



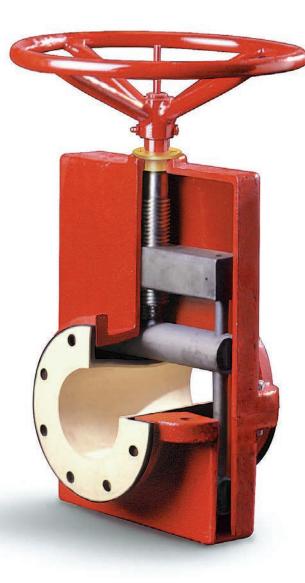






Manual Pinch Valves

- Same Face-to-Face As Gate, Plug, Or Ball Valves To 12"
- ► 100% Full Port
- Bi-Directional Droptight Shutoff
- No Packing To Maintain, Ever
- Sleeve Is Only Wetted Part: No Need For Alloy Bodies
- Self-Cleaning
- Excellent Throttling Characteristics





The Series 75's flexible sleeve isolates the valve's working parts.



This is accomplished by the use of two pinch bars closing on centerline.



This feature eliminates wear and turbulence, provides a smooth closing venturi, and self-cleans with each operation.



Fully closed, the Series 75 ensures droptight, bi-directional shutoff, intrinsically safe design with no packing to maintain.



FGD systems, scrubber systems, coal handling, fly ash, bottom ash.



Wastewater
Treatment Plants

Sludge handling, grit removal, raw sewage, lime, carbon slurry, digester gas.



► Mining

Tailings, flotation control, thickener underflow lines, numerous other slurry applications.



Corrosive and abrasive materials, powders, pellets, waste treatment.

Series 75

- No packing to maintain, ever
- ► Same face-to-face as gate, plug or ball valves to 12"
- ► Sleeve is the only wetted part, reduces maintenance costs
- Position indicator, heavy-duty sleeve
- ▶ 100% full port design
- ▶ Bi-directional bubbletight shutoff



Materials of Construction

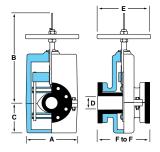
- Cast iron or aluminum body
- ➤ Sleeves available in Pure Gum Rubber, Neoprene, Hypalon®, Chlorobutyl, Buna-N, EPDM and Viton®
- ► Heavy-duty carbon steel mechanism, (optional stainless steel stem) position indicator, brass bushing, and grease fittings
- ► ANSI Class 125/150 flanges or metric flanges

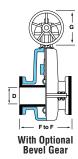
The Series 75 Manually Operated Pinch Valve is the number one selling pinch valve in the world today. The Series 75 full port design eliminates dead spots, crevices, seats and bearings where slurry can hang up and impair operation.

The heart of this unique valve is the durable, flexible rubber sleeve, which is reinforced with high-strength fabric. The principle of design is very simple; two mechanical pinch bars open and close the elastomer sleeve. The sleeve, which is the only part of the valve exposed to the line process, eliminates maintenance and the need for expensive, exotic body materials. Valve operation will not freeze and operating torques remain constant, even if the valve has remained in the open or closed position for years.

The Series 75 has the same ANSI B16.10 face-to-face as gate, plug or ball valves up to 6 inches. In sizes 8-12 inches, the ANSI B 16.10 face-to-face is available with a reduced port (see Series 75S dimensions below).

The Series 75 has excellent control characteristics and can be used as a throttling manual control valve. By simply turning the handwheel, operators can fine-tune the valve position to maintain a constant rate of flow.





Dimensions Series 75

Difficultion Series 13										
Valve Size	Length	Width	Height		Handwheel Diameter		Working Pressure	Valve Weight		
D*	F-to-F	Α	В	C	E	G**	(psi)***	(lbs)		
1 x 1/2"	5-1/2"	6-1/4"	10-5/8"	3"	6"	_	150	20		
1 x 3/4"	5-1/2"	6-1/4"	10-5/8"	3"	6"	_	150	20		
1"	5-1/2"	6-1/4"	10-5/8"	3"	6"	_	150	20		
1-1/2"	6-1/2"	9"	11-1/2"	3-5/8"	6"	_	150	34		
2"	7"	7-3/4"	14-7/8"	4-1/2"	12"	_	150	50		
2-1/2"	7-1/2"	9-3/4"	16-9/16"	4-3/4"	12"	-	150	62		
3"	8"	9-1/2"	16-9/16"	5"	12"	_	150	80		
4"	9"	10-3/4"	17-3/8"	5-1/2"	12"	18"	150	85		
5"	10"	15"	24-1/4"	7-3/4"	24"	18"	150	170		
6"	10-1/2"	15-1/2"	24-1/4"	7-7/8"	24"	24"	150	186		
8"	16"	19-3/4"	34"	9-3/8"	24"	24"	125	400		
10"	20"	24-1/2"	36-7/8"	10"	24"	24"	100	500		
12"	24"	35"	40"	11-1/2"	24"	24"	100	650		
14"	28"	37"	41-1/2"	14-1/2"	24"	24"	75	1,030		
16"	32"	40-1/2"	53-1/2"	15-1/2"	24"	24"	50	1,250		
18"	36"	51"	54-1/2"	16-1/2"	24"	24"	50	1,400		
20"	40"	40"	59"	17"	36"	30"	50	1,610		
24"	48"									
30"	60"	Contact								
36"	72"	Contact Factory								
42"	84"		i actory							
48"	96"									

Larger sizes available, consult factory.

** With optional bevel gear.

Dimensions Series 75S

Flange Size	Port Size D	Length F-to-F	Valve Weight Ibs.	
8"	6"	11-1/2"	328	
10"	8"	13"	442	
12"	10"	14"	687	

^{***} Higher working pressures available—see Series 9000, page 6.

Series 70

- Lightweight open frame construction
- ► Valve position instantly visible
- Custom fabricated design can accommodate special face-to-face dimensions



Materials of Construction

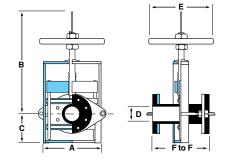
- ► Fabricated steel frame
- ➤ Sleeves available in Pure Gum Rubber, Neoprene, Hypalon®, Chlorobutyl, Buna-N, EPDM and Viton®
- ► ANSI Class 125/150 flanges or metric flanges

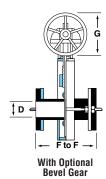
Our Series 70 Manual Pinch Valve is the counterpart to the unique Series 75 and has the same design features and advantages, but the heavy cast iron housing is eliminated and a strong fabricated steel body is in its place. The Series 70 is less costly, lighter, more versatile, and can be used when the location of the valve is not exposed to attack from corrosives or other volatile material.

The Series 70 is available in the same sizes and dimensions as the Series 75. Special face-to-face dimensions are available.

The standard body material is fabricated carbon steel. Sleeve materials include: Pure Gum Rubber, Neoprene, Buna-N, Butyl, Hypalon*, EPDM and Viton*.

Operation of the Series 70 is the same as the Series 75, utilizing double pinch bars to compress the flexible rubber sleeve from above and below, closing simultaneously on centerline when the handwheel is turned.





Dimensions Series 70

Valve Size Length		Width	Height		Handwheel Diameter		Working Pressure	Valve Weight
D*	F-to-F	Α	В	C	E	G**	(psi)	(lbs)
1" 1-1/2" 2" 2-1/2" 3"	5-1/2" 6-1/2" 7" 7-1/2" 8"	5-7/8" 9" 10-1/2" 9-1/2" 9-1/2"	10-1/2" 12" 15-3/4" 16-1/4" 16-1/4"	2-7/8" 3-5/8" 5-3/8" 4-3/4" 5"	6" 6" 8" 12" 12"	- - - -	150 150 150 150 150	15 20 25 36 40
4" 5" 6" 8" 10"	9" 10" 10-1/2" 16" 20"	10-3/4" 15-3/8" 18-1/4" 23-1/4" 31-1/4"	17-1/2" 24-1/2" 24-1/4" 34" 37"	5-1/2" 7-3/4" 8-3/8" 9-3/4" 10"	12" 24" 24" 24" 24"	18" 18" 24" 24" 24"	150 150 150 150 125 100	50 100 100 180 200
12" 14" 16" 18" 20"	24" 28" 32" 36" 40"	35" 37" 36-3/8" 44" 49-1/4"	38" 36" 40" 43" 45"	12" 14-3/8" 15-1/2" 20-1/2" 21"	24" 24" 24" 24" 24"	24" 24" 24" 24" 30"	100 75 50 50 50	260 473 560 690 770
24" 30" 36" 42" 48"	48" 60" 72" 84" 96"	51" 64" 77" 90" 101"	51-1/2" 54" 65" 76" 86"	25" 29" 35" 41" 46"	24" 24" 24" 24" 24"		Contact Factory	1,150 1,770 2,250 3,175 3,990

Larger sizes available.

^{**} With optional bevel gear.

Series 75B

- Designed for buried service
- Sealed body and yoke with no packing to maintain
- ► Sleeve is the only wetted part, reduces maintenance
- Above ground position indicator available for instant position identification



Materials of Construction

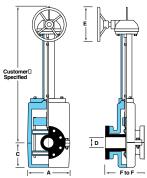
- Cast iron body, carbon steel yoke
- Sleeves available in Pure Gum Rubber, Neoprene, Hypalon*, Chlorobutyl, Buna-N, EPDM and Viton*
- ► ANSI Class 125/150 flanges or metric flanges

The Series 75B manually operated Pinch Valve is a reliable, maintenance-free, cost-effective valve designed for tough slurries and abrasive and corrosive chemical applications below ground. This intrinsically safe pinch valve, which was developed specifically for underground service, is sealed with an epoxy coating and can be supplied with an above ground position indicator for instant identification if the valve is open, closed, or is in the throttled position. There are no seats to grind, no stuffing boxes to repack, and no packing glands to adjust with the Series 75B. The pinching action is on centerline so the valve closes on a smooth venturi and is self-cleaning.

The heart of this unique valve is the durable, flexible rubber sleeve, which is reinforced with high strength fabric. The sleeve, which is the only part of the valve exposed to the process, eliminates maintenance and the need for expensive, exotic body materials. Additionally, valve operation will not freeze and operating torques remain constant.

The Series 75B has the same ANSI B16.10 face-to-face as gate, plug or ball valves up to 6 inches. In sizes 8-12 inches, the ANSI B16.10 face-to-face is available with a reduced port (see Series 75S dimensions on page 3).

When ordering a Series 75B, please specify which of the following operating options your application requires: AWWA nut, handwheel on top with no bevel gear, bevel gear operator, or bevel gear operator with dial gear (G.P.I.) position indicator. The Series 75B on the left is shown with a bevel gear operator and a 90° handwheel.



Dimensions Series 75B

Valve Size D*	Length F-to-F	Width A	Height C	Handwheel Diameter E G**		Working Pressure (psi)	Valve Weight (lbs)
1"	5-1/2"	5-7/8"	2-7/8"	6"	-	150	20
1-1/2"	6-1/2"	9"	3-5/8"	6"	_	150	40
2"	7"	10-1/2"	5-3/8"	8"	_	150	70
2-1/2"	7-1/2"	9-1/2"	4-3/4"	12"	_	150	80
3"	8"	9-1/2"	5"	12"	_	150	90
4"	9"	10-3/4"	5-1/2"	12"	18"	150	100
5"	10"	15-3/8"	7-3/4"	24"	18"	150	200
6"	10-1/2"	18-1/4"	8-3/8"	24"	18"	150	220
8"	16"	23-1/4"	9-3/4"	24"	18"	125	420
10"	20"	31-1/4"	10"	24"	18"	100	510
12"	24"	35"	12"	24"	18"	100	650
14"	28"	37"	14-3/8"	24"	18"	75	1,030
16"	32"	36-3/8"	15-1/2"	24"	18"	50	1,250
18"	36"	44"	20-1/2"	24"	18"	50	1,400
20"	40"	49-1/4"	21"	24"	18"	50	1,610
24"	48"	51"	25"	24"	18"	50	2,028

^{*} Larger sizes available.

^{**} With optional bevel gear.

Series 9000 High Pressure

- ► High-pressure pinch valve design
- ► Heavy-duty polyester or Kevlar® reinforced high-pressure sleeve is the only wetted part
- Sealed body design
- Full pressure rated body



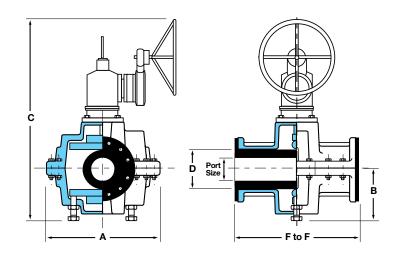
Materials of Construction

- Ductile, steel, stainless steel bodies
- ➤ Sleeves are available in Pure Gum Rubber, Neoprene, Hypalon®, Chlorobutyl, Buna-N, EPDM and Viton®
- ▶ Bevel Gear 4:1, 8:1, 16:1 or 22:1 actuator
- ▶ Drilled and tapped to mate with ANSI B 16.5 Class 300 flanges; Optional Class 150 flanges and metric flanges available

The Series 9000 high-pressure manual pinch valve is designed with ANSI Class 300 flange drilling. The heavy-duty elastomer sleeves are reinforced with high strength nylon, polyester fabrics, or Kevlar® material. Several heavy-duty sleeve designs are available. The elastomer sleeve will close even on solids, and the flexing action of the sleeve eliminates the possibility of scaling. Two heavy-duty pinch bars close the sleeve. All valve working parts are isolated from the process by the sleeve. Combining these features with a sealed body design and no packing to maintain results in a simple, rugged, no-hang-up, maintenance-free valve.

Several bevel gear actuators are available for on/off manual operation.

In order to accommodate the higher working pressure design, the valve is normally sized one size larger to allow for the thick double wall high pressure sleeve. As shown on the chart below, a 6" port size valve requires a 8" flange body size. Series 9000 designs are also available in ANSI Class 150 designs, and are available with pneumatic, electric or hydraulic actuators.



Dimensions Series 9000 High Pressure Pinch Valve

Flange Size Port		Length	Width	Hei	ght	Working Pressure	Weight
D	Size*	F-to-F	Α	В	C	psi **	lb
1" x	1/2"	7-3/4"	12"	6"	16"	300	150
2" x	1"	9-1/2"	16"	8"	22"	300	250
4" x	3"	14"	20"	11"	28"	300	600
6" x	4"	20"	23"	13"	33"	300	900
8" x	0	26"	25"	15"	39"	300	1,000
10" x		32-1/2"	33"	20"	51"	300	1,200
12" x		38-1/2"	40"	25"	62"	300	1,600

Other port sizes available.

^{**} Higher working pressure designs available, consult factory.

Options

Applications

Bevel Gears

Are for high pressure service or large diameter valves. Suggested on all valves over 6" diameter and above 75 psi. Standard WBG-16 1600 ft.-lb. 4:1 gear ratio with wheel axis parallel to pipe axis.



Chainwheels

Consist of 3-spoke sprocket rim, arm, and attachment set. Sizes range from 4" to 30" diameter sprocket rim. Guide and rim are ductile iron.



Stem Extensions/AWWA Nuts/Floor Stands

Custom stem extenstions, AWWA Nuts, and floor stands are available.





Standard Sleeve

Sleeve Styles

Different sleeve styles are offered for Red Valve's Manual Pinch Valve product line - Standard, Double Wall, and Cone Sleeves.





Power Industry

Red Valve Series 75 Pinch Valves are ideal for ash handling and wet lime scrubber systems for coal fired utilities. Lime breaks up from the flexing action of the pinch



valve sleeve, eliminating the need for unscheduled maintenance.

Chemical Plants

Chemical Plants use Series 75 Pinch Valves for pump isolation. The sleeve is the only wetted part and eliminates the need for costly alloy bodies. Fugitive emissions are eliminated, which is a



problem for other style valves that have packing.

Mining Industry

Tailings systems use Series 70 and 75 Pinch Valves in sizes 1/2" to 48". The full port design eliminates sleeve wear. The proven design of the Red Valve Pinch Valve was first applied in mining operations.



Wastewater Treatment

Wastewater Treatment Plants use Series 75 Pinch Valves on sludge, grit, ferric chloride, digester gas, and raw sewage. The full port, no hang-up design is maintenancefree. Series 75 Pinch Valves will not freeze



or require the constant lubrication and maintenance of plug valves.

A Complete Line Of Quality Products ... Built To Beat Slurries



Red Valve's 5200 Control Valve offers maximum durability with precise

control.

The revolutionary Tideflex® Check Valve stands alone as the product of choice for backflow prevention, replacing high-maintenance flap gates.

Providing a full 360° pressure reading, Red Valve Pressure Sensors are the industry standard for protecting instrumentation and ensuring accurate,

dependable pressure measurement.





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First introduced by Red Valve, the Type A Miniflex and Megaflex Pinch Valves are the most economical

large and small diameter automatic valves on the market today.



Red Valve's 5200E
Electrically Actuated
Control Valve provides
economical, reliable,
and precise
control.





Redflex® Expansion Joints, Reducers, Rubber Pipe, Vibration Pipe, and Rubber Fittings are the industry standard.

