

TECHNICAL DATA

CONTROL PINCH VALVE



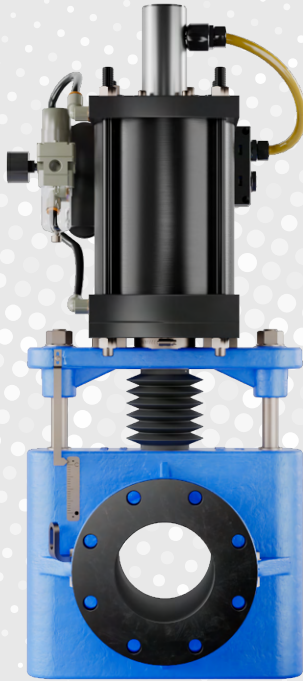
ARNETT
ENGINEERED SOLUTIONS

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61 INNOVATION DRIVE, BAMBERG, SC 29003

(844) 785-7585 | SALES@ARNETT.COM

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CLOSED BODY CONTROL PINCH VALVE

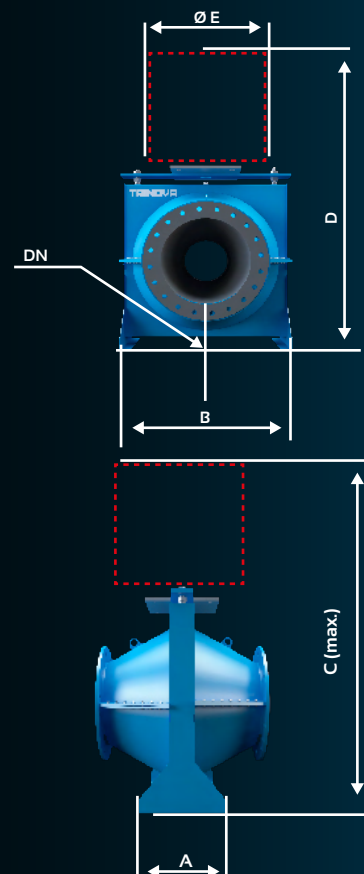


The CPV Control Pinch Valve is a heavy-duty enclosed body with bore center line closure valve that employs elastomer sleeves for flow shut-off and control in applications with abrasive and corrosive slurries.

The sleeve is the only part in contact with the media, no other mechanical parts are required, and it is a maintenance free part.

FEATURES:

- BI-DIRECTIONAL OPERATION, BOTH FOR ON/OFF AND THROTTLING SERVICE.
- BODY TO BE FABRICATED STEEL.
- AIS AVAILABLE UPON REQUEST.
- CLOG RESISTANT, 100% FULL BORE DESIGN WITH NO FLOW RESTRICTIONS AND TURBULENCE, AND SELF-CLEANING.
- ENCLOSED BODY, PROTECTING THE SLEEVE FROM OUTSIDE CONDITIONS.
- SLEEVE IS THE ONLY PART EXPOSED TO THE LINE PROCESS, NO OTHER MECHANICAL PARTS REQUIRED.
- DOUBLE PINCH CLOSING MECHANISMS.
- SINGLE PINCH MECHANISM AVAILABLE UPON REQUEST.
- REDUCED PROCESS DOWNTIME AND MAINTENANCE COST WITH EASY AND QUICK REPLACEMENT.
- PNEUMATIC SINGLE AND DOUBLE ACTING ACTUATORS. ELECTRIC AND HYDRAULIC ACTUATORS AVAILABLE UPON REQUEST.
- MANUAL AND BEVEL GEAR OPERATION AVAILABLE UPON REQUEST.
- LONGE FACE TO FACE CONFIGURATION FOR BETTER PERFORMANCE ON MODULATING APPLICATIONS.
- OPERATION UNDER VACUUM CONDITIONS FEASIBLE.
- ANSI #150 / ANSI #300



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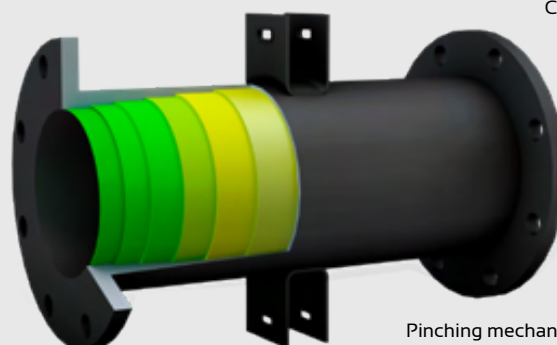
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- **SIZE:** 1"-24".
- **TYPE:** FULL PORT, CONE, CONE FUNNEL, HIGH PRESSURE.
- **MATERIALS OF CONSTRUCTION:** PGR, EPDM, SBRT, NEOPRENE, BUNA-N, VITON AND TEFLÓN LINER.

*OTHER SIZES AND MATERIALS AVAILABLE.

**SLEEVE WEAR SENSOR WITH
COMMUNICATION MODULE AVAILABLE.**

Reinforcement and Elastomer layers



Connection: Full Face
Flange Standards
DIN, ANSI, SABS y
Table D, E

Pinching mechanism tabs

Name	Temperature	Compatibility
Pure Gum Rubber PGR	-50 F to 180 F	Good abrasion resistance, tensile strength and resiliency. Good Compatibility with weak chemicals, organic acids and alcohols.
EPDM	-50 F to 300 F	Good abrasion resistance at higher temperatures. Good for diluted acids, steam, water and ketones. Not recommended for hydrocarbons.
Neoprene	-50 F to 230 F	Resistant to moderate chemicals, ozone, fats and some hydrocarbons.
SBR	40 F to 180 F	Good abrasion resistance, crack endurance and positive ageing characteristics.
Buna - N	-30 F to 230 F	Resistant to moderate chemicals, heronsene, grease, oils, fats and some hydrocarbons.

DN	A	B	C	D	E	Weight (lbs)
1"	7.25	4.9	9	6.1	5.5	11
1 ½"	8.75	7.4	10.8	7.4	5.5	22
2"	10	8.8	13.1	9	9.8	35
2 ½"	10.88	10.4	14.5	9.6	9.8	44
3"	11.75	11.8	17.7	11.4	9.8	55
4"	13.88	13.7	20.0	14.3	13.9	93
6"	17.75	16.9	27.9	20	24	176
8"	21.38	21.6	33.4	24.4	24	309
10"	26.50	24.1	36.6	26.3	24	386
12"	29	34.6	41.3	29.5	24	463
14"	28	34	*	*	*	**
16"	36	34	*	*	*	**
18"	36	44	*	*	*	**
20"	40	40	*	*	*	**
24"	48	57	*	*	*	**

* Dimensions to be determined based on type of actuation.

** : Weight of the valve calculated based on type of actuation.

TRINOVA FOLLOWS THE INDUSTRY STANDARD ISA 75.10.02 FOR INSTALLED FACE TO FACE DIMENSIONS.



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