / 188   | 13.75 / 349      | 3.75 / 95   | 8.63 / 220   | N/A / N/A   | 9 / 220   | 150 / 1035         | 33 / 15          |
| 3 / 80    | 7.88 / 200   | 14.50 / 354      | 4 / 105     | 10 / 255     | N/A / N/A   | 9 / 220   | 150 / 1035         | 44 / 20          |
| 4 / 100   | 9.13 / 232   | 17 / 430         | 4.75 / 120  | 11.5 / 290   | N/A / N/A   | 15 / 370  | 150 / 1035         | 57 / 26          |
| 5 / 125   | 10.13 / 257  | 19.50 / 494      | 6.75 / 170  | 14.38 / 365  | N/A / N/A   | 25 / 625  | 150 / 1035         | 73 / 33          |
| 6 / 150   | 10.13 / 264  | 27 / 685         | 8.13 / 207  | 17.50 / 445  | 9.25 / 236  | 10 / 250  | 150 / 1035         | 132 / 60         |
| 8 / 200   | 15.88 / 402  | 38.75 / 985      | 10.25 / 259 | 22.50 / 570  | 11.88 / 302 | 12 / 300  | 125 / 865          | 224 / 102        |
| 10 / 250  | 20 / 510     | 41.75 / 1060     | 12.75 / 322 | 25.88 / 657  | 14.25 / 362 | 12 / 300  | 100 / 690          | 295 / 134        |
| 12 / 300  | 23.88 / 606  | 45.88 / 1165     | 13.75 / 347 | 30.25 / 768  | 16 / 406    | 16 / 400  | 100 / 690          | 409 / 186        |
| 14 / 350  | 27.88 / 707  | 50.63 / 1286     | 17.25 / 440 | 36.63 / 930  | 20.25 / 513 | 16 / 400  | 75 / 520           | 524 / 238        |
| 16 / 400  | 31.88 / 809  | 53.63 / 1363     | 18.50 / 470 | 40.13 / 1020 | 22 / 559    | 16 / 400  | 50 / 345           | 612 / 278        |
| 18 / 450  | 35.88 / 910  | 58.38 / 1482     | 21 / 535    | 44.50 / 1130 | 24.25 / 617 | 20 / 500  | 50 / 345           | 781 / 355        |
| 20 / 500  | 39.75 / 1011 | 64 / 1623        | 23.63 / 600 | 49.50 / 1260 | 26 / 659    | 20 / 500  | 50 / 345           | 946 / 430        |
| 24 / 600  | 47.75 / 1214 | 68.63 / 1743     | 25.75 / 655 | 56.13 / 1425 | 29.13 / 740 | 25 / 630  | 50 / 345           | 1313 / 597       |

### Size range

Available in a range of sizes from 15mm to 600mm (1/2" - 24")

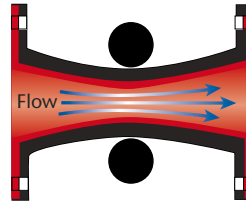
### Maximum working pressures

|                                 |                  |
|---------------------------------|------------------|
| Sizes 15mm - 150mm (1/2" - 6")  | 1035kPa (150psi) |
| Size 200mm (8")                 | 865kPa (125psi)  |
| Sizes 250mm & 300mm (10" & 12") | 690kPa (100psi)  |
| Size 350mm (14")                | 520kPa (75psi)   |
| Sizes 400mm - 600mm (16" - 24") | 345kPa (50psi)   |

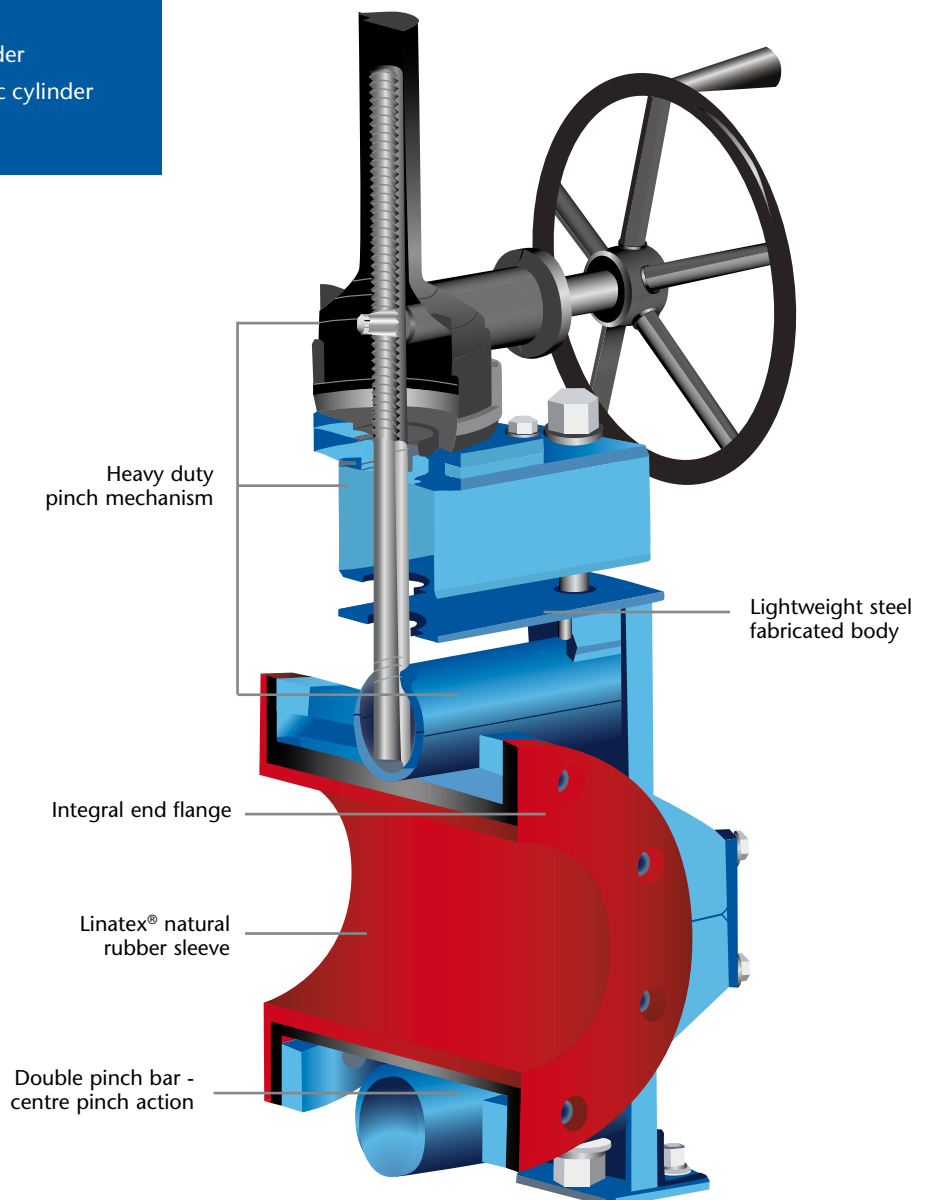
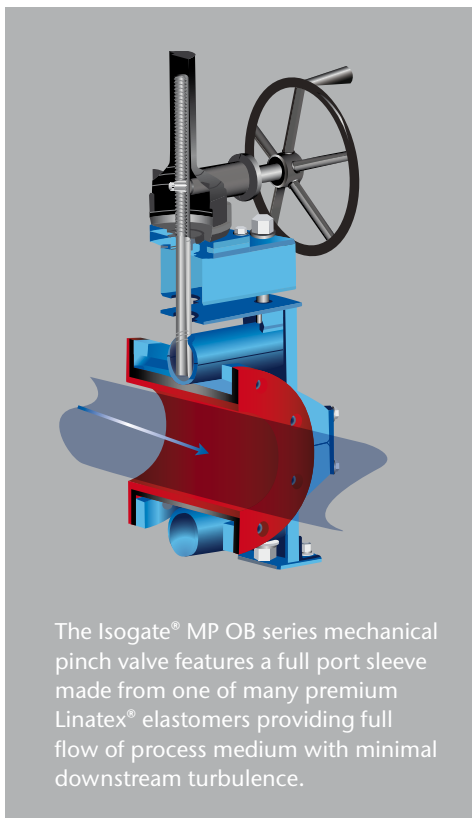
### Actuators

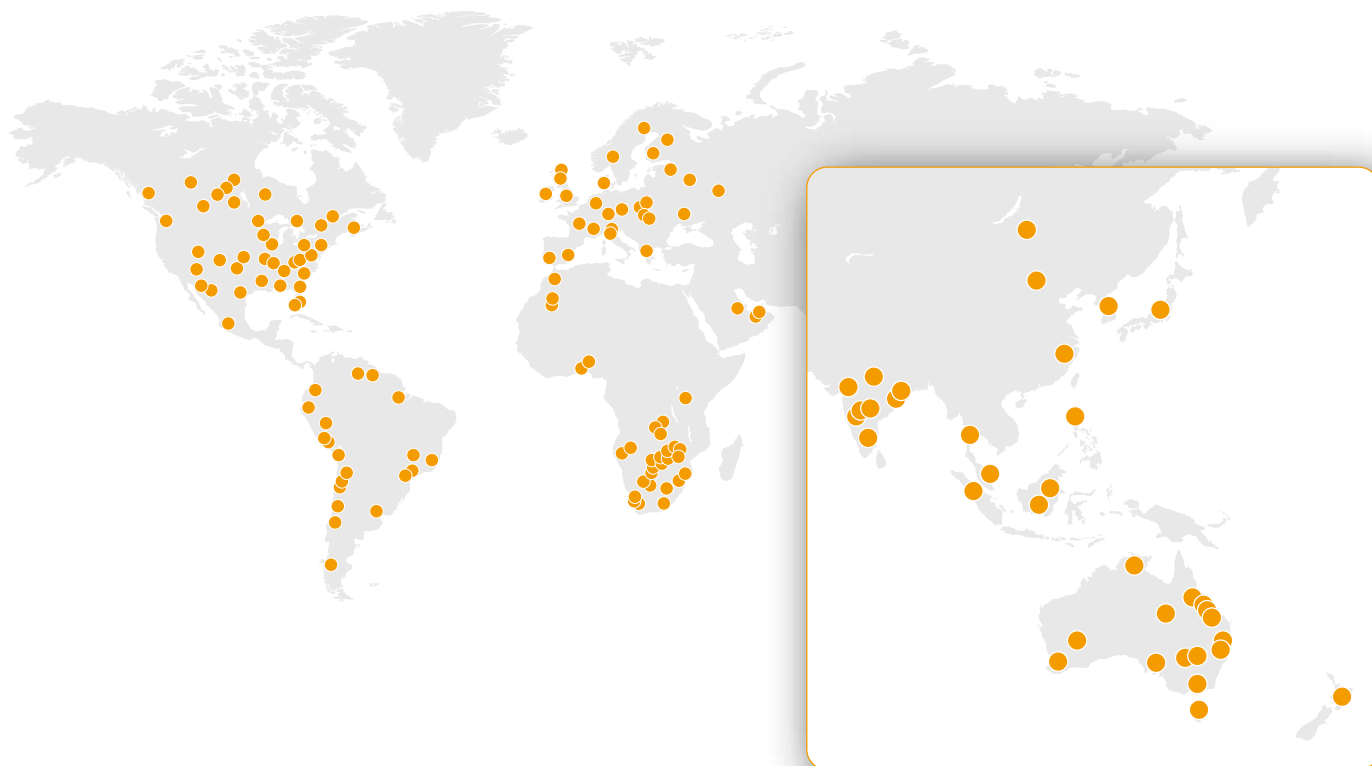
- Hand wheel
- Bevel gear
- Electric motor
- Air cylinder
- Hydraulic cylinder

### Flow pattern through double pinch mechanical pinch valve in throttling position



- Throttled flow
- Uniform flow pattern
- Minimal turbulence





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SERVICES™**

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