



Medical & Bioprocessing Solutions

Pneumatic Pinch Valves

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Breakthrough Engineering for a Better World

Norgren is part of global engineering organisation IMI plc. IMI is at the forefront of delivering the solutions we need in a changing world and is focused on **creating tremendous value by solving key industry problems** in attractive markets and employing the best.

Norgren has a proud history of creating innovative engineering solutions in precise motion control and fluid technology, and we collaborate with our customers across more than 50 countries in critical areas such as Factory Automation, Material Handling, Rail, Energy, Process Control, Life Science and Commercial Vehicles.

From improving speed, productivity, reliability and efficiency of equipment, to generating significant energy and cost savings, or lowering total cost of ownership across many industries, Norgren's high-quality solutions are designed to help customers pursue progress, achieve new goals and overcome problems.

With market-leading industry expertise, we offer the capability, resources, engineering intelligence and global support infrastructure to tackle the largest project demands.

Our world-class portfolio of fluid and motion control products include Norgren, Bimba, Buschjost, FAS, Herion, Kloehn and Maxseal. Supplied either individually or combined into powerful customised solutions to meet customer needs.

Breakthrough engineering you can count on.

Breakthrough Engineering for a Better World



Pneumatic Pinch Valves

Compact Design Valve for Single-Use Bioprocessing

Pneumatic Pinch Valves are designed for biopharmaceutical processing, food and beverage, and industrial applications where sterility and wash down procedures are needed. These robust units offer reliability and performance—especially when working with harder or larger diameter tubing that requires stronger pinch forces.

Designed for disposable tubing, each model contains an easy snap-in tube slot for quick loading and unloading procedures. Panel or base mountable units can also be configured with optional state sensors, controllers, or setup in normally-open or normally-closed default states. Optional safety caps on certain models are also available to address operational hazards.



Experience the Difference

- » Compact design that allows the customer to select preferred tubing within recommended guidelines
- » Base or Panel mount ready with snap-in tubing slot
- » Optional valve state detection sensors
- » Optional 3- or 4-way controllers for pressure venting between states
- » Panel splash seals for wash down procedures
- » Manual overrides on model 932 and 933
- » Offered in Black Anodized Aluminum or 316L Stainless Steel
- » Warranted for 18 months

Each product is also calibrated for pinch force, pinch gap and stroke to ensure optimal performance.



Simple And Affordable Series Pneumatic Pinch Valves

Simple and Affordable Series Pneumatic Pinch Valves										
The three tubing listed below are recommended for all valve models, normally closed and normally open, at their respective tubing range and min. wall thickness at 70°F										
Valve Model	Tubing O.D. Range (in./mm)	Min. Wall Thickness (in./mm)	No.	Tubing O.D. (in./mm)	Tubing I.D. (in./mm)	Material	Durometer (Shore A)	Manufacturer Max Pressure (PSI/ BAR)	Max Tested Media Pressure (PSI/ BAR)	Valve Part Number (Recommend Supply Pressure, PSI/ BAR)
ALL	DEPENDENT ON VALVE MODEL SEE CHART BELOW	SEE CHART BELOW	1	SEE CHART BELOW	SEE CHART BELOW	C-FLEX	50 - 60	9 - 15 / .6 - 1.0	9 - 15 / .6 - 1.0	SEE CHART BELOW DEPENDENT ON TUBING O.D.
			2			PHARMED BPT	64	9 - 30 / .6 - 2.1	9 - 30 / .6 - 2.1	
			3			SILICONE	50 - 60	9 - 15 / .6 - 1.0	9 - 15 / .6 - 1.0	

Simple and Affordable Series Pneumatic Pinch Valves- Normally Closed Configuration										
Valve Model	Valve Model Accommodates Tubing Outer Diameter Range (in./mm)	Min. Tubing Wall Thickness Required (in./mm)**	Recommended Tubing and Media Pressures for Normally Closed Valves at 70°F for Different Tubing and Media Pressures, Complimentary Tubing Tests Available²							
			No.	Tubing O.D. (in./mm)	Tubing I.D. (in./mm)	Material	Durometer (Shore A)	Manufacturer Max Pressure (PSI/ BAR)¹	Max Tested Media Pressure (PSI/ BAR)¹	Valve Part Number (Recommend Supply Pressure, PSI/ BAR)
932	.125 - .177 / 3.2 - 4.5 (1/8 - .177)	.032 / .8 (1/32)	1	.125 3.2	.063 1.6	POLYURETHANE	70 - 85	105 / 7.2	50 / 3.4	932CN-SABP5-040-0188 932CS-SABP5-040-0188* (50 - 125 / 3.4 - 8.6)
			2			PVC	60 - 70	65 / 4.5	50 / 3.4	
			3			TYGON B-44-4X	65	60 / 4.1	50 / 3.4	
932	.188 - .250 / 4.8 - 6.4 (3/16 - 1/4)	.063 / 1.6 (1/16)	1	.250 6.4	.125 3.2	PHARMA 80	80	249 / 17.2	50 / 3.4	932CN-SABP5-060-0188 932CS-SABP5-060-0188* (50 - 125 / 3.4 - 8.6)
			2			POLYURETHANE	70 - 80	110 / 7.6	50 / 3.4	
			3			PVC	60 - 70	65 / 4.5	50 / 3.4	
932	.188 - .250 / 4.8 - 6.4 (3/16 - 1/4)	.063 / 1.6 (1/16)	3			TYGON B-44-4X	65	60 / 4.1	50 / 3.4	
933	.250 - .375 / 6.4 - 9.5 (1/4 - 3/8)	.063 / 1.6 (1/16)	1	.375 / 9.5	.125 / 3.2	SILICONE, BRAID REINFORCED	60 - 65	175 / 12.1	50 / 3.4	933CN-SABP5-040-0375 933CS-SABP5-040-0375* (50 - 125 / 3.4 - 8.6)
			2			PHARMA 65	65	15 / 1.0	15 / 1.0	
			3			PHARMA 80	80	249 / 17.2	30 / 2.1	
933	.250 - .375 / 6.4 - 9.5 (1/4 - 3/8)	.063 / 1.6 (1/16)	4	.375 9.5	.250 6.4	PVC	60 - 70	45 / 3.1	45 / 3.1	933CN-SABP5-160-0750 934CS-SABP5-160-0750* (60 - 125 / 4.1 - 8.6)
			5			TYGON B-44-4X	65	34 / 2.3	34 / 2.3	
			1			PHARMA 50	50	10 / 7	10 / 7	
934	.500 - .750 / 12.7 - 19.1 (1/2 - 3/4)	.063 / 1.6 (1/16)	2	.500 12.7	.375 9.5	POLYURETHANE	70 - 85	55	30 / 2. 1¹	934CN-SABP5-094-0750 934CS-SABP5-094-0750* (60 - 125 / 4.1 - 8.6)
			3			PVC	60 - 70	30 / 2. 1	30 / 2. 1	
			4			TYGON B-44-4X	65	25 / 1.7	25 / 1.7	
934	.500 - .750 / 12.7 - 19.1 (1/2 - 3/4)	.125 / 3.2 (1/8)	1	.500 12.7	.125 / 3.2 12.7 3	PHARMA 50	50	17 / 1.2	17 / 1.2	934CN-SABP5-160-0750 934CS-SABP5-160-0750* (60 - 125 / 4.1 - 8.6)
			2			SILICONE, BRAID REINFORCED	60 - 65	160 / 11.0	50 / 3.4	
			3			TYGON B-44-4X	65	60 / 4.1	30 / 2.1	
934	.500 - .750 / 12.7 - 19.1 (1/2 - 3/4)	.125 / 3.2 (1/8)	4	.750 / 19.1	.500 / 12.7	PHARMA 65	65	11 / .8	11 / .8	935CN-SABP5-160-0750 935CS-SABP5-160-0750* (60 - 125 / 4.1 - 8.6)
			1			PHARMA 50	50	9 / .6	9 / .6	
			2			TYGON B-44-4X	65	35 / 2.4	20 / 1.4 ¹	
935	.750 - 1.000 / 19.1 - 25.4 (3 / 4 - 1)	.125 / 3.2 (1/8)	3	1.000 25.4	.750 19.1	SILICONE, BRAID REINFORCED	60 - 65	100 / 6.9	40 / 2.8	935CN-SABP8-160-1000 935CS-SABP8-160-1000 (80 - 125 / 5.5 - 8.6) (High Force)
			4			PHARMA 65	65	7 / .5	7 / .5	
			1			PVC	60 - 70	30 / 2. 1	20 / 1.4 ¹	
935	.750 - 1.000 / 19.1 - 25.4 (3 / 4 - 1)	.125 / 3.2 (1/8)	2	1.000 25.4	.625 / 15.9	TYGON B-44-4X	65	35 / 2.4	20 / 1.4 ¹	936CS-SABP5-250-1500 936CS-SABP8-250-1500 (90 - 125 / 6.2 - 8.6) (High Force)
			3			SILICONE, BRAID REINFORCED	60 - 65	100 / 6.9	40 / 2.8	
			4			PHARMA 65	65	7 / .5	7 / .5	
936	1.125 - 1.625 / 28.6 - 41.3 (11/8 - 15/8)	.188 / 4.8 (3/16)	1	1.360 / 34.5	1.000 / 25.4	SILICONE, BRAID REINFORCED	60	65 / 4.5	65 / 4.5	936CS-SABP5-250-1500 936CS-SABP8-250-1500 (90 - 125 / 6.2 - 8.6) (High Force)
			2			NORPRENE, BRAID REINFORCED	60	75 / 5.2	75 / 5.2	
			3			SILICONE, BRAID REINFORCED	60	55 / 3.8	55 / 3.8	
936	1.125 - 1.625 / 28.6 - 41.3 (11/8 - 15/8)	.188 / 4.8 (3/16)	4	1.485 / 37.7	1.125 / 28.6	PVC	60	20 / 1.4	20 / 1.4	936CS-SABP5-250-1500 936CS-SABP8-250-1500 (90 - 125 / 6.2 - 8.6) (High Force)
			5			PVC, BRAID REINFORCED	66	85 / 5.9	30 / 2.1 ¹	
			1			SILICONE, BRAID REINFORCED	60	65 / 4.5	65 / 4.5	

* Valve model with position sensor.

¹ Maximum media pressure for reference only. User to verify performance. Shown manufacturer maximum rated pressure is for reference only and may change over time. Please consult tubing manufacturer for maximum rated working pressure and temperature.

** Tubing wall thickness can be calculated by the formula: wall thickness= (outer diameter - inner diameter)/2

² For any conditions not stated in the above Tubing Recommendation table please contact Aero Associates and we will gladly determine valve suitability with a complimentary tubing test.

Simple and Affordable Series Pneumatic Pinch Valves- Normally Open Configuration										
Valve Model	Valve Model Accommodates Tubing Outer Diameter Range (in./mm)	Min. Tubing Wall Thickness Required (in./mm)**	Recommended Tubing and Media Pressures for Normally Open Valves at 70° F for Different Tubing and Media Pressures, Complimentary Tubing Tests Available²							
			No.	Tubing O.D. (in./mm)	Tubing I.D. (in./mm)	Material	Durometer (Shore A)	Manufacturer Max Pressure (PSI/ BAR)¹	Max Tested Media Pressure (PSI/ BAR)¹	Valve Part Number (Recommend Supply Pressure, PSI/ BAR)
932	.125 - .177 / 3.2 - 4.5 (1/8 - .177)	.032 / .8 (1/32)	1	.125 3.2	.063 1.6	POLYURETHANE	70 - 85	105 / 7.2	50 / 3.4	932QN-SABP5-040-0188 932QS-SABP5-040-01B8* (80 - 125 / 3.4 - 8.6)
			2			PVC	60 - 70	65 / 4.5	50 / 3.4	
			3			TYGON B-44-4X	65	60 / 4.1	50 / 3.4	
932	.188 - .250 / 4.8 - 6.4 (3/16 - 1/4)	.063 / 1.6 (1/16)	1	.250 6.4	.125 3.2	PHARMA 80	80	249 / 17.2	50 / 3.4	932QN-SABP5-060-0188 932QS-SABP5-060-01B8* (80 - 125 / 3.4 - 8.6)
			2			POLYURETHANE	70 - 80	110 / 7.6	50 / 3.4	
			3			PVC	60 - 70	65 / 4.5	50 / 3.4	
932	.188 - .250 / 4.8 - 6.4 (3/16 - 1/4)	.063 / 1.6 (1/16)	4			TYGON B-44-4X	65	60 / 4.1	50 / 3.4	
933	.250- .375 / 6.4 - 9.5 (1/4 - 3/8)	.063 / 1.6 (1/16)	1	.375 / 9.5	.125 / 3.2	SILICONE, BRAID REINFORCED	60 - 65	175 / 12.1	50 / 3.4	933QN-SABP5-040-0375 (80 - 125 / 5.5 - 8.6)
			2			PHARMA 65	65	15 / 1.0	15 / 1.0	
			3			PHARMA 80	80	249 / 17.2	30 / 2.1	
933	.250- .375 / 6.4 - 9.5 (1/4 - 3/8)	.063 / 1.6 (1/16)	4	.375 / 9.5	.250 / 6.4	PVC	60 - 70	45 / 3.1	45 / 3.1	933QN-SABP5-060-0188 932QS-SABP5-060-01B8* (80 - 125 / 3.4 - 8.6)
			5			TYGON B-44-4X	65	34 / 2.3	34 / 2.3	
			1			PHARMA 50	50	10 / .7	10 / .7	
934	.500- .750 / 12.7 - 19.1 (1/2 - 3/4)	.063 / 1.6 (1/16)	2	.500 12.7	.375 9.5	POLYURETHANE	70 - 85	55 / 3.8	50 / 3.4	934QN-SABP5-094-0750 (80 - 125 / 5.5 - 8.6)
			3			PVC	60 - 70	30 / 2.1	30 / 2.1	
			4			TYGON B-44-4X	65	25 / 1.7	25 / 1.7	
934	.500- .750 / 12.7 - 19.1 (1/2 - 3/4)	.125 / 3.2 (1/8)	1	.500 12.7	.250 6.4	PHARMA 50	50	17 / 1.2	17 / 1.2	934QN-SABP5-160-0750 (80 - 125 / 5.5 - 8.6)
			2			SILICONE, BRAID REINFORCED	60 - 65	160 / 11.0	50 / 3.4	
			3			TYGON B-44-4X	65	60 / 4.1	50 / 3.4	
934	.500- .750 / 12.7 - 19.1 (1/2 - 3/4)	.125 / 3.2 (1/8)	4	.750 / 19.1	.500 / 12.7	PHARMA 65	65	11 / .8	11 / .8	934QN-SABP5-160-0750 (80 - 125 / 5.5 - 8.6)
			5			PHARMA 80	80	200 / 13.8	50 / 3.4	
			6			PVC	60 - 70	40 / 2.8	40 / 2.8	
935	.750 - 1.000 / 19.1 - 25.4 (3/4 - 1)	.125 / 3.2 (1/8)	1	0.938 / 23.8	.625 / 15.9	TYGON 8-44-4X	65	35 / 2.4	35 / 2.4	935QN-SABP5-160-1000 (80 - 125 / 5.5 - 8.6)
			2			SILICONE, BRAID REINFORCED	60 - 65	100 / 6.9	50 / 3.4	
			3			PHARMA 65	65	7 / .5	7 / .5	
935	.750 - 1.000 / 19.1 - 25.4 (3/4 - 1)	.125 / 3.2 (1/8)	4	1.000 / 25.4	.750 19.1	PVC	60 - 70	30 / 2.1	30 / 2.1	
936	1.125 - 1.625 / 28.6 - 41.3 (11/8 - 15/8)	.188 / 4.8 (3/16)	1	1.360 / 34.5	1.000 / 25.4	SILICONE, BRAID REINFORCED	60	65 / 4.5	65 / 4.5	936QS-SABP5-250-1500* (80 - 125 / 5.5 - 8.6)
			2			NORPRENE, BRAID REINFORCED	60	75 / 5.2	75 / 5.2	
			3			SILICONE, BRAID REINFORCED	60	55 / 3.8	55 / 3.8	
936	1.125 - 1.625 / 28.6 - 41.3 (11/8 - 15/8)	.188 / 4.8 (3/16)	4	1.485 / 37.7	1.125 / 28.6	PVC	60	20 / 1.4	20 / 1.4	936QS-SABP5-250-1500* (80 - 125 / 5.5 - 8.6)
			5			PVC, BRAID REINFORCED	66	85 / 5.9	50 / 3.4	
			1			SILICONE, BRAID REINFORCED	60	65 / 4.5	65 / 4.5	

* Valve model with position sensor.

¹ Maximum media pressure for reference only. User 10 verify performance. Shown manufacturer maximum rated pressure is for reference only and may change over time. Please consult tubing manufacturer maximum rated working pressure and temperature.

** Tubing wall thickness can be calculated by the formula: wall thickness = (outer diameter - inner diameter)/2

² For any conditions not seated in the above Tubing Recommendation table

Norgren operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Brazil, China, Czech Republic, Germany, India, Mexico, UK and the USA.

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