GALASSI&ORTOLANI

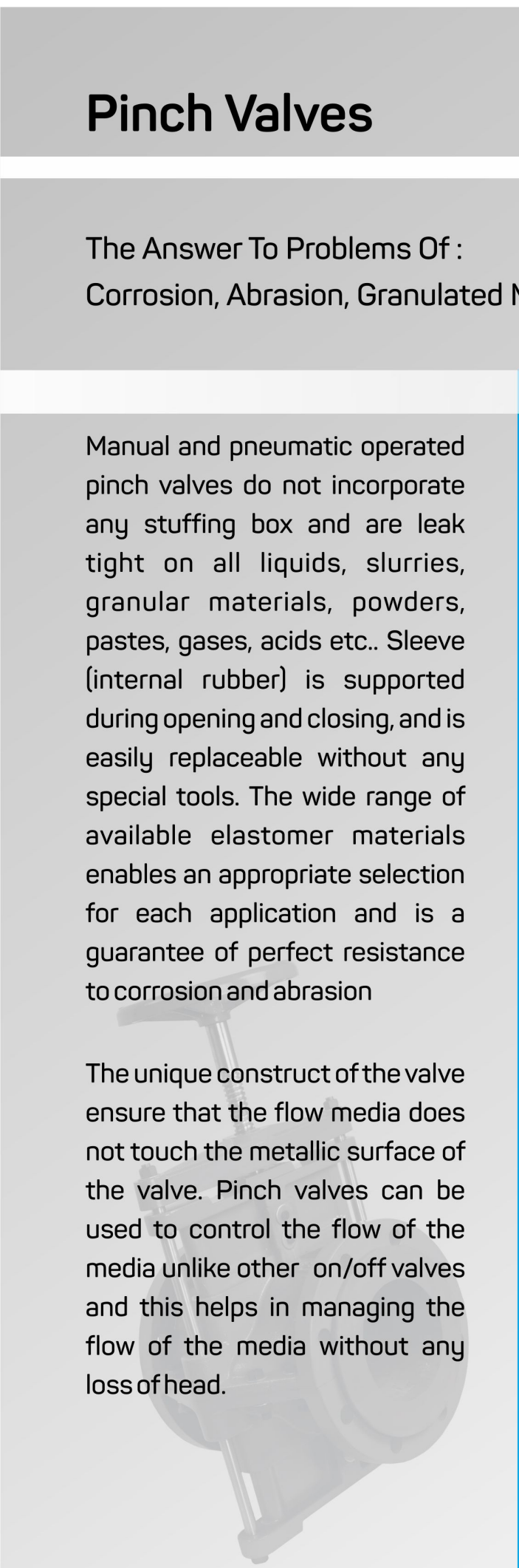
Pinch Valves
Diaphragm Valves

Pinch Valves

The Answer To Problems Of :
Corrosion, Abrasion, Granulated Materials, Powders, Sludge, Gas Etc

Manual and pneumatic operated pinch valves do not incorporate any stuffing box and are leak tight on all liquids, slurries, granular materials, powders, pastes, gases, acids etc.. Sleeve (internal rubber) is supported during opening and closing, and is easily replaceable without any special tools. The wide range of available elastomer materials enables an appropriate selection for each application and is a guarantee of perfect resistance to corrosion and abrasion

The unique construct of the valve ensure that the flow media does not touch the metallic surface of the valve. Pinch valves can be used to control the flow of the media unlike other on/off valves and this helps in managing the flow of the media without any loss of head.



Product Features

- Straight through way
- Sizes from 1" through 12"
- Flanged valves according to UNI PN 10 and ANSI / ASME 150#
- Manual, Pneumatic and Electric

Performance Features

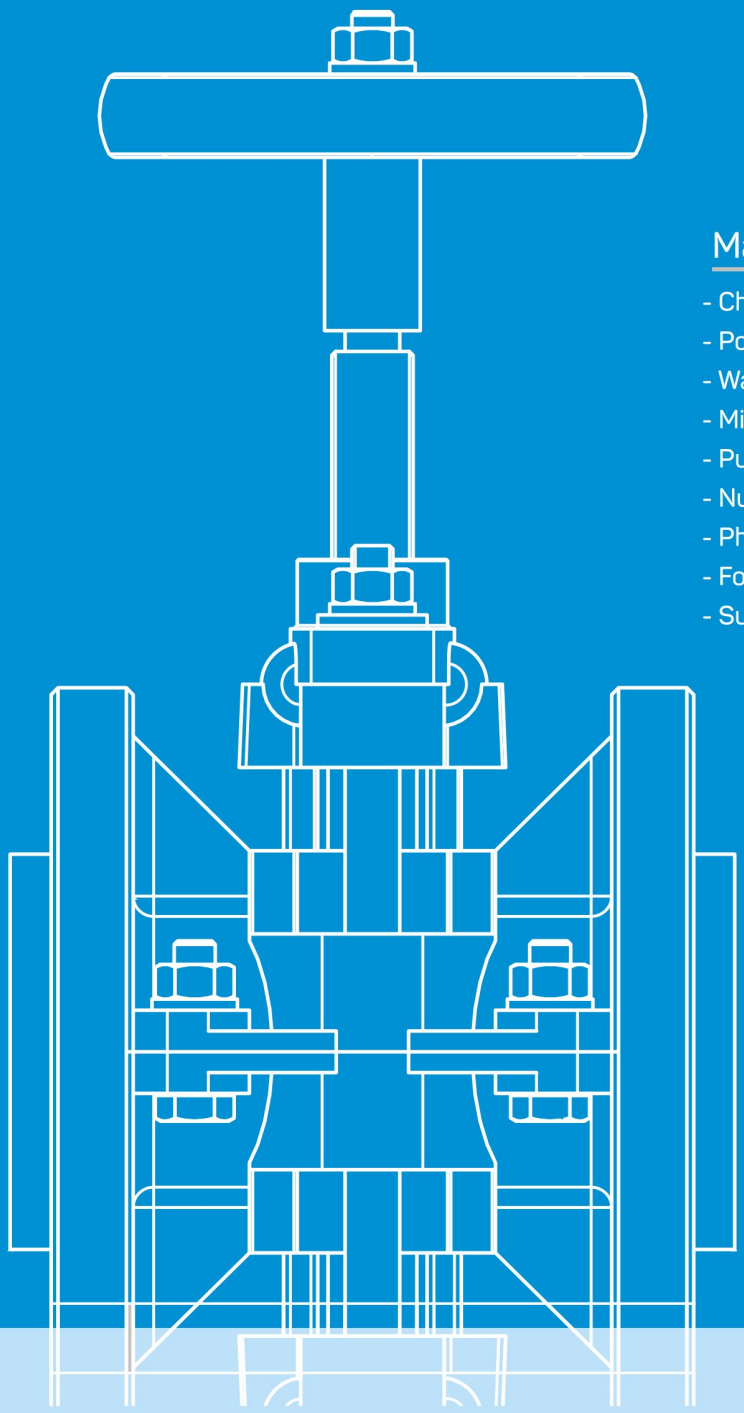
- No loss of head
- Faultless sealing on liquids, fluid suspensions, granulated materials, powders, sludge, gas, etc.
- No packing
- Quick and easy replacement of sleeve, no special tooling required
- Sleeve supported during opening and closing: hence the possibility of under vacuum operation
- No maintenance
- Long durability
- Threaded spindles and side tie rods in Stainless Steel
- Cylinders in Aluminium and specially treated cylinder springs on Pneumatic models
- Powder coated valve bodies

Body Materials

- Cast Iron GJL 250 / Cast Iron A126
- Spheroidal Graphite Cast Iron GGG40 / Ductile Iron ASTM A 395

Materials of Sleeves

- Natural rubber
- White natural rubber
- Neoprene
- EPDM
- Viton
- Butyl
- Nitrile
- Hypalon
- Silicone
- Neoprene Silicon (mixed)

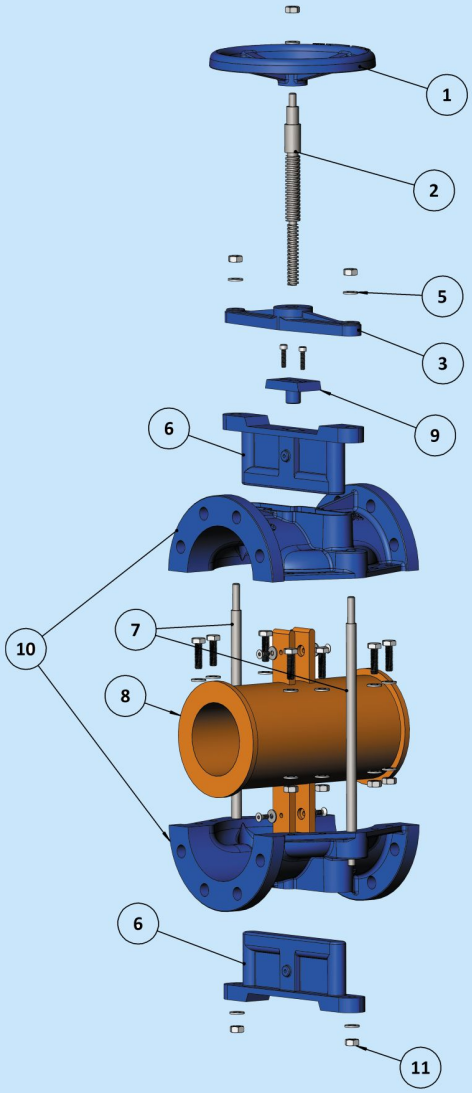


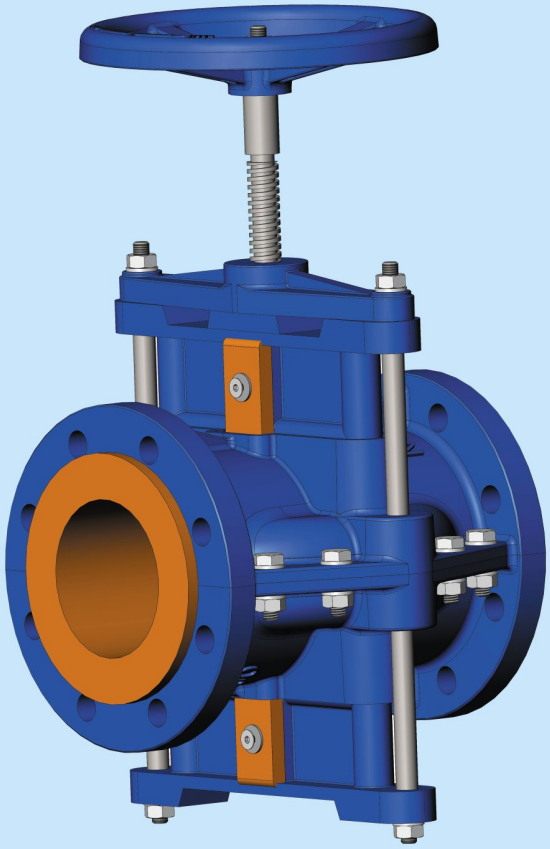
Major Markets Served

- Chemical Process
- Power Generation
- Water Treatment
- Mining
- Pulp & Paper
- Nuclear
- Pharmaceutical
- Food & Beverage
- Sugar

Model GS 1
PINCH VALVES

GS 1 is G&O's traditional proven Pinch Valve model which has an open design. The specialty of this valve is that the pinching mechanism happens from both top & bottom at the same time whilst controlling the media.

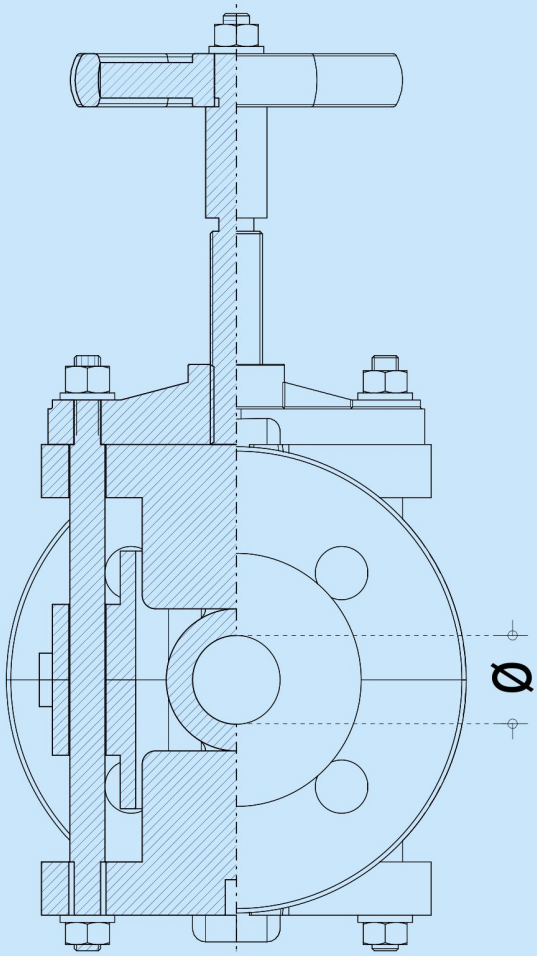


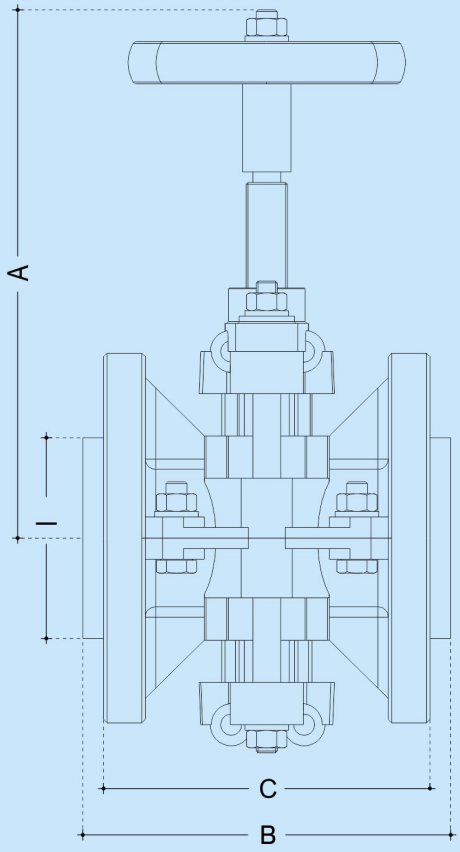


S.No	Description	Material
1	Hand Wheel	Aluminium
2	Lead Screw	SS 304
3	Support	Brass
4	Hexagon Bolt	Carbon Steel
5	Washer	Carbon Steel
6	Plug	Al Si 12 CU ALUMINIUM (Lm20)
7	Tie Rod	SS 304
8	Rubber Sleeve	Natural Rubber/Neoprene/EPDM/ Neoprene-Silicon Mixed/Viton
9	Upper Bushing	Brass
10	Valve Body	Cast Iron / Ductile Iron
11	Hexagon Nut	Carbon Steel

Pressure Details UNI _ 1284		
DN ("/mm)	WORKING PRESSURE Kg / CM^2	WORKING PRESSURE IN PSI
1" / 25	4	60
1½"/ 40	4	60
2" / 50	4	60
2½" / 65	4	60
3" / 80	3	45
4" / 100	3	45
5" / 125	3	45
6" / 150	3	45
8" / 200	3	45

Weight	
LBS	Kgs
8	3.60
18	8.00
23	10.30
30	13.60
40	18.00
57	26.00
88	40.00
112	51.00
159	72.00





DIMENSIONS IN INCHES / MM				
Ø	A	B	C	I
1" / 25	6.30 / 160	4.65 / 118	4.17 / 106	2.36 / 60
1½"/ 40	8.35 / 212	6.06 / 154	5.51 / 140	3.46 / 88
2" / 50	9.17 / 233	6.93 / 176	6.30 / 160	4.02 / 102
2½" / 65	9.65 / 245	7.64 / 194	7.09 / 180	5.12 / 130
3" / 80	11.02 / 280	8.46 / 215	7.72 / 196	5.83 / 148
4" / 100	12.99 / 330	10.83 / 275	10.24 / 260	6.22 / 158
5" / 125	16.34 / 415	11.83 / 300	11.02 / 280	7.80 / 198
6" / 150	17.52 / 445	12.99 / 330	11.81 / 300	8.74 / 222
8" / 200	21.65 / 550	14.76 / 375	13.78 / 350	11.73 /298

Actuators & Accessories

Actuators

- Hand Wheel
- Gear Box
- Pneumatic
  Single Acting
  Double Acting
- Electrical

Accessories

- Solenoid Valves
- Positioner
- Limit Switch
- AFRL
- Air Lock Relay
- Volume Booster
- Proximity Switch / Sensors etc ...

TYPICAL RUBBER SLEEVE SELECTION AND APPLICATION

Material	Application	Temp. range °C	Hardness in Shore-A
Natural rubber	Midly acid resistant	-30 to 80	65 – 75
Natural rubber	Abrasion resistant	-30 to 80	60 – 70
Natural rubber	Highly abrasion resistant	-30 to 80	50 – 60
White natural rubber	Food & Pharmaceuticals	-10 to 80	55 – 65
Neoprene rubber	Diluted acid resistant	-25 to 95	65 – 75
Neoprene rubber	Water treatment	-25 to 95	60 – 70
Neoprene rubber	Caustic soda	-25 to 95	60 – 70
Butyl rubber	Steam sterilisation	-25 to 115	60 – 70
Nitrile rubber	Oils & Fats	-10 to 90	65 – 75
Hypalon rubber	Acid resistant	-15 to 110	60 – 70
Epdm rubber	Radio active materials	-30 to 128	60 – 70
Viton rubber	Aromatics chlorine	-10 to 178	60 – 70
Viton rubber	High temperatures	-10 to 178	60 – 70
Silicone rubber	High temperatures	-100 to 220	60 - 70

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