

Isogate® MP CB series valves provide reliable service in harsh, abrasive and corrosive applications

Isogate® mechanical pinch closed body valves are designed to provide positive control of abrasive and corrosive flowing media.

Using Linatex® premium elastomers, this valve combines cost effective, low maintenance design with a wide range of available materials. An enclosed, protective housing with easily replaceable sleeves provides ease of maintenance, splash protection and low total ownership cost.



Applications

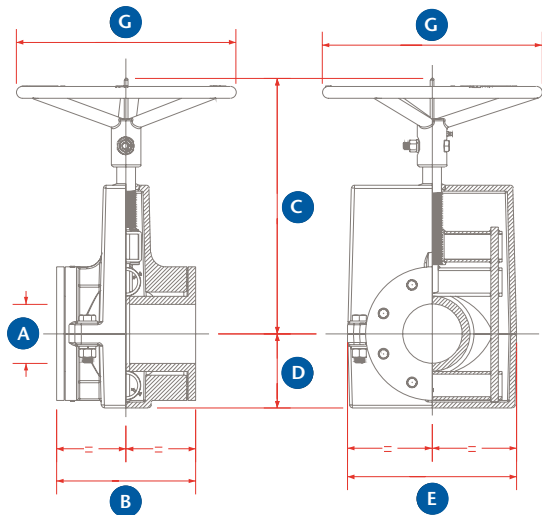
Isogate® MP CB series valves are suitable for a wide range of applications including:

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

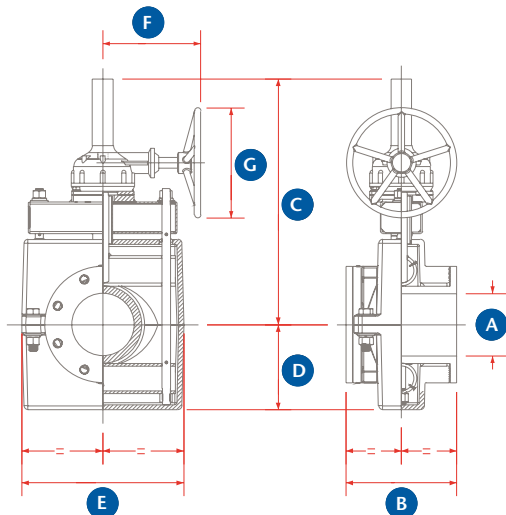
Design benefits

- Linatex® premium rubber is the standard sleeve material. EPDM and other materials are also available.
- Heavy duty cast iron closed body protects mechanical parts from corrosive environments and provides splash protection.
- 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 CB series specifications



Sizes 15mm to 100mm (½" - 4")



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

Isogate® MP CB Series									
Size A	Length B	Height Max. C	Drop D	Width E	Offset F	Dia G	Max. WP	Weight Iron	Weight Alum
inches/mm	inches/mm	inches/mm	inches/mm	inches/mm	inches/mm	inches/mm	psi/kPa	lbs/kg	lbs/kg
.50 / 15	5.38 / 137	8 / 204	2.25 / 57	4.75 / 120	N/A / N/A	6 / 165	150 / 1035	17 / 8	10 / 4
.75 / 20	5.38 / 137	8 / 204	2.25 / 57	4.75 / 120	N/A / N/A	6 / 165	150 / 1035	17 / 8	10 / 4
1 / 25	5.38 / 137	8 / 204	2.25 / 57	4.75 / 120	N/A / N/A	6 / 165	150 / 1035	17 / 8	10 / 4
1.25 / 32	6.38 / 162	9.13 / 233	2.75 / 70	6.50 / 165	N/A / N/A	6 / 165	150 / 1035	27 / 12	14 / 6
1.50 / 40	6.38 / 162	9.13 / 233	2.88 / 73	6.50 / 165	N/A / N/A	6 / 165	150 / 1035	28 / 13	14 / 6
2 / 50	6.25 / 175	10.38 / 265	3.38 / 85	7.13 / 180	N/A / N/A	6 / 165	150 / 1035	34 / 16	17 / 8
2.50 / 65	7.38 / 188	13.38 / 334	3.88 / 100	8.63 / 220	N/A / N/A	9 / 220	150 / 1035	51 / 23	30 / 14
3 / 80	7.38 / 200	14.50 / 369	4.38 / 110	9.63 / 245	N/A / N/A	9 / 220	150 / 1035	71 / 32	39 / 18
4 / 100	9.13 / 232	16.88 / 430	4.88 / 125	11.25 / 285	N/A / N/A	15 / 370	150 / 1035	96 / 43	54 / 24
6 / 150	10.13 / 264	27 / 685	8.13 / 205	15.38 / 390	9.25 / 236	10 / 250	150 / 1035	188 / 86	121 / 55
8 / 200	15.88 / 402	38.75 / 985	10 / 255	19.25 / 490	11.88 / 302	12 / 300	125 / 865	320 / 145	201 / 91
10 / 250	20 / 510	41.75 / 1060	12.38 / 315	23.25 / 590	14.25 / 362	12 / 300	100 / 690	455 / 207	276 / 126
12 / 300	23.88 / 606	45.88 / 1165	13.38 / 340	26.75 / 680	16 / 406	16 / 400	100 / 690	625 / 284	372 / 169
14 / 350	27.88 / 707	50.63 / 1286	17.25 / 440	36.63 / 930	20.25 / 513	16 / 400	75 / 520	524 / 238	515 / 234
16 / 400	31.88 / 809	53.63 / 1363	16.38 / 417	36 / 915	22 / 559	16 / 400	50 / 345	1025 / 466	560 / 255
18 / 450	35.88 / 910	58.38 / 1482	18.88 / 478	40.75 / 1035	24.25 / 617	20 / 500	50 / 345	1397 / 635	759 / 345
20 / 500	39.75 / 1011	64 / 1623	21.75 / 554	44.13 / 1120	26 / 659	20 / 500	50 / 345	1553 / 706	833 / 379
24 / 600	47.75 / 1214	68.63 / 1743	23.75 / 604	50.38 / 1280	29.13 / 740	25 / 630	50 / 345	2368 / 1077	1252 / 569

Size range

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

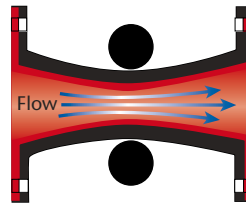
Maximum working pressures

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

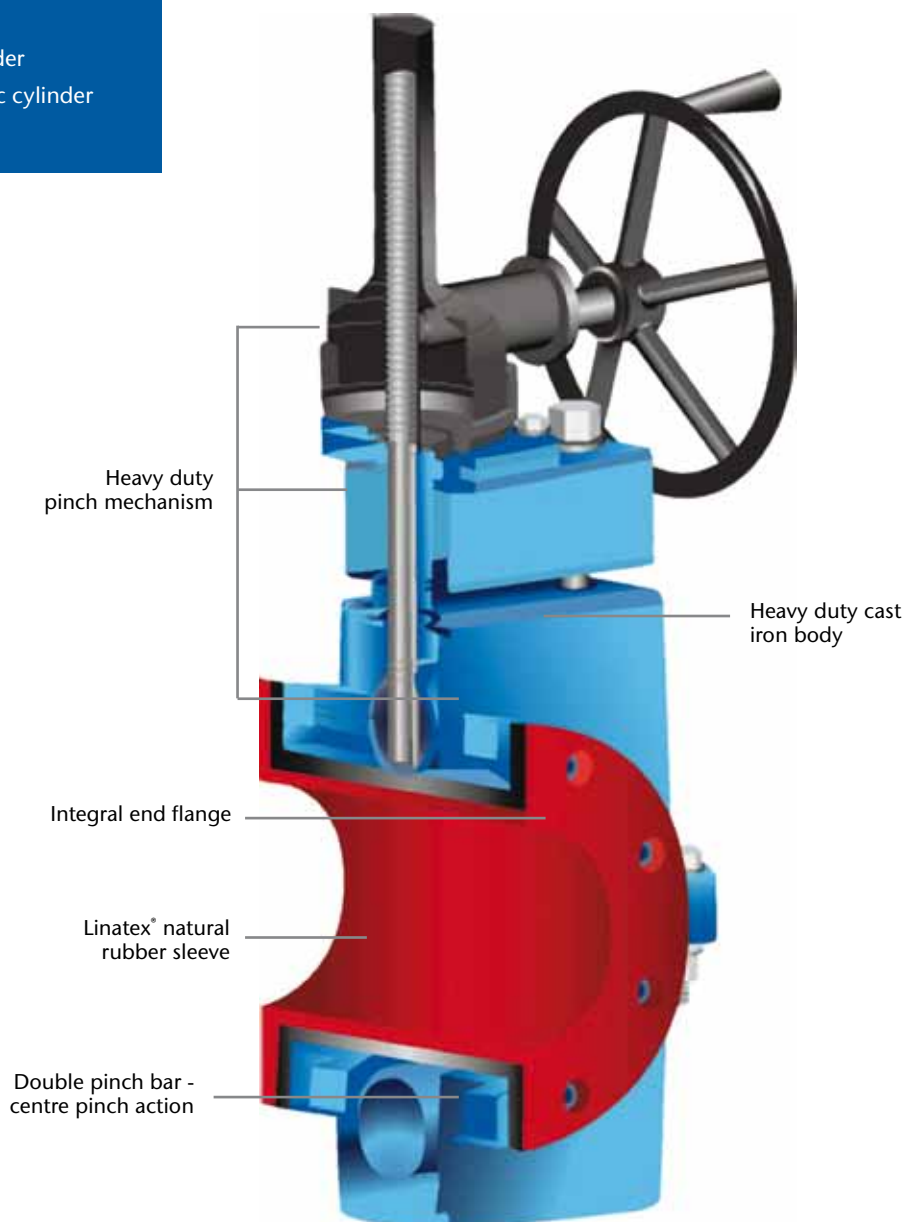
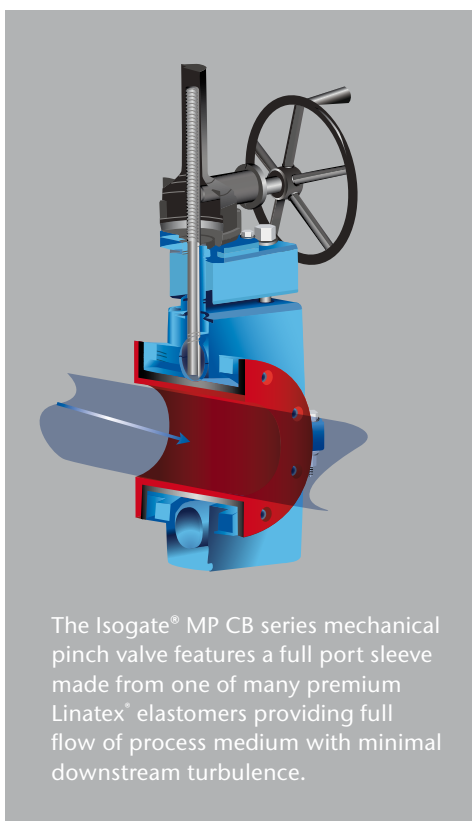
Actuators

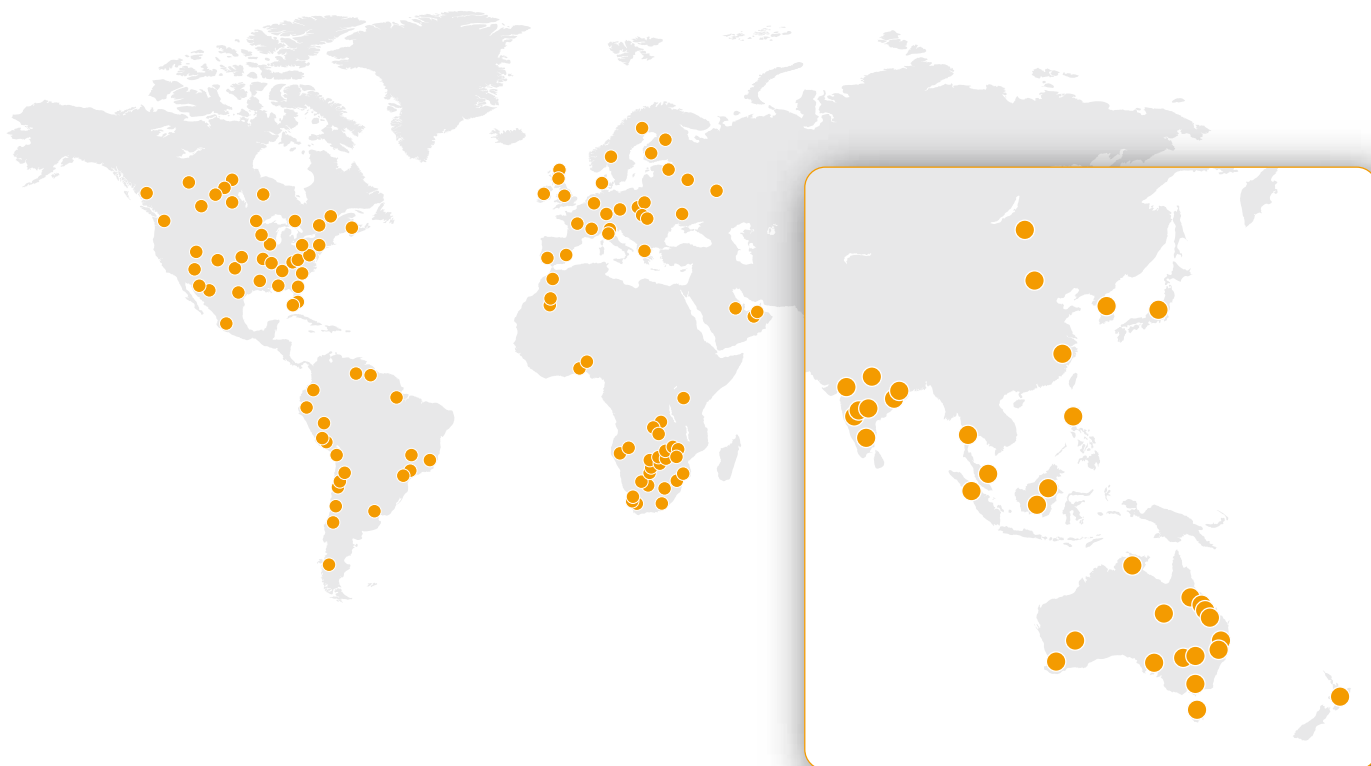
- Hand wheel
- Bevel gear
- Electric motor
- Air cylinder
- Hydraulic cylinder

Flow pattern through double pinch mechanical pinch valve in throttling position



- Throttled flow
- Uniform flow pattern
- Minimal turbulence





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