We make things MOVE

Pinch Valves

Bimba is part of IMI Precision Engineering

We Make Things Move®

A forward-thinking innovator, Bimba provides industry-leading pneumatic, hydraulic, electric, and vacuum motion solutions that are easy-to-use, reliable and ready for your engineering challenges.

Doing whatever it takes to help you get the job done is what the Bimba companies do best. With an extensive line of industry-leading air cylinders, rotary actuators, linear thrusters, rodless cylinders, NFPA, hydraulics, flow controls, position-sensing cylinders, valves, switches and air preparation equipment, the people of Bimba are ready to tackle your toughest applications.

Bimba is part of IMI Precision Engineering, a world leader in motion and fluid control technologies. Wherever precision, speed and engineering reliability are essential, we deliver exceptional solutions which improve the productivity and efficiency of customers' equipment.

Our range of high-performance products, such as actuators, valves, valve islands, pressure monitoring controls and air preparation products together with trusted products brands including IMI Norgren, IMI Buschjost, IMI FAS, IMI Herion and IMI Maxseal underpin our position as a leading global supplier.

Part of IMI plc, we have a sales and service network in 75 countries, as well as manufacturing capability in the USA, Germany, China, UK, Switzerland.

Contents

Pinch Valves

Bimba offers a wide variety of pinch valves for various types of applications ranging from bioprocessing, pharmaceutical, medical devices, process equipment to food and beverage industrial applications. Our pinch valves provide a low-maintenance and more cost-effective solution for controlling liquids, gases, slurries, powders, and much more. Due to the pinch valve's flexible tubing, individuals are switching from more traditional valves such as diaphragm valves, ball valves, butterfly valves, or needle valves to use pinch valves.

Unlike traditional valves, pinch valves feature a straight-through flow with very littler pressure drop over the valve with a full shut-off of media in the tube, making it the most practical solution for various fluid control applications.

All of our pinch valves are rigorously inspected, tested, and validated to guarantee that our products meet manufacturer specifications and requirements for reliability and performance. Our Acro product line of products are manufactured to the ISO 9001:2008 and ISO 13485:2003 standards giving you the quality you need for your operations.

600 Series Pneumatic Pinch Valves

Product Features

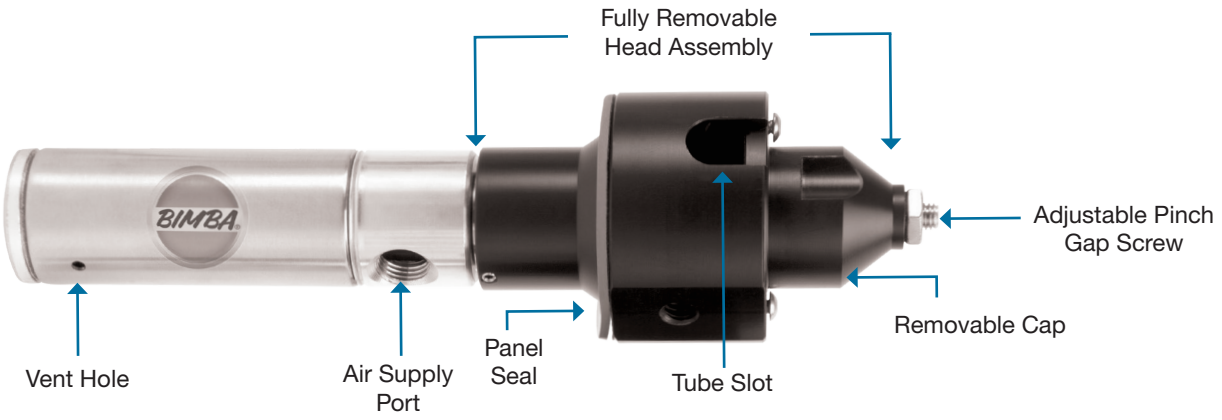
600 Series Pneumatic Pinch Valves

The 600 Series Pneumatic Pinch Valves are designed to deliver compactness and affordability without compromising performance. Choose from three models that accommodate a wide array of tube sizes, ranging from 0.187” to 0.375” OD, and pressures up to 70 Shore A and 60 psi*.

Features and Benefits

- Compact, lightweight design
- Easy cleaning eliminates media contamination
- Fast installation and replacement
- Adjustable pinch gap that supports multiple tube sizes
- Normally Open or Normally Closed default formats available

**Some polyurethane tube sizes can use up to 80 psi media pressure*



Product Selection Guide

Valve Model	Tube OD Range (in)	Recommended Tube and Media Pressures for Normally Closed Valves at 70° F for Different Tubing and Media Pressures, Complimentary Tube Testing Available						
		Tube OD (in)	Tube ID (in)	Material	Durometer (Shore A)	Manufacturer's Working Pressure (PSI)	Maximum Tested Pressure (PSI)	Valve Part Number
603	5/32 - 3/16	.150	.100	Polyurethane	~90	60	60	603CN-SDBP5-020-0375 603CS-SDBP5-020-0375
				Polyurethane	~90	60	60	
603	5/32 - 3/16	3/16	1/8	Silicone STHT-C	50	10	20	603CN-SDBN5-045-0375 603CS-SDBN5-045-0375
				Tygon 3350	50	9	18	
				C-Flex	62	25	50	
				Pharmed BPT	64	24	48	
				Tygon ND-100-065	65	55	90	
604	3/16 - 1/4	1/4	1/8	Silicone STHT-C	50	10	20	604CN-SDBN5-090-0375 604CS-SDBN5-090-0375
				Tygon 3350	50	9	18	
				C-Flex	62	25	50	
				Pharmed BPT	64	24	48	
				Tygon ND-100-065	65	55	90	
606	1/4 - 3/8	3/8	1/4	Silicone STHT-C	50	10	20	606CN-SDBN5-090-0375 606CS-SDBN5-090-0375
				Tygon 3350	50	9	18	
				C-Flex	62	25	50	
				Pharmed BPT	64	24	48	
				Tygon ND-100-065	65	55	90	

How to Specify

Specifications - 600CS Models

Mechanical
Media pressure: 30 PSI Maximum recommended
State: Normally Closed
Recommended Panel: 3/16" to 1/4" Thick
Tube Loading: Front Loading (Removable Cover)
Pinching Force: 24 lb Nominal
Maximum On-time: Indefinite
Maximum Cycle Rate: 1 Cycle Per 3 Seconds
Rec. Duty Cycle: 50% Duty
Rec. Ambient Temperature: 50°C Maximum

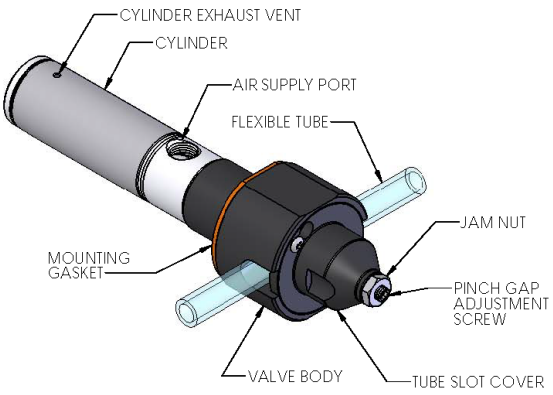
Pneumatic
Recommended Supply: 70 PSI Min. to 125 PSI Max.
Air Consumption: Approx 0.25 Cubic Inches/Cycle
Actuation: 3 Way Control Valve Required
State Feedback: Digital Hall Switch, NPN, 24" Leads Detects Open End of Stroke

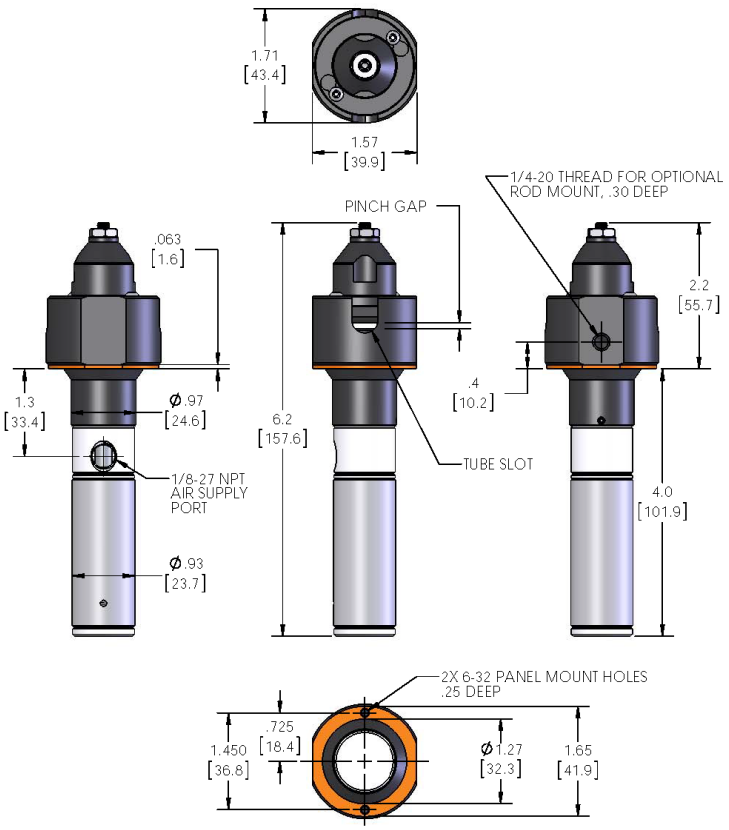
Material
Weight/Mass: 200g [7 oz]
Cylinder: Aluminum/Stainless Steel
Body: Black Acetal
Cover: Black Acetal
Pinch Ridge: Black Acetal
Pinch Head: Black Acetal
O-Rings: Buna-N
Hardware: Stainless Steel
Mounting Gasket: Silicone
Switch Track: Aluminum
Pinch Pad (Optional): Neoprene

Compliance
RoHS 2 (Directive 2011/65/EU) Compliant

*See Product Selection Guide for specific tubing materials

Dimensional Details: Inch [mm] - 600CS Models





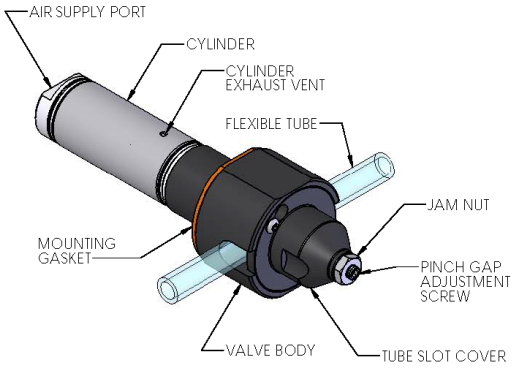
Specifications - 600QN Models

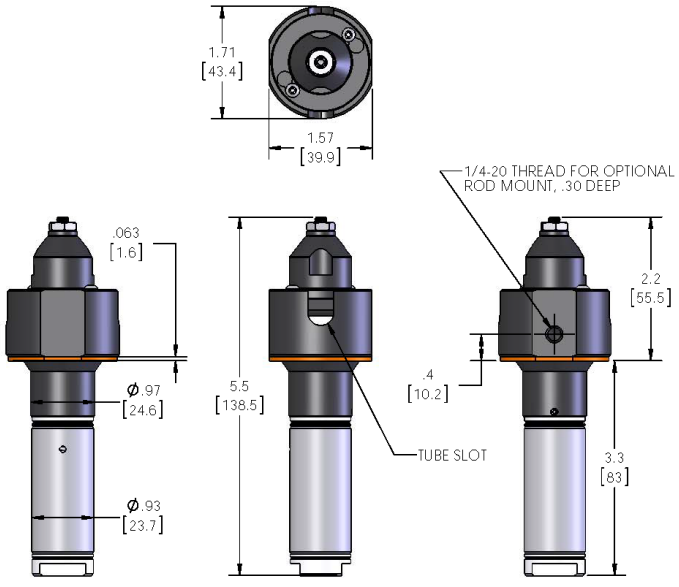
Mechanical
Media pressure: 30 PSI Maximum recommended
State: Normally Open
Recommended Panel: 3/16" to 1/4" Thick
Tube Loading: Front Loading (Removable Cover)
Pinching Force: Dependent on Supply Pressure Force = Supply Pressure * 0.6 - 6 LBF
Maximum On-time: Indefinite
Maximum Cycle Rate: 1 Cycle Per 3 Seconds
Rec. Duty Cycle: 50% Duty
Rec. Ambient Temperature: 50°C Maximum
Pneumatic
Recommended Supply: 50 PSI Min. to 125 PSI Max.
Air Consumption: Approx 0.25 Cubic Inches/Cycle
Actuation: 3 Way Control Valve Required
State Feedback: None

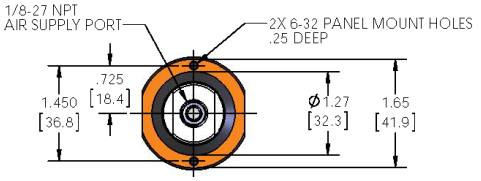
Material
Weight/Mass: 170g [6 oz]
Cylinder: Aluminum/Stainless Steel
Body: Black Acetal
Cover: Black Acetal
Pinch Ridge: Black Acetal
Pinch Head: Black Acetal
O-Rings: Buna-N
Hardware: Stainless Steel
Mounting Gasket: Silicone
Pinch Pad (Optional): Neoprene
Compliance
RoHS 2 (Directive 2011/65/EU) Compliant

**See Product Selection Guide for specific tubing materials*

Dimensional Details: Inch [mm] - 600QN Models







How to Specify

Specifications - 600CN Models

Mechanical
Media pressure: 30 PSI Maximum recommended
State: Normally Closed
Recommended Panel: 3/16" to 1/4" Thick
Tube Loading: Front Loading (Removable Cover)
Pinching Force: 24 lb Nominal
Maximum On-time: Indefinite
Maximum Cycle Rate: 1 Cycle Per 3 Seconds
Rec. Duty Cycle: 50% Duty
Rec. Ambient Temperature: 50°C Maximum

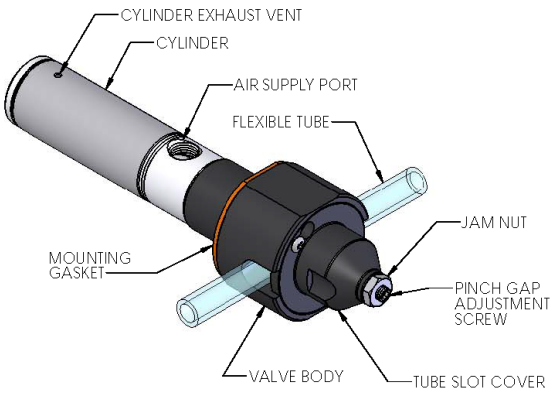
Pneumatic
Recommended Supply: 70 PSI Min. to 125 PSI Max.
Air Consumption: Approx 0.25 Cubic Inches/Cycle
Actuation: 3 Way Control Valve Required
State Feedback: None

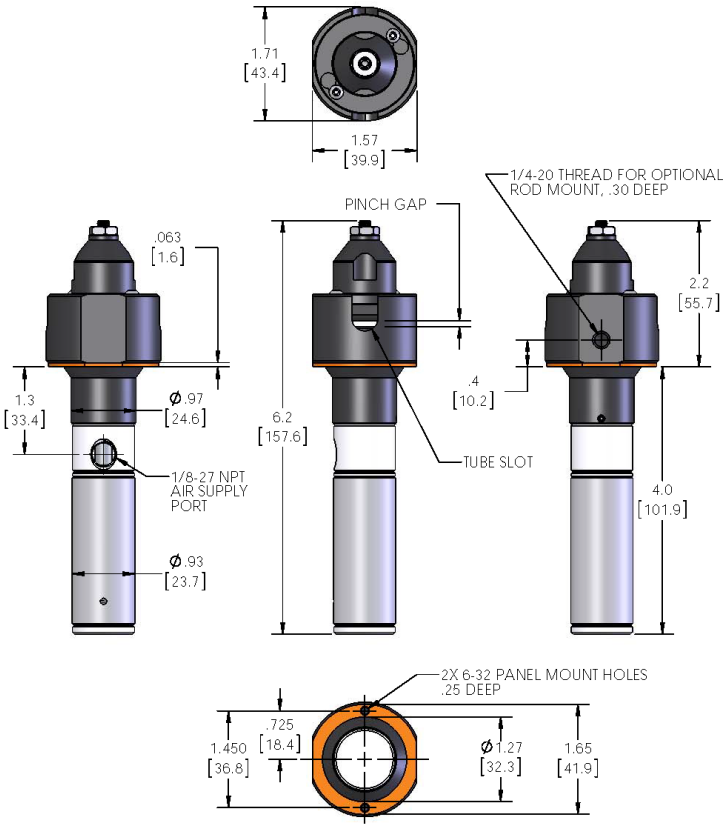
Material
Weight/Mass: 185g [6.5 oz]
Cylinder: Aluminum/Stainless Steel
Body: Black Acetal
Cover: Black Acetal
Pinch Ridge: Black Acetal
Pinch Head: Black Acetal
O-Rings: Buna-N
Hardware: Stainless Steel
Mounting Gasket: Silicone
Pinch Pad (Optional): Neoprene

Compliance
RoHS 2 (Directive 2011/65/EU) Compliant

**See Product Selection Guide for specific tubing materials*

Dimensional Details: Inch [mm] - 600CN Models





Specifications - 600QS Models

Mechanical
Media pressure: 30 PSI Maximum recommended
State: Normally Open
Recommended Panel: 3/16" to 1/4" Thick
Tube Loading: Front Loading (Removable Cover)
Pinching Force: Dependent of Supply Pressure Force = Supply Pressure * 0.6 - 6 LBF
Maximum On-time: Indefinite
Maximum Cycle Rate: 1 Cycle Per 3 Seconds
Rec. Duty Cycle: 50% Duty
Rec. Ambient Temperature: 50°C Maximum

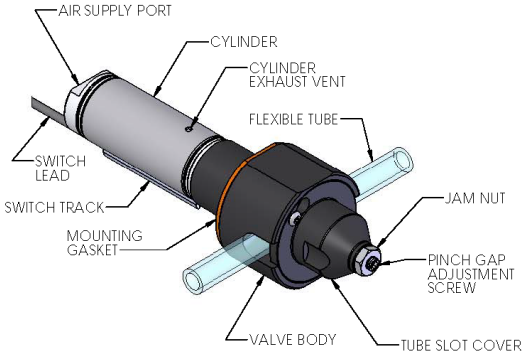
Pneumatic
Recommended Supply: 50 PSI Min. to 125 PSI Max.
Air Consumption: Approx 0.25 Cubic Inches/Cycle
Actuation: 3 Way Control Valve Required
State Feedback: Digital Hall Switch, NPN, 24" Leads Detects Open End of Stroke

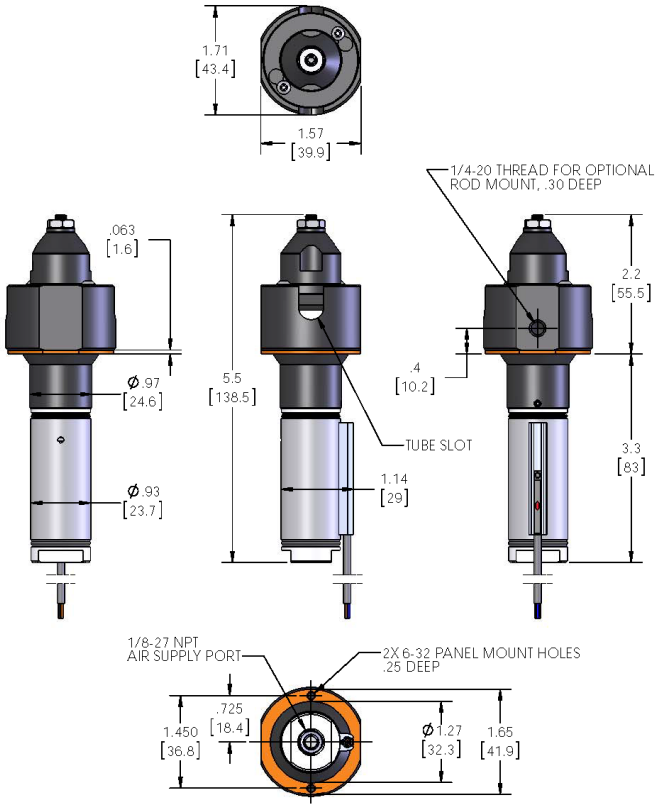
Material
Weight/Mass: 185g [6.5 oz]
Cylinder: Aluminum/Stainless Steel
Body: Black Acetal
Cover: Black Acetal
Pinch Ridge: Black Acetal
Pinch Head: Black Acetal
O-Rings: Buna-N
Hardware: Stainless Steel
Mounting Gasket: Silicone
Switch Track: Aluminum
Pinch Pad (Optional): Neoprene

Compliance
RoHS 2 (Directive 2011/65/EU) Compliant

*See Product Selection Guide for specific tubing materials

Dimensional Details: Inch [mm] - 600QS Models





How to Order

How to Order

The model numbers of the 600 Series Pneumatic Pinch Valves consist of an alphanumeric cluster designating tube slot size, normal state, sensor output, tube slot quantity, material and color, pinch pad, spring force, pinch gap setting, and cylinder stroke that together make up the complete part number to use in ordering. Use the ordering information below to build a valid part number.

An example of a pinch valve with a 0.187" slot size, normally closed, no sensor output, black delrin, pinch pad, 25 lb spring force, 20 unit pinch gap, and cylinder stroke is shown below in the part number configurator.

Model - Tube Slot Size	Sensor Output	Material - Color	Spring Force - lbs	Cylinder Stroke
603 — 0.187"	S - NPN	DB Delrin - Black	2-6 lbs. (for NO)	Units - XXX
604 — 0.250"	N - NONE		5-25 lbs. (for NC)	Thousands of an inch
606 — 0.375"				

603CN - SDBP5 - 020 - 0375

Normal State	Tube Slot qty	Pinch Pad	Pinch Gap Setting
C - Normally Closed	S - Single	P - Yes	Units - XXX
Q - Normally Open		N - No	Thousands of an inch

Stocked Configurations

Model 603
603CS-SDBN5-045-0375
603CN-SDBN5-045-0375
603QS-SDBN2-045-0375
603QN-SDBN2-045-0375
603CS-SDBP5-020-0375
603CN-SDBP5-020-0375
603QS-SDBP2-020-0375
603QN-SDBP2-020-0375

Model 604
604CS-SDBN5-090-0375
604CN-SDBN5-090-0375
604QS-SDBN2-090-0375
604QN-SDBN2-090-0375

Model 606
606CS-SDBN5-090-0375
606CN-SDBN5-090-0375
606QS-SDBN2-090-0375
606QN-SDBN2-090-0375

Stocked Configurations

Pneumatic Controller (Shelving)	Part Number	List Price	Pneumatic Controller - Standard (Non-Shelving)	Part Number	List Price
3-way 24 VDC Controller	K1003-24	$50.00	3-way 12 VDC Controller	K1003-12	$50.00
3-way 110/120 VAC Controller	K1003-110	$50.00	3-way 220 VAC Controller	K1003-230	$50.00
4-way 24 VDC Controller	K1004-24	$50.00	4-way 12 VDC Controller	K1004-12	$50.00
4-way 120 VAC Controller	K1004-110	$50.00	4-way 220 VAC Controller	K1004-230	$50.00

Controller Kit Parts -- Selected Controller, Push-In Fittings; 2 pcs. 10-31 to 1/4" Tube O.D., 4 pcs. 1/8 NPT to 1/4" Tube O.D., 2 pcs. 1/4" O.D. Tubing 18" Length, 1 pc. Brass Fitting 1/8 NPT

900 Series Pneumatic Pinch Valves

900 Series Pneumatic Pinch Valves

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.

Features and Benefits

- 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
- Calibrated for pinch force, pinch gap, and stroke to ensure optimal performance

How to Specify

Product Selection Guide

Simple and Affordable Series Pneumatic Pinch Valves

The three tubings listed below are recommended for all valve models, normally closed and normally open, at their respective tubing range and min. wall thickness at 70ºF

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
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 70ºF for Different Tubing and Media Pressures, Complimentary Tubing Tests Available††							
			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 [recommended 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	
			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	933CN-SABP5-040-0375 933CS-SABP5-040-0375* [50-125/3.4-8.6]
			2	.375 / 9.5	.188 / 4.8	Pharma 65	65	15 / 1.0	15 / 1.0	
			3	.375 9.5	.250 6.4	Pharma 80	80	249 / 17.2	30 / 2.1	
			4			PVC	60-70	45 / 3.1	45 / 3.1	
			5			Tygon B-44-4X	65	34 / 2.3	34 / 2.3	
934	.500 - .750 / 12.7 - 19.1 (1/2 - 3/4)	.063 / 1.6 (1/16)	1	.500 12.7	.375 9.5	Pharma 50	50	10 / .7	10 / .7	934CN-SABP5-094-0750 934CS-SABP5-094-0750* [60-125/4.1-8.6]
			2			Polyurethane	70-85	55	30 / 2.1‡	
			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	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‡	
			4	.750 / 19.1	.500 / 12.7	Pharma 65	65	11 / .8	11 / 8	
935	.750 - 1.000 / 19.1 - 25.4 (3/4 - 1)	.125 / 3.2 (1/8)	1	1.000 / 25.4	.750 /19.1	Pharma 50	50	9 / .6	9 / .6	935CN-SABP5-160-1000 935CS-SABP5-160-1000* [60-125/4.1-8.6]
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 B-44-4X	65	35/2.4	20/1.4	935CN-SABP8-160-1000 935CS-SABP8-160-1000* [80-125/5.5-8.6] (High Force)
			2	1.000/25.4	.625/15.9	Silicone Braid Reinforced	60-65	100/6.9	40/2.8	
			3	1.000 25.4	.750 19.1	Pharma 65	65	7/.5	7/.5	
			4			PVC	60-70	30/2.1	20/1.4‡	
936	1.125-1.625/28.6-41.3 (1 1/8 - 1 5/8)	.188/4.8 (3/16)	1	1.360/34.5	1.000/25.4	Silicone Braid Reinforced	60	65/4.5	30/2.1‡	936CS-SABP5-250-1500* [70-125/4.8-8.6]
			2	1.375/34.9	1.000/25.4	Norprene Braid Reinforced	60	75/5.2	30/2.1	
			3	1.485/37.7	1.125/28.6	Silicone Braid Reinforced	60	55/3.8	30/2.1‡	
			4	1.625/41.3	1.250/31.8	PVC	60	20/1.4	10/1.4	
936	1.125-1.625/28.6-41.3 (1 1/8-1 5/8)	.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-SABP8-250-1500* [90-125/6.2-8.6] (High Force)
			2	1.375/34.9	1.000/25.4	Norprene Braid Reinforced	60	75/5.2	75/5.2	
			3	1.485/37.7	1.125/28.6	Silicone Braid Reinforced	60	55/3.8	55/3.8	
			4	1.625/41.3	1.250/31.8	PVC	60	20/1.4	20/1.4	
			5			PVC Braid Reinforced	66	85/5.9	20/2.1‡	

**Valve model with position sensor*

† 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 may require conditioning for an instant seal. Conditioning consists of tubing being pinched by the valve for approximately 15 seconds without media pressure. Various factors can affect tubing seal rate that require conditioning.

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

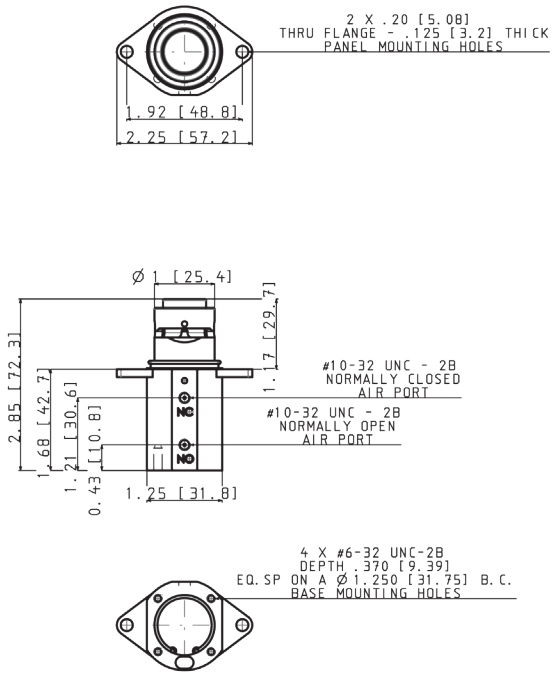
††For any conditions not stated in the above Tubing Recommendations table please contact Bimba and we will gladly determine valve suitability with a complimentary tubing test.

Product Selection Guide

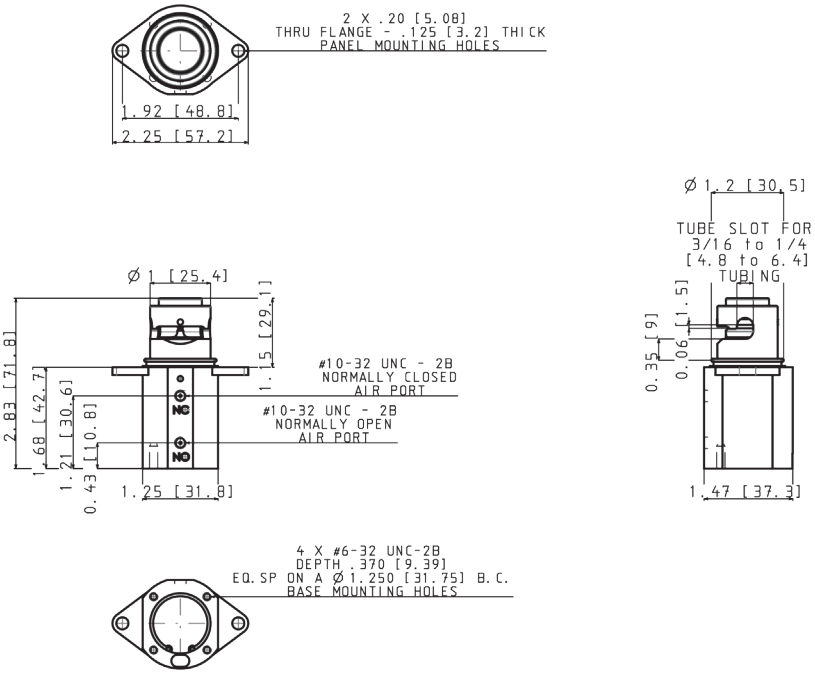
Simple And Affordable Series Pneumatic Pinch Valves - Normally Open Configuration										
Valve Model	Valve Model Accommodates Tubing Outer Diameter Range [in./mm]	Min. Tubing Wall Thickness Required** [in./mm]	Recommended Tubing and Media Pressures for Normally Closed Valves at 70ºF for Different Tubing and Media Pressures, Complimentary Tubing Tests Available††							
			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 [recommended 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-SABP5-040-0188* [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-SABP5-060-0188* [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	
			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 933QS-SABP5-040-0375* [80-125/5.5-8.6]
			2	.375 / 9.5	.188 / 4.8	Pharma 65	65	15 / 1.0	15 / 1.0	
			3	.375 9.5	.250 6.4	Pharma 80	80	249 / 17.2	30 / 2.1	
			4			PVC	60-70	45 / 3.1	45 / 3.1	
			5			Tygon B-44-4X	65	34 / 2.3	34 / 2.3	
934	.500 - .750 / 12.7 - 19.1 (1/2 - 3/4)	.063 / 1.6 (1/16)	1	.500 12.7	.375 9.5	Pharma 50	50	10 / .7	10 / .7	934QN-SABP5-094-0750 [80-125/5.5-8.6]
			2			Polyurethane	70-85	55 / 3.8	50 / 3.4	
			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	
			4	.750 / 19.1	.500 / 12.7	Pharma 65	65	11 / .8	11 / .8	
			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 B-44-4X	65	35/2.4	35/2.4	935QN-SABP5-160-1000 [80-125/5.5-8.6]
			2	1.000/25.4	.625/15.9	Silicone Braid Reinforced	60-65	100/6.9	50/3.4	
			3	1.000 25.4	.750 19.1	Pharma 65	65	7/.5	7/.5	
			4			PVC	60-70	30/2.1	30/2.1	
936	1.125-1.625/28.6-41.3 (1 1/8 - 1 5/8)	.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	1.375/34.9	1.000/25.4	Norprene Braid Reinforced	60	75/5.2	75/5.2	
			3	1.485/37.7	1.125/28.6	Silicone Braid Reinforced	60	55/3.8	55/3.8	
			4	1.625/41.3	1.250/31.8	PVC	60	20/1.4	20/1.4	
			5			PVC, BRAID REINFORCED	66	85 / 5.9	50 / 3.4	

**Valve model with position sensor*
† 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*
††For any conditions not stated in the above Tubing Recommendations table please contact Bimba and we will gladly determine valve suitability with a complimentary tubing test.

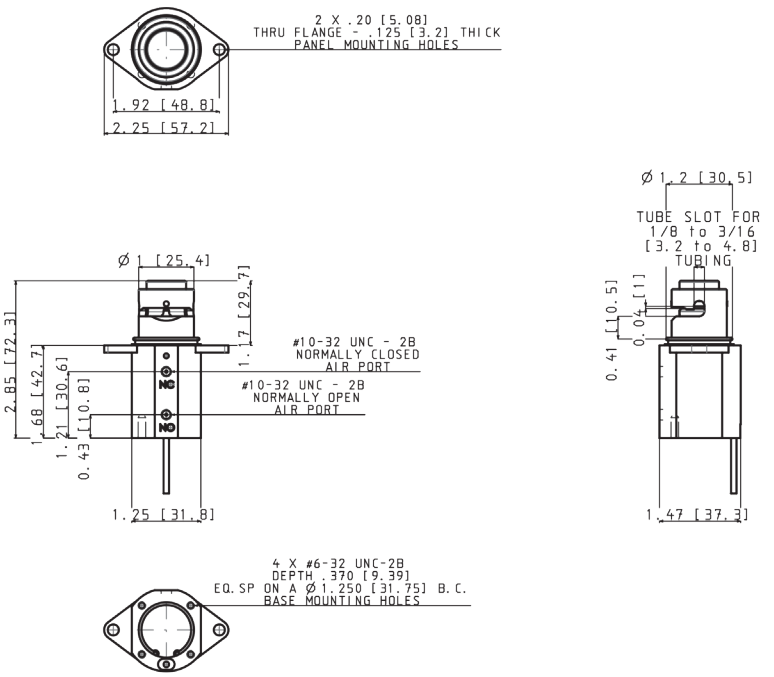
Dimensional Details: Inch [mm] - 932CN-SABP5-040-0188



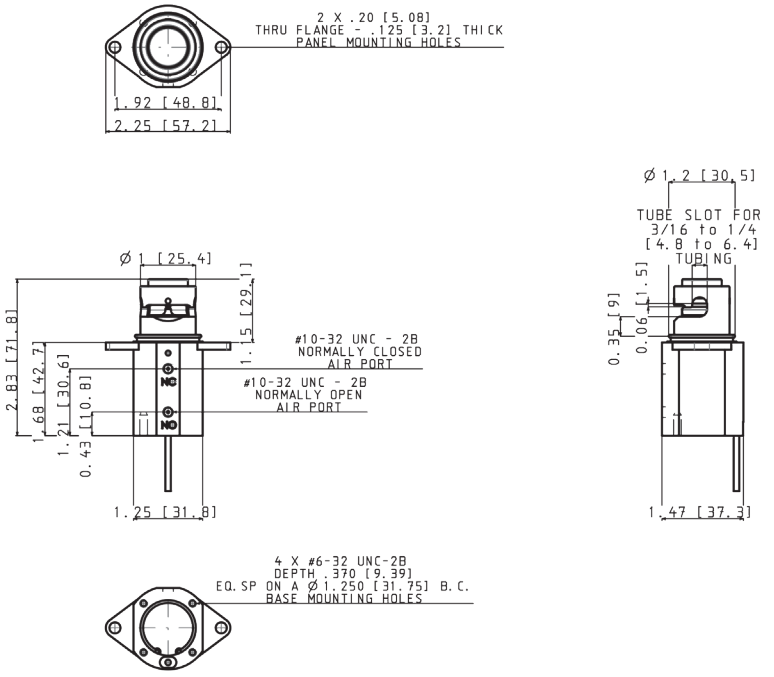
Dimensional Details: Inch [mm] - 932CN-SABP5-060-0188



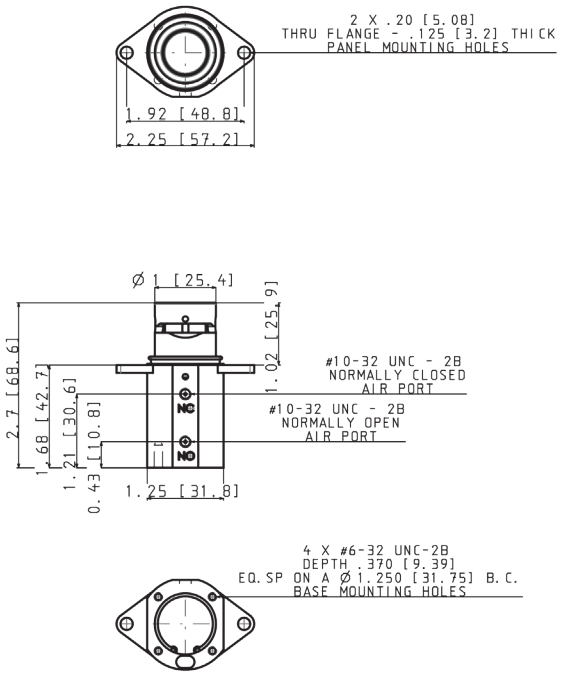
Dimensional Details: Inch [mm] - 932CS-SABP5-040-0188



Dimensional Details: Inch [mm] - 932CS-SABP5-060-0188



Dimensional Details: Inch [mm] - 932QN-SABP5-040-0188



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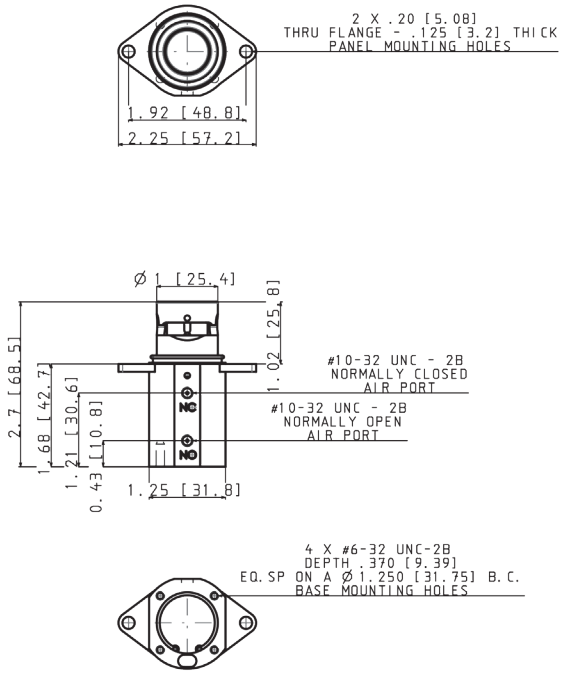

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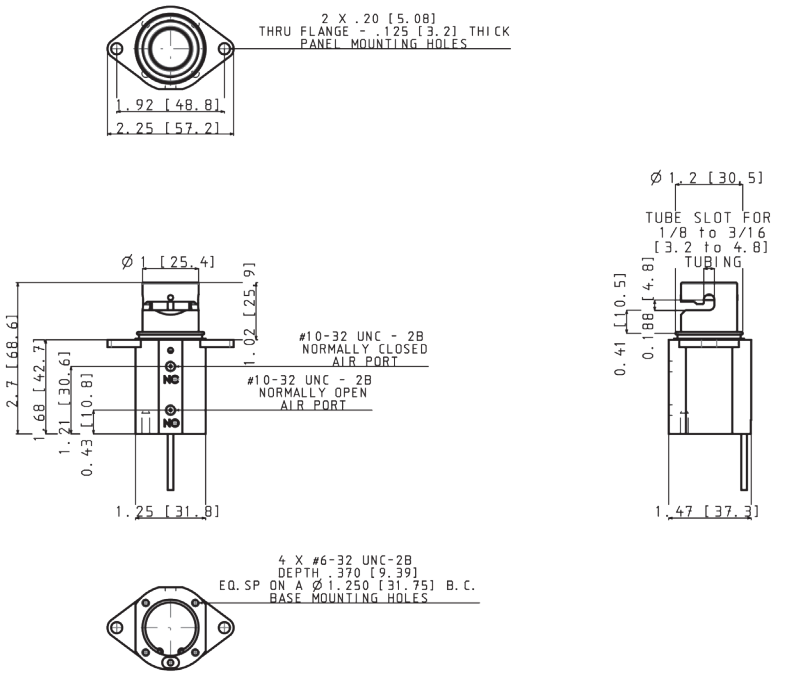

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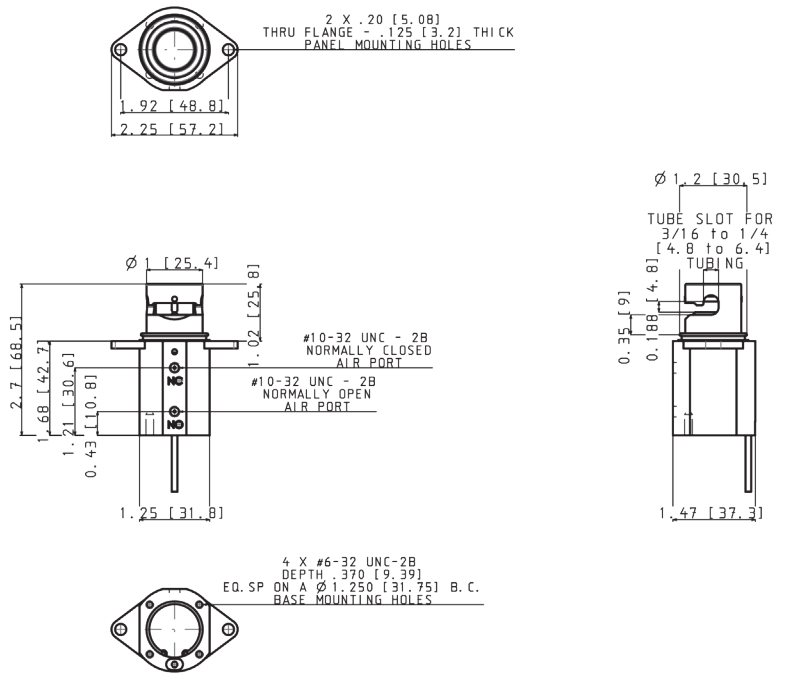

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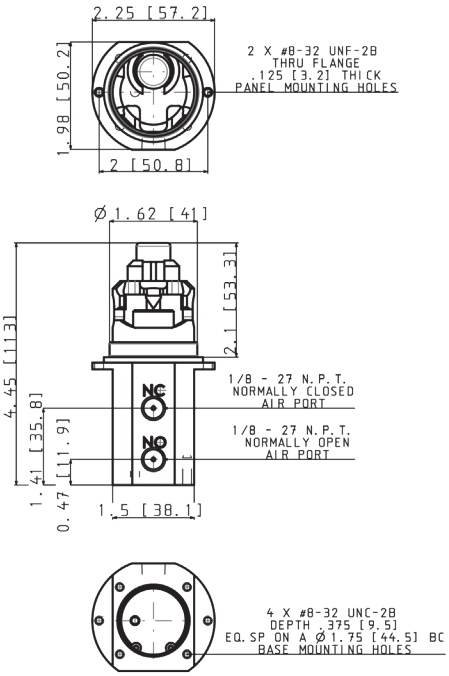

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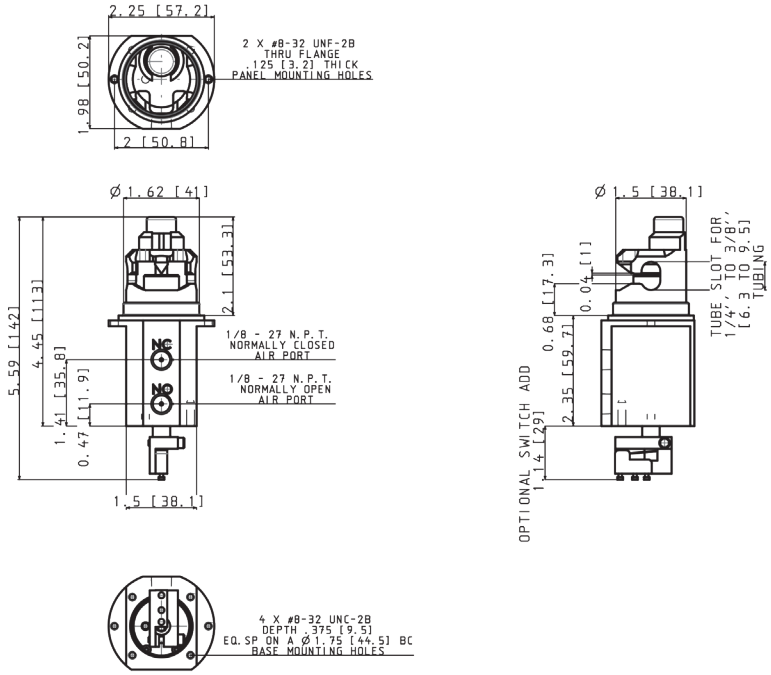
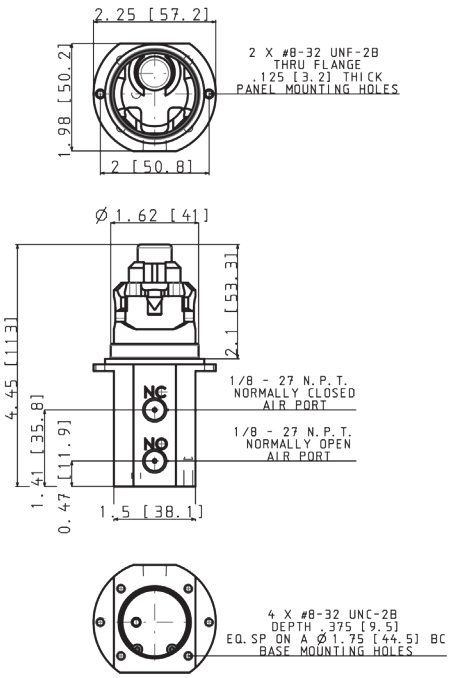


Dimensional Details: Inch [mm] - 933QN-SABP5-040-0375



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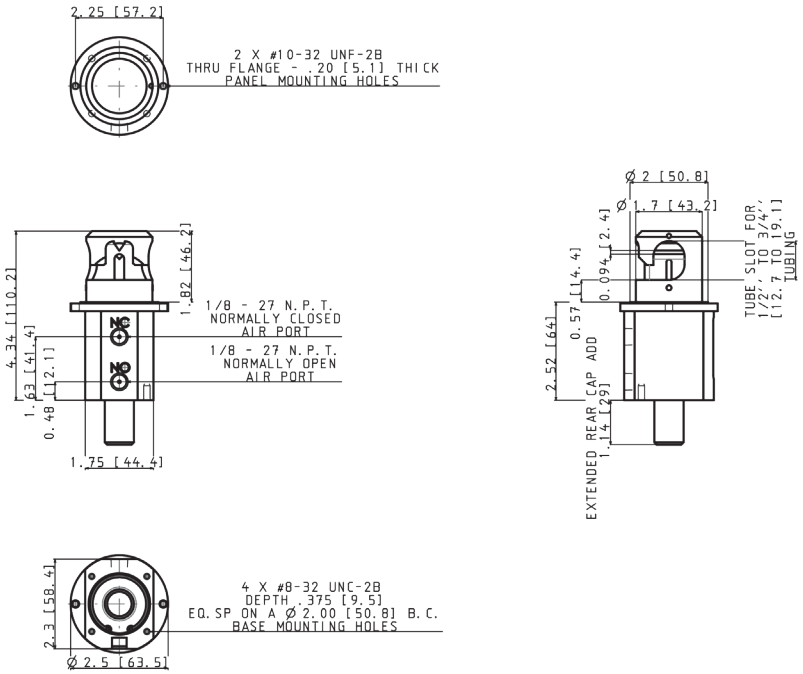
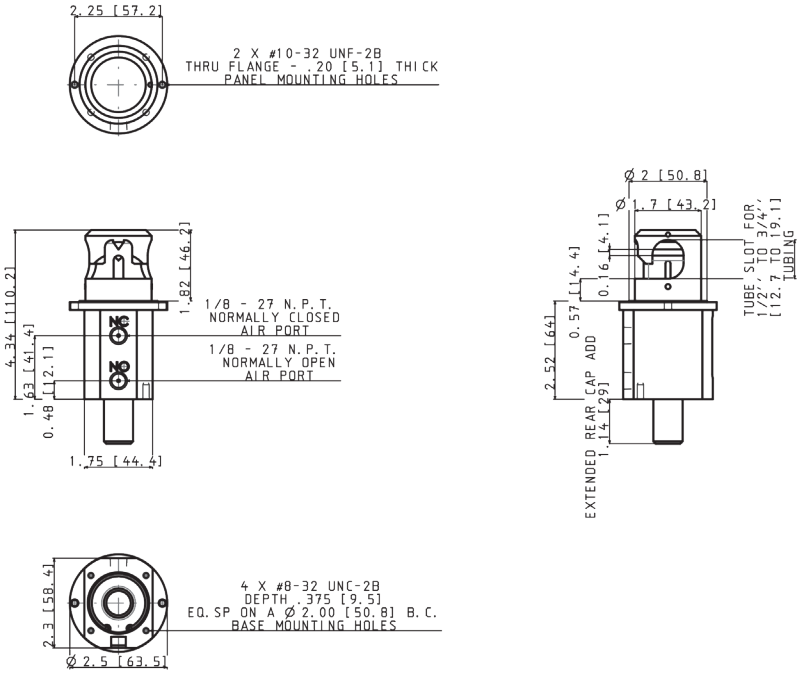
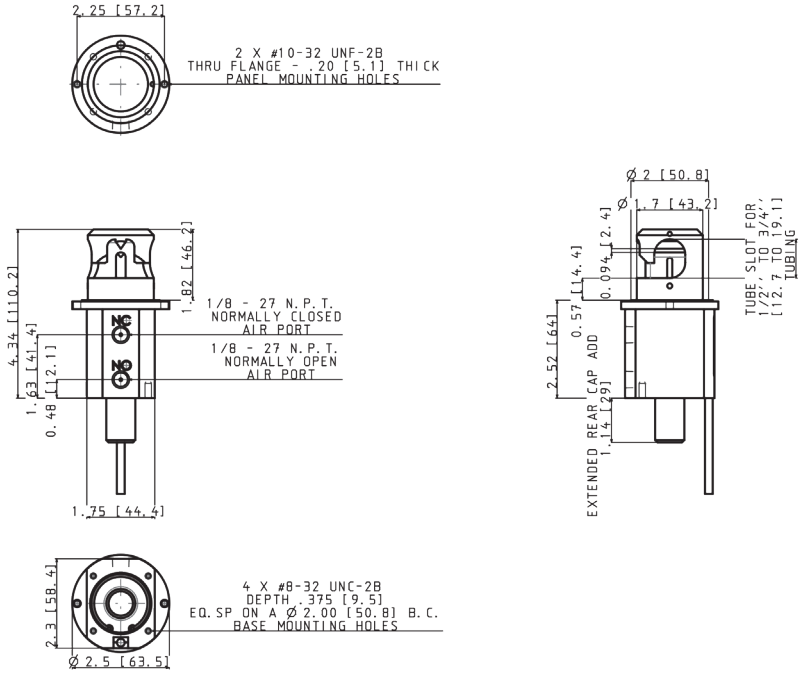


Dimensional Details: Inch [mm] - 934CN-SABP5-160-0750



Dimensional Details: Inch [mm] - 934CS-SABP5-094-0750



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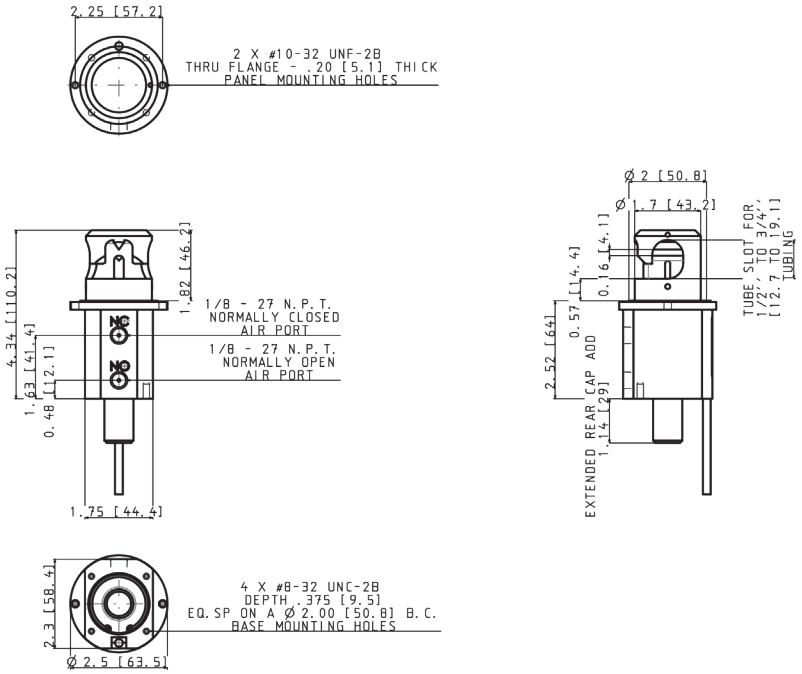

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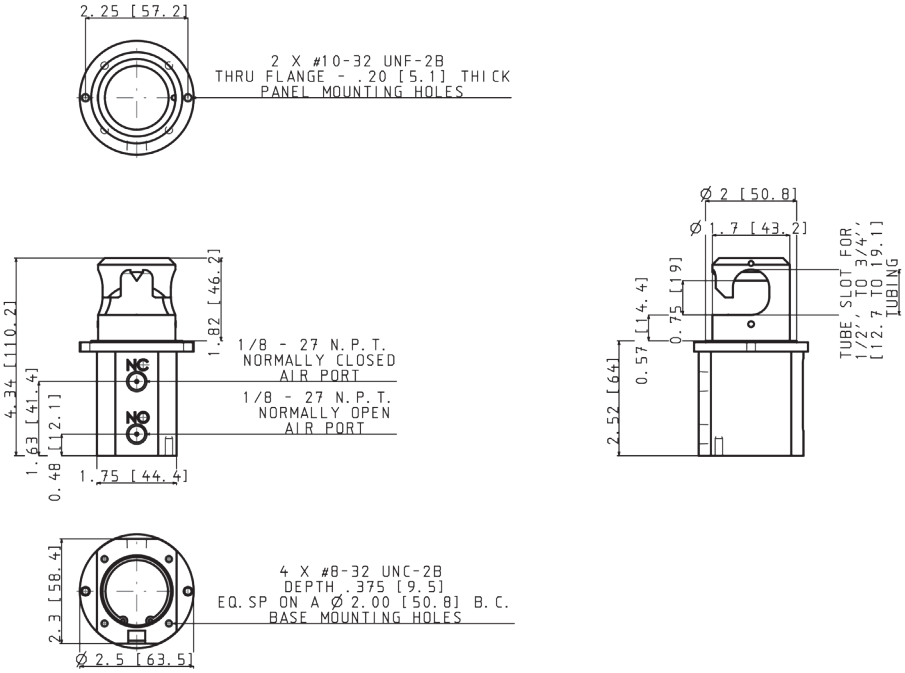

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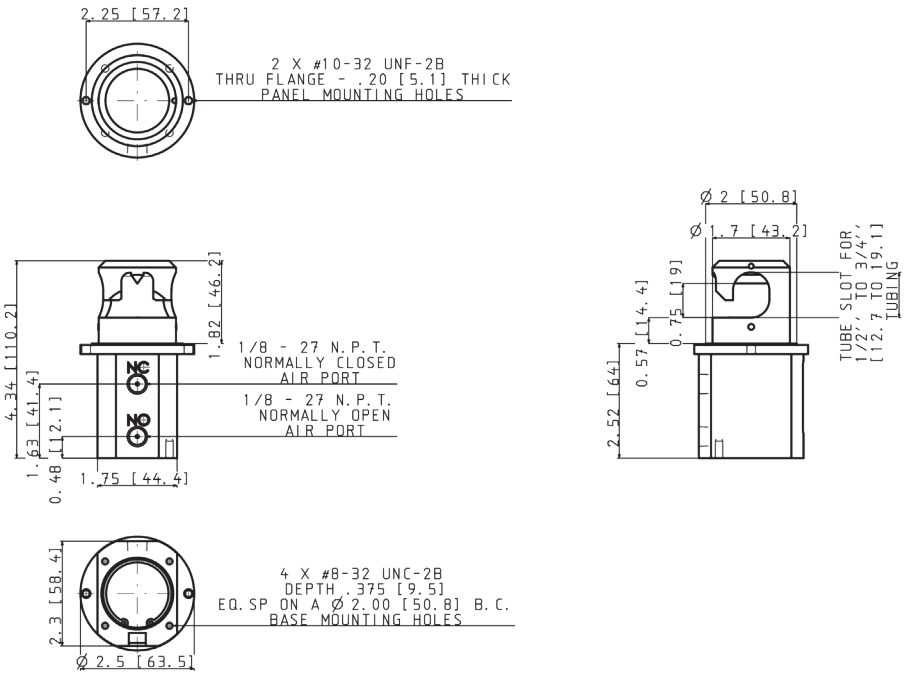

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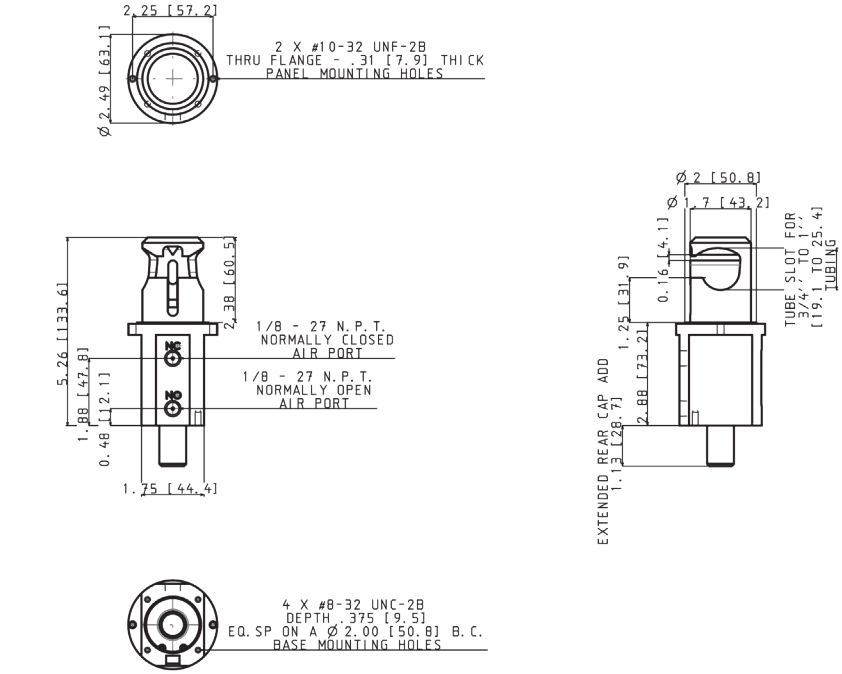

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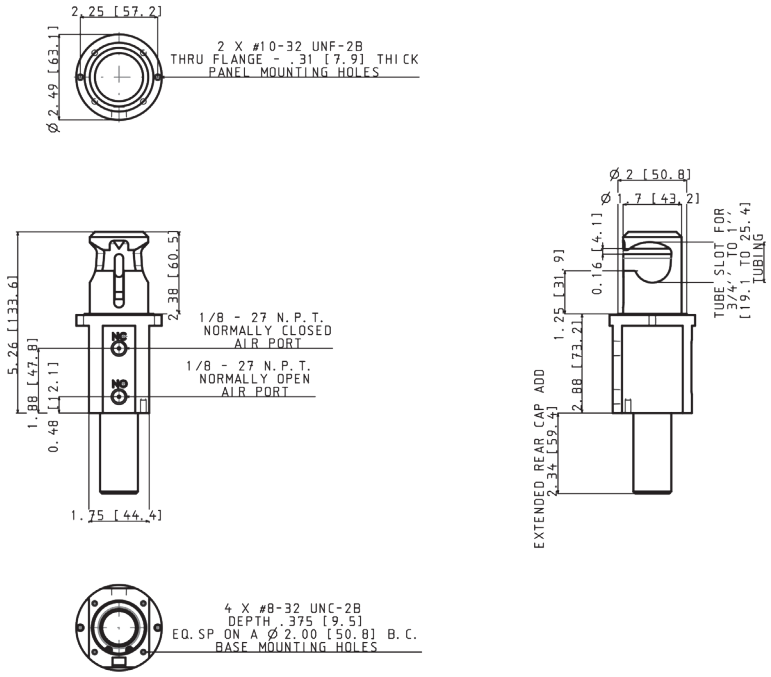

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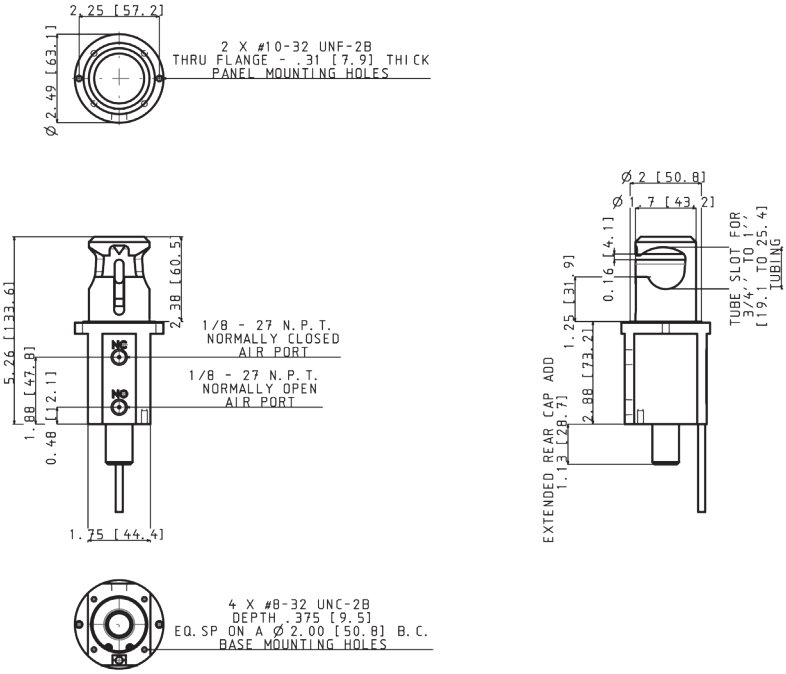

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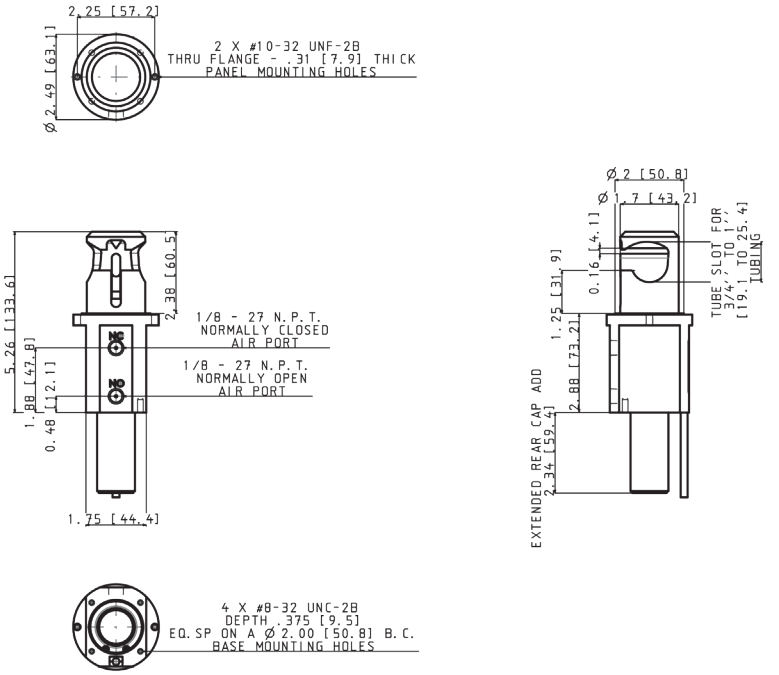

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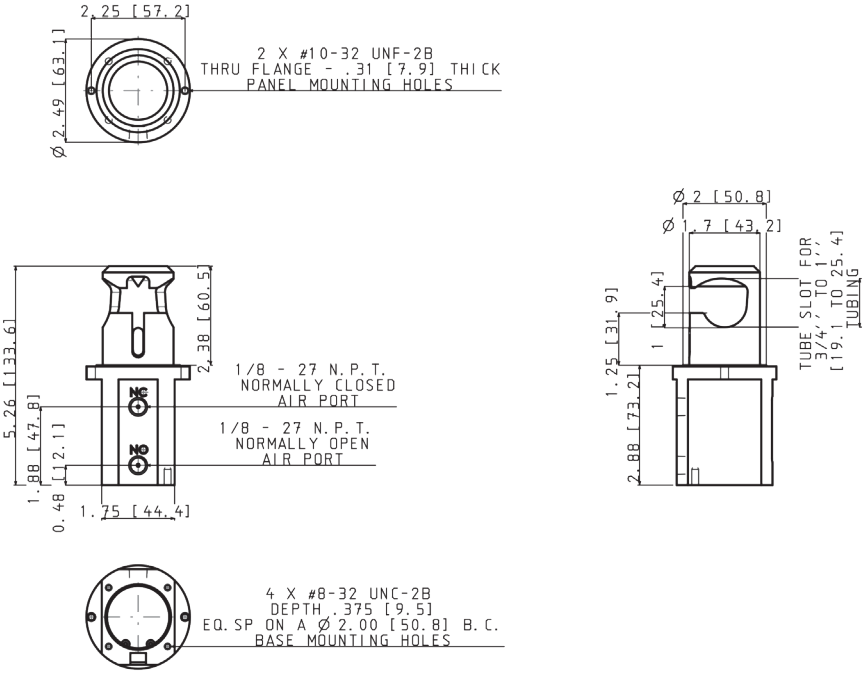
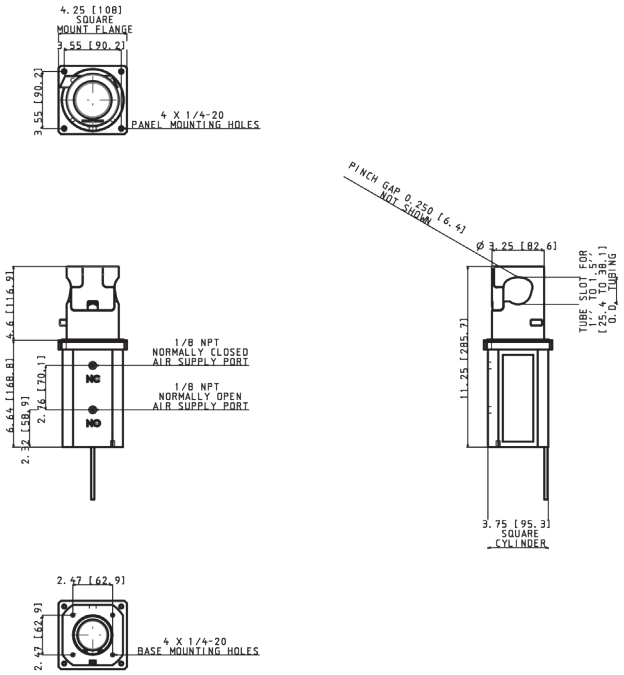
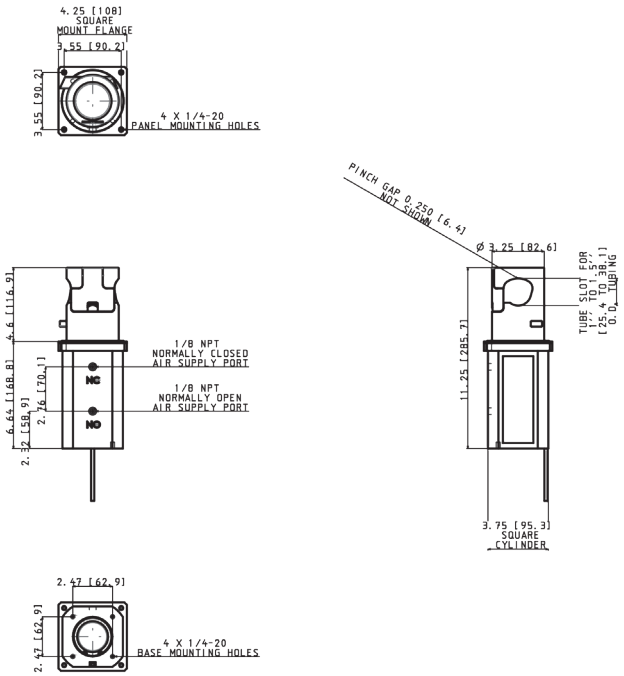


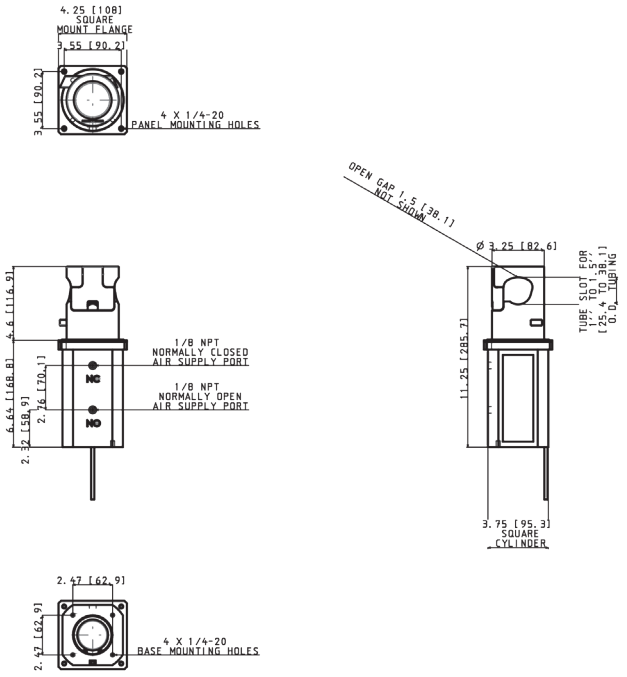
Dimensional Details: Inch [mm] - 936CS-SABP5-250-1500



Dimensional Details: Inch [mm] - 936CS-SABP8-250-1500



Dimensional Details: Inch [mm] - 936QS-SABP5-250-1500



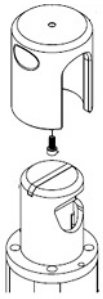
Accessories

Accessories			
Pneumatic Controller (Shelving)	**Part Number**	**Pneumatic Controller - Standard (Non-Shelving)**	**Part Number**
3-way 24 VDC Controller	K1003-24	3-way 12 VDC Controller	K1003-12
3-way 110/120 VAC Controller	K1003-110	3-way 220 VAC Controller	K1003-230
4-way 24 VDC Controller	K1004-24	4-way 12 VDC Controller	K1004-12
4-way 120 VAC Controller	K1004-110	4-way 220 VAC Controller	K1004-230

Controller Kit Parts -- Selected Controller, Push-In Fittings; 2 pcs. 10-31 to 1/4" Tube O.D., 4 pcs. 1/8 NPT to 1/4" Tube O.D., 2 pcs. 1/4" O.D. Tubing 18" Length, 1 pc. Brass Fitting 1/8 NPT

Safety Cap	Part Number	Inventory
Model 934 - 0.5" Tube Slot	A5650	Non-Shelving
Model 934 - 0.75" Tube Slot	A5651	Shelving
Model 935 - 0.75" Tube Slot	A5652	Shelving
Model 935 - 1.0" Tube Slot	A5653	Shelving
Model 934/935 - No Tube Slot	A5654	Shelving

**935 HF comes standard with safety cap and mounting leash provided*



How to Order

The model numbers of the 900 Series Pneumatic Pinch Valves consist of an alphanumeric cluster designating model number, normal state, sensor option, tube slot, material and color, operating power, force spec, maximum pinch gap, and total opening that together make up the complete part number to use in ordering. Use the ordering information below to build a valid part number.

An example of a pinch valve that is normally closed, no sensor, single tube slot, aluminum material in black, pneumatic, 5 force spec, 040 maximum pinch gap and 750 total opening is shown below in the part number configurator.

Model
932
933
934
935
936

Sensor Option	
N	No Sensor
S	Position Sensor

Material - Color	
AB	Aluminum Black
SS	Stainless Steel

Force Spec
1
2 (Low)
3
4
5 (Standard)
6
7
8 (High)
9

Total Opening
Total length from pinch ridge or pinch pin to top of piston when valve is fully opened. Units: thousandths of an inch/millimeter.

934CN - SABP5 - 040 - 0750

Normal State	
C	Normally Closed
Q	Normally Open

Tube Slot	
N	None
S	Single
D	Double
T	Triple

Operating Power	
P	Pneumatic

Max Pinch Gap
Units: thousandth of an inch/millimeter

Shelving Models
932CN-SABP5-040-0188
932QN-SABP5-040-0188
932CN-SABP5-060-0188
932QN-SABP5-060-0188
933CN-SABP5-040-0375
933QN-SABP5-040-0375
934CN-SABP5-094-0750
934CN-SABP5-160-0750
934QN-SABP5-094-0750
934QN-SABP5-160-0750
935CN-SABP5-160-1000
935CN-SABP8-160-1000
935QN-SABP5-160-1000

Standard Non-shelving Models
932CS-SABP5-040-0188
932QS-SABP5-040-0188
932CS-SABP5-060-0188
932QS-SABP5-060-0188
933CS-SABP5-040-0375
934CS-SABP5-094-0750
934CS-SABP5-160-0750
935CS-SABP5-160-1000
935CS-SABP8-160-1000
936CS-SABP5-250-1500
936CS-SABP8-250-1500
936QS-SABP5-250-1500

Versagrip® Solenoid Pinch Valves

Versagrip® Solenoid Pinch Valves

The Versagrip® Solenoid Pinch Valve product line supports tubing or disposable membrane bags ranging in the 0.063 – 0.375 inch OD or 1.6 – 9.5 mm sizing. 3 Models are orderable in 4 different configurations being single-tube normally open, single-tube normally closed, dual tubes toggling normally open and closed, or a headless cassette mountable options. All units are panel mount ready, and headed versions include a push button override for easy manual tube loading and unloading procedures.

The housing and plunger are made from stainless steel and valve heads are come as black delrin plastic offering superior corrosive resistance. An optional 900R solenoid control board or optical position state sensors are also available.

Features and Benefits

- Standard formats support customer selectable average tubing hardness up to 60 Shore A and 15 psi/1 bar media pressure
- Compact design with low operational noise
- Average actuation speeds of 80 milliseconds or less without tube loaded
- Seals prevent liquid penetration supporting easy cleaning or sterilization procedures
- Warranted for 3 million MTBF* or 18 months
- ROHS2 compliant
- UL429, CSA139, and CE 60601-1 3rd Edition certifications
- Calibrated for pinch force, pinch gap, and stroke to ensure optimal performance.

**MTBF based on 50% duty cycle testing carried out at 20 degrees ambient C using 60 Shore A tubing. Duty cycle is defined as On Time/(On Time + Off Time).*

Specifications - 1300N-CDBX5-080-0135

Mechanical
Recommended Tubing Size:* .187 - .250 Inch O.D. [4.8 - 6.4 MM O.D.]
Media pressure: 15 PSI Maximum
State: Normally Closed
Seals: Internal & Panel
Mounting: Panel Mount
Rec. Panel: 1/8" - 1/4" THK.
Tube Loading: Snap-in
Pinch Gap: .080" Nominal
Total Opening: .215" Nominal
Pinching Force: 5.0LBF Nominal
Maximum On-time: Designed for Extended On-time
Max. Cycle Rate: 1 Cycle per 5 Seconds at 50% Duty Cycle
Ambient Temperature: 40°C Maximum

Electrical
Recommended Supply: 72 Watts: 24VDC/3A
Power Consumption: (Without Tubing) Pull- In Power (Pulse): 20 - 42 Watts Hold-In Power (Hold): 0.5 - 2.3 Watts
Actuation: Pulse & Hold Driver Recommended

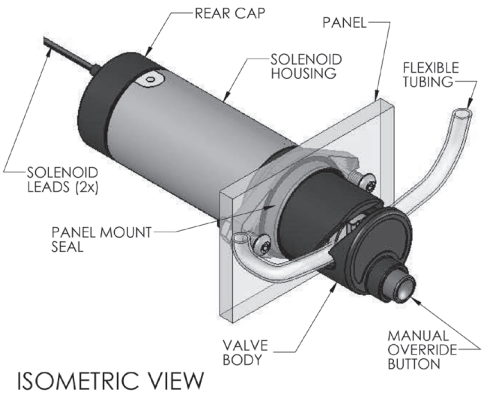
Electrical Cont'd
Position Sensing: None
Solenoid Lead Wires: 22 AWG UL1061, 12" Length
Connector: Molex P/N 43640-0201

Material
Weight/Mass: 16.5oz [470g]
Body: Black Acetal
Rear Cap: Black Acetal
Housing: 416 Stainless Steel
Seals: Black Silicone
Plunger Head: 316L Stainless Steel
Hardware: 303 Stainless Steel
Override: 303 Stainless Steel
Override Button: Black Acetal
Override Spring: Stainless Steel
Pinch Pin: 303 Stainless Steel

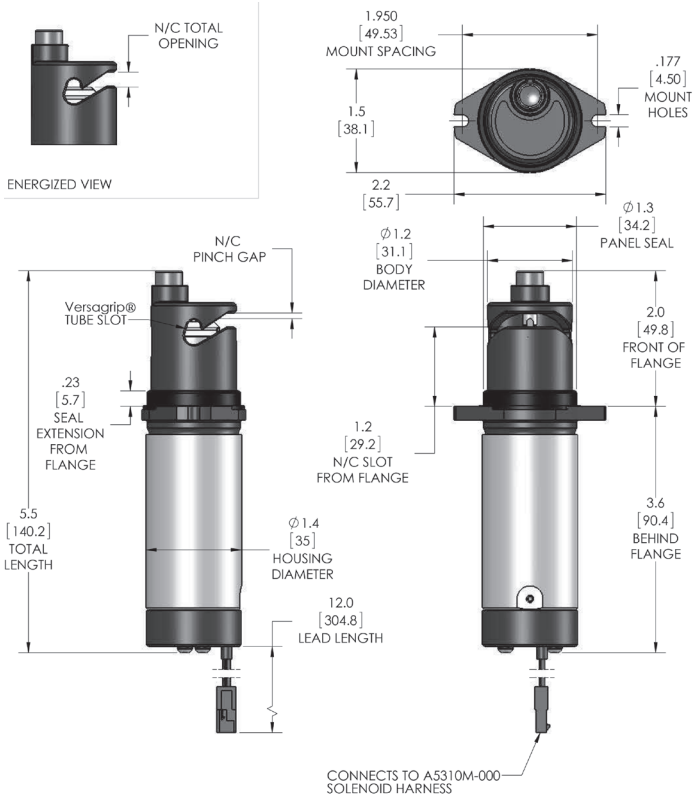
Compliance
RoHS 2 Compliant
Pending UL 429, CSA 139 & IEC 60601-1 3rd Edition

**See Product Selection Guide for specific tubing materials*

Dimensional Details: Inch [mm]



ISOMETRIC VIEW



Specifications - 1300N-DDBX5-080-0135

Mechanical
Recommended Tubing Size:* .187 - .250 Inch O.D. [4.8 - 6.4 MM O.D.]
Media pressure: 15 PSI Maximum
State: Normally Closed & Normally Open
Seals: Internal & Panel
Mounting: Panel Mount
Rec. Panel: 1/8" - 1/4" THK.
Tube Loading: Snap-in
Pinch Gap: .080" Nominal Both Slots
Total Opening: .215" Nominal Both Slots
Pinching Force: 5.0LBF Nominal Both Slots
Maximum On-time: Designed for Extended On-time
Max. Cycle Rate: 1 Cycle per 5 Seconds at 50% Duty Cycle
Ambient Temperature: 40°C Maximum

Electrical
Recommended Supply: 72 Watts: 24VDC/3A
Power Consumption: (Without Tubing) Pull- In Power (Pulse): 20 - 42 Watts Hold-In Power (Hold): 1.5 - 3.75 Watts
Actuation: Pulse & Hold Driver Recommended

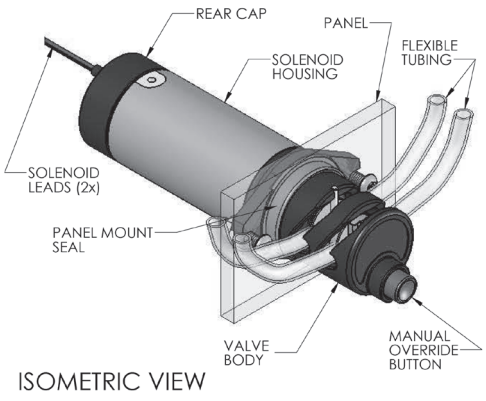
Electrical Cont'd
Position Sensing: None
Solenoid Lead Wires: 22 AWG UL1061, 12" Length
Connector: Molex P/N 43640-0201

Material
Weight/Mass: 16.5oz [470g]
Body: Black Acetal
Rear Cap: Black Acetal
Housing: 416 Stainless Steel
Seals: Black Silicone
Plunger Head: 316L Stainless Steel
Hardware: 303 Stainless Steel
Override: 303 Stainless Steel
Override Button: Black Acetal
Override Spring: Stainless Steel
Pinch Pin: 303 Stainless Steel

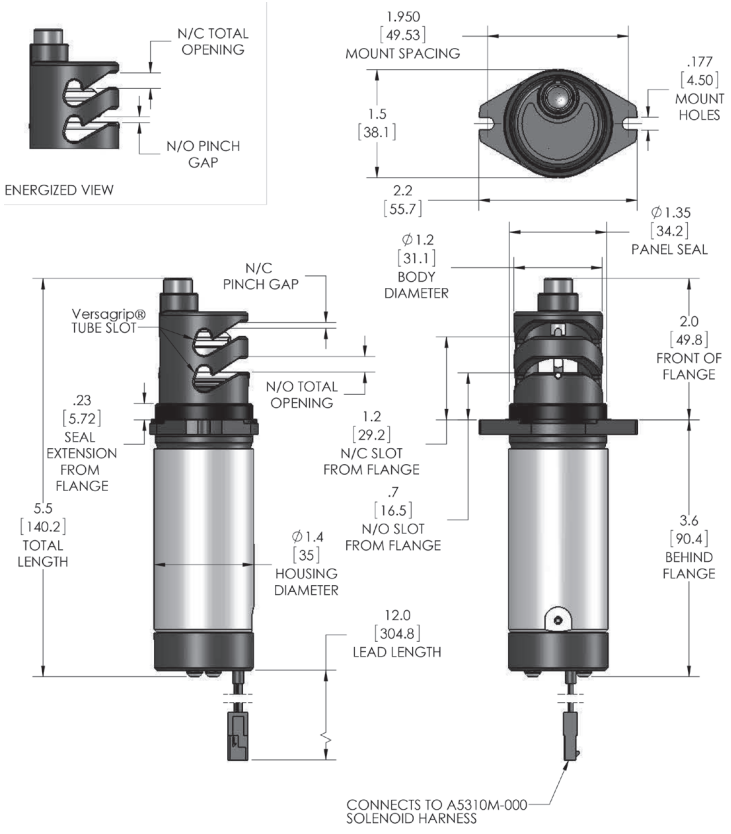
Compliance
RoHS 2 Compliant
Pending UL 429, CSA 139 & IEC 60601-1 3rd Edition

**See Product Selection Guide for specific tubing materials*

Dimensional Details: Inch [mm] -



ISOMETRIC VIEW



Specifications - 1300N-QDBX5-080-0135

Mechanical
Recommended Tubing Size:* .187 - .250 Inch O.D. [4.8 - 6.4 MM O.D.]
Media pressure: 15 PSI Maximum
State: Normally Open
Seals: Internal & Panel
Mounting: Panel Mount
Rec. Panel: 1/8" - 1/4" THK.
Tube Loading: Snap-in
Pinch Gap: .080" Nominal
Total Opening: .215" Nominal
Pinching Force: 5.0LBF Nominal
Maximum On-time: Designed for Extended On-time
Max. Cycle Rate: 1 Cycle per 5 Seconds at 50% Duty Cycle
Ambient Temperature: 40°C Maximum

Electrical
Recommended Supply: 72 Watts: 24VDC/3A
Power Consumption: (Without Tubing) Pull- In Power (Pulse): 5 - 13 Watts Hold-In Power (Hold): 0.5 - 1.25 Watts
Actuation: Pulse & Hold Driver Recommended

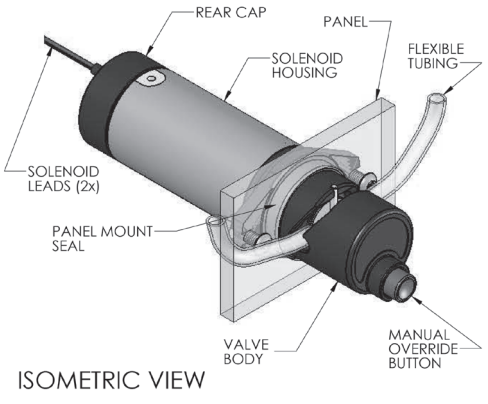
Electrical Cont'd
Position Sensing: None
Solenoid Lead Wires: 22 AWG UL1061, 12" Length
Connector: Molex P/N 43640-0201

Material
Weight/Mass: 16.5oz [470g]
Body: Black Acetal
Rear Cap: Black Acetal
Housing: 416 Stainless Steel
Seals: Black Silicone
Plunger Head: 316L Stainless Steel
Hardware: 303 Stainless Steel
Override: 303 Stainless Steel
Override Button: Black Acetal
Override Spring: Stainless Steel
Pinch Pin: 303 Stainless Steel

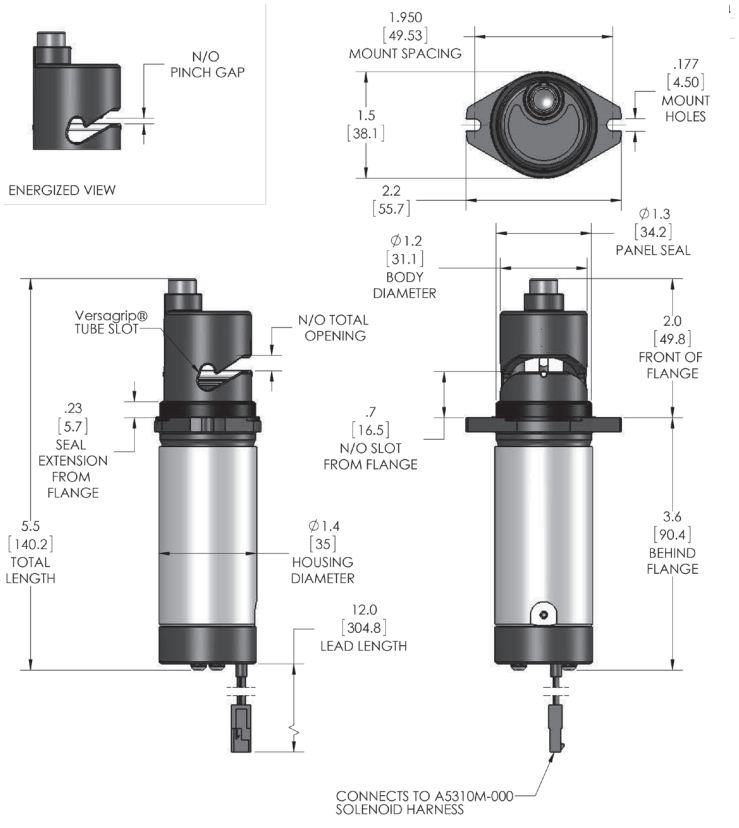
Compliance
RoHS 2 Compliant
Pending UL 429, CSA 139 & IEC 60601-1 3rd Edition

**See Product Selection Guide for specific tubing materials*

Dimensional Details: Inch [mm]



ISOMETRIC VIEW



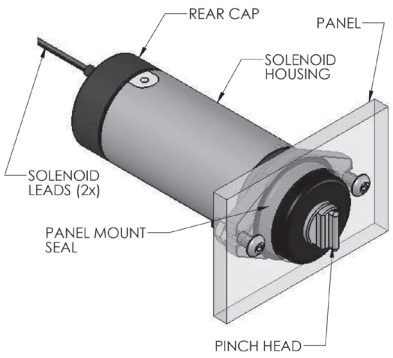
Specifications - 1300N-NDBX5-810-0135

Mechanical
Recommended Tubing Size:* .187 - .250 Inch O.D. [4.8 - 6.4 MM O.D.]
Media pressure: 15 PSI Maximum
State: Normally Closed
Seals: Panel
Mounting: Panel Mount
Rec. Panel: 1/8" - 1/4" THK.
Tube Loading: Cassette
Stroke Length: .135" NOMINAL
Pinching Force: 5.0LBF NOMINAL
Maximum On-time: Designed for Extended On-time
Max. Cycle Rate: 1 Cycle per 5 Seconds at 50% Duty Cycle
Ambient Temperature: 40°C Maximum
Electrical
Recommended Supply: 72 Watts: 24VDC/3A
Power Consumption: (Without Tubing) Pull- In Power (Pulse): 20 - 42 Watts Hold-In Power (Hold): 0.5 - 2.3 Watts
Actuation: Pulse & Hold Driver Recommended

Electrical Cont'd
Position Sensing: None
Solenoid Lead Wires: 22 AWG UL1061, 12" Length
Connector: Molex P/N 43640-0201
Material
Weight/Mass: 16.5oz [470g]
Body: Black Acetal
Rear Cap: Black Acetal
Housing: 416 Stainless Steel
Seals: Black Silicone
Plunger Head: 316L Stainless Steel
Hardware: 303 Stainless Steel
Compliance
RoHS 2 Compliant
Pending UL 429, CSA 139 & IEC 60601-1 3rd Edition

**See Product Selection Guide for specific tubing materials*

Dimensional Details: Inch [mm] -



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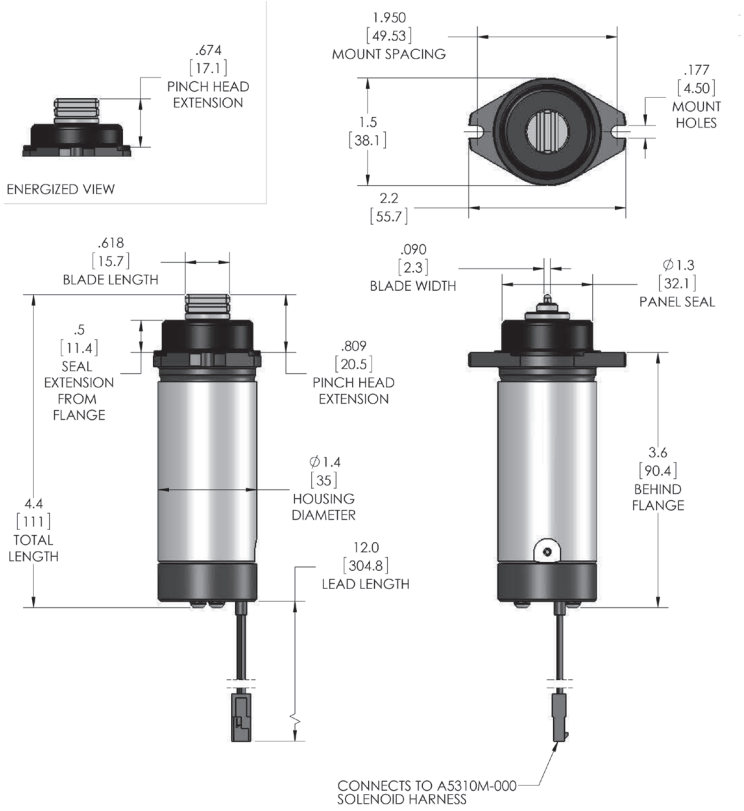


How to Specify

Product Selection Guide

Recommended tubing: Silicone Platinum Cured, Clear C-Flex, PharMed BPT up to 60 Durometer and up to 15 PSI media pressure.
For higher Durometers or media pressures consult Bimba.

Model	Tubing OD [in./mm]	ID [in./mm]	Tubing Slots	Normal State	Includes Position Sensor	Valve Part Number	Shipment Lead Time [days]
1100	.125 / 3.2	.063 / 1.6	1	Normally Closed	N	1100N-CDBX5-040-0060	1 - 3
1100				Normally Open		1100N-QDBX5-040-0060	
1100			2	(1) N/C, (1) N/O		1100N-DDBX5-040-0060	
1100			1	Normally Closed	Y	1100S-CDBX5-040-0060	5 - 10
1100				Normally Open		1100S-QDBX5-040-0060	
1100			2	(1) N/C, (1) N/O		1100S-DDBX5-040-0060	
1100	.157 / 4.0 MAX		1	N/C, Cassette Style	N	1100N-NDBX5-510-0060	1 - 3
1100					Y	1100S-NDBX5-510-0060	5 - 10
1300	.188 / 4.8 or .250 / 6.4	.063 / 1.6 or .125 / 3.2	1	Normally Closed	N	1300N-CDBX5-080-0135	1 - 3
1300				Normally Open		1300N-QDBX5-080-0135	
1300			2	(1) N/C, (1) N/O		1300N-DDBX5-080-0135	
1300			1	Normally Closed	Y	1300S-CDBX5-080-0135	5 - 10
1300				Normally Open		1300S-QDBX5-080-0135	
1300			2	(1) N/C, (1) N/O		1300S-DDBX5-080-0135	
1300	.250 / 6.4 MAX		1	N/C, Cassette Style	N	1300N-NDBX5-810-0135	1 - 3
1300					Y	1300S-NDBX5-810-0135	5 - 10
1400	.250 / 6.4 or .375 / 9.5	.125 / 3.2 or .250 / 6.4	1	Normally Closed	N	1400N-CDBX5-080-0160	1 - 3
1400				Normally Open		1400N-QDBX5-080-0160	
1400			2	(1) N/C, (1) N/O		1400N-DDBX5-080-0160	
1400			1	Normally Closed	Y	1400S-CDBX5-080-0160	5 - 10
1400				Normally Open		1400S-QDBX5-080-0160	
1400			2	(1) N/C, (1) N/O		1400S-DDBX5-080-0160	
1400	.375 / 9.5 MAX		1	N/C, Cassette Style	N	1400N-NDBX5-910-0160	1 - 3
1400					Y	1400S-NDBX5-910-0160	5 - 10

900R PWM Solenoid Controller Options:	
Part#	**Powering Supply and Trigger Configuration**
900RXV-1100	24VDC supply, 2-10VDC trigger
900RXX-1100	24VDC supply, 24VDC trigger
900RXV-1300	24VDC supply, 2-10VDC trigger
900RXX-1300	24VDC supply, 24VDC trigger
900RXV-1400	24VDC supply, 2-10VDC trigger
900RXX-1400	24VDC supply, 24VDC trigger

Versagrip Driver Board (VDB)

The Versagrip Driver Board (VDB) is a control module designed for interfacing high-performance solenoid actuators to computer systems and digital logic. It operates from a single 12 to 32 Volt DC supply (24VDC Standard). The user interface consists of an optically isolated differential input port rated for 3500VAC/5000VDC of isolation from VDB power supply. This trigger port can be directly wired to relays, transistor logic, digital input/output (I/O) boards, and Programmable Logic Controllers (PLC). The trigger port is designed for active-high operation. The VDB also provides multi-color diagnostic LED. The light is reflected to the sides of the enclosure cap, which in turn, allows visibility of the light from any direction.

The VDB contains a low-side Field Effect Transistor (FET) power switch employing a Pulse-Width Modulated (PWM) output. PWM operation conserves energy and reduces waste-heat production. This module is optimized for driving inductive electro-mechanical devices. The back EMF voltage from the load is internally clamped; an external fly-back diode is not required. An integrated microprocessor analyzes load current for additional power savings and short-circuit protection. The VDB is also protected against power reversal on its power supply pins.

The driver board configuration is programmed at the factory and is stored in a nonvolatile Electrically Erasable Programmable Read-Only Memory (EEPROM). The driver board configuration dictates pulse-and-hold levels, inrush current control parameters, and fault behavior.

Features and Benefits

- High output drive capability: 3.0A
- 75 watt drive power
- Supply range: +12V to +32V
- Footprint: 47.6mm x h 18.5mm (1.87 in. x h .73 in.)
- Weight: 22.7 grams (0.80 oz.)
- PWM output: 25.0kHz
- Integrated current sensor
- Reverse voltage protection
- Internal flyback diode
- Opto-isolated trigger port
- Multi-color diagnostic LED
- LED status light visible from all directions (360) even when stacked
- Adaptive pulse and hold technology
- Current controlled (standard) or voltage controlled hold state
- Packaging: ESD safe enclosure
- Stackable design
- RoHS compliant
- CE marked

Power Requirement

High performance DC solenoids are generally operated with either 12 or 24 Volt power supplies. The general recommended amperage is 3 amps per solenoid valve. Less amperage is possible if the actuation of the solenoid valves are staggered. Pin 1, the red lead wire, connects to the positive post of the power supply. Pin 4, black lead wire, connects to the ground post.

Trigger

Pin 3, the white lead wire, connects to the positive of the trigger device such as a PLC. Pin 6, the white lead wire with black stripe, connects to the ground of the triggering device. The solenoid is activated by applying 3.0 to 24 Volts to the trigger line. An alternate method is to connect a pull-up resistor to Pin 3 (connected to a voltage between 3 and 24VDC) then use an Open-Collector switch to Ground Pin 6. Unit can be operated without an external trigger if control will be done via turning power on and off. Connect Pins 1 and 3 together and Pins 4 and 6 together and the trigger line will be activated at the same time the supply power source is turned on.

Sensor (optional)

The sensor output is an open collector with an internal pull up resistor to 5V. Logic levels are designed with pinch valve energized when voltage is between 3.33 to 5.0VDC and pinch valve de-energized when voltage is between 0 and 1.66VDC. An example is a Versagrip solenoid valve, normally closed configuration only connected to the VDB. The VDB will provide a voltage output between Pin 2, the gray lead wire (positive), and Pin 5, the gray lead wire with black stripe (ground), between 3.33 and 5.0VDC when the solenoid valve is open and a voltage output between 0 and 1.66

Operation

Powering the trigger port initiates a pulse-and-hold cycle. This begins by supplying the load with an initial high-power pulse that is sufficient for activation. The pulse continues until it is either cut short by the adaptive logic, or T_{PULSE} elapses. At this point, the Hold State begins. In the Hold State, the controller operates the power switch in current controlled PWM mode and the reduced duty cycle maintains the solenoid's enegized position. When power is removed from the trigger port, the power switch is shut off and the cycle ends.

Diagnostic Indicator

The diagnostic indicator LED is red when the VDB is powered up and inactive (standby mode). It is orange/yellow during initial high power pulse, and is green during the hold cycle. (NOTE: because of the short duration of the high power pulse, the LED is orange/yellow for what appears to be only a short flash). A flashing red LED indicates device shutdown (generally due to a fault/over-current in the load). Power must be cycled on/off to clear this fault. An alternating red/grean LED indicates a cancelled hold cycle (which can occur because no Valve/Solenoid is attached or poor connection.

Electrical Interface

The VDB utilizes three Molex Micro-Fit 3.0 headers. It has an I/O port with 6 pins, a Solenoid Valve port with 2 pins, and a sensor port with 4 pins.

All VDBs are supplied with a ~0.2m (8") harness for the I/O connection. Additional lengths available for purchase include 1.0m (~40"), 2.0m (~80"), and 3.0m (120).

The Versagrip Solenoid Pinch Valves include 0.3m (12) of solenoid lead wire from the end of the valve. If additional cable length is required, 1.0m (~40), 2.0m (~80"), and 3.0m (120") extension valve-to-board cables are also available.

If the Versagrip Solenoid Pinch Valve has the optical sensor (optional), the sensor cable from the base of the pinch valve to the connector is 0.3m (12"), 1.0m (~40") 2.0m (~80"), and 3.0m (~120") extension sensor-to-board cables are also available.

Custom lengths for any of the above three cables can be produced. Please consult your sales representative for more details.

Packaging

The Versagrip Driver Board is a circuit board enclosed in a static dissipative base with a clear polycarbonate cover. It is mounted with #4-40 screws included (M3 x 25mm, not included) in two locations. The design of the enclosure allows vertical stacking.

IMPORTANT: Always use proper Electro Static Discharge (ESD) protection when handling, mounting, and connecting to the VDB.

Versagrip Driver Board (VDB) Tables

VDB I/O Pinout Description

Pin	Color	Connection
1	Red	Power Input (24VDC standard)
2	Gray	Sensor Feedback
3	White	Trigger (3-24VDC)
4	Black	Power Ground
5	Gray, black stripe	Sensor Ground
6	White, black stripe	Trigger Ground

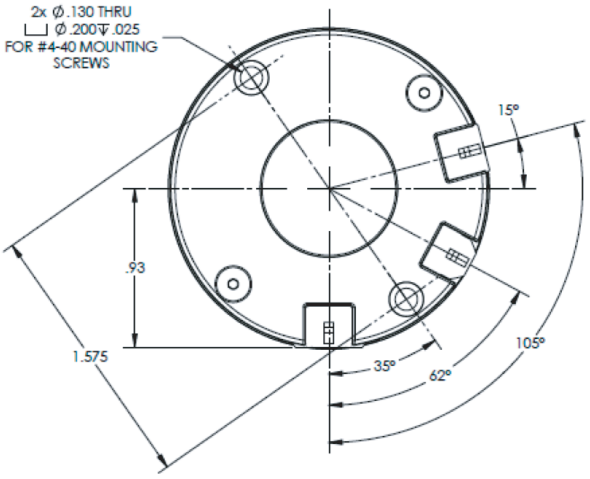
Electrical Characteristics

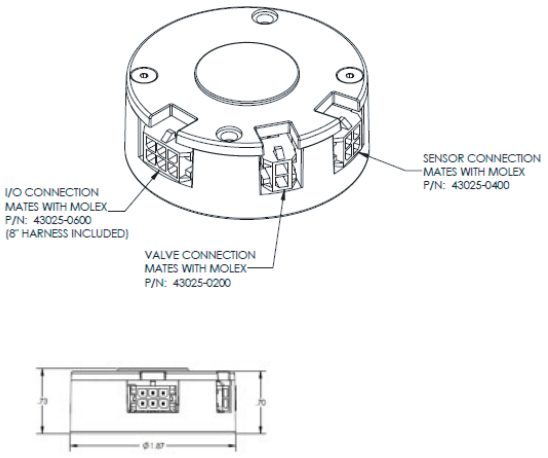
Sym	Min	Typ	Max	Units	Connection
T_{OP}	-35	-	60	ºC	Operating Temperature
T_{STG}	-50	-	100	ºC	Storage Temperature
V_{CC}	12	24	32	V	Operating Voltage
I_{CC}	-	15	30	mA	Standby Current (Valve/Solenoid Off)
V_{TRIG}	3.0	-	24	V	Trigger Input Voltage (Trig+ - Trig-)
I_{TRIG}	-	2	9	mA	Trigger Input Current
P_{PULSE}	-	50	75	W	Pulse Mode Output Power
P_{HOLD}	-	8	37	W	Hold Mode Output Power
I_{LOAD}	-	2.5	3	A	Load Current
F_{OSC}	24.0	25.0	26.5	kHz	PWM Output Frequency
I_{FAULT}	-	-	80	A	Current during Load Fault (200uS max)

Program Settings

Name	Min	Type	Max	Units	Description
T_{PULSE}	-	200	2000	mS	The maximum length of the initial high power pulse
I_{Δ}	0.00	0.75	3.00	A	Current differential for adaptive pulse and hold algorithm
I_{MAX}	0.00	3.00	3.40	A	Maximum instantaneous current. Load currents above this value will cause the device to shutdown in 200uS maximum.

Dimensional Details: Inch

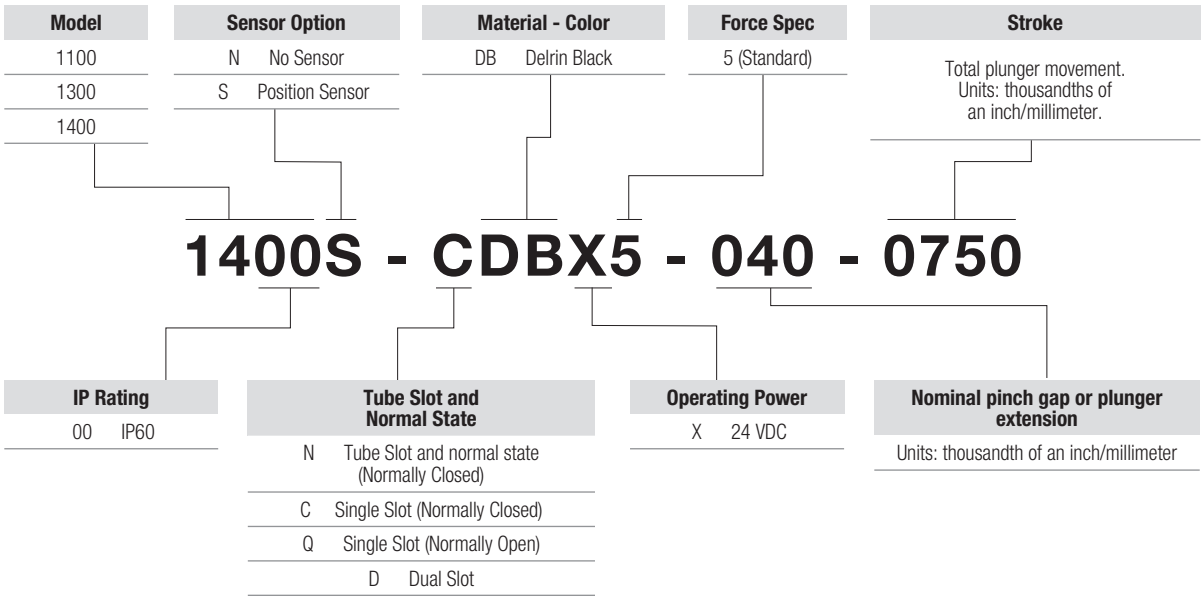




How to Order

The model numbers of the Versagrip® Solenoid Pinch Valves consist of an alphanumeric cluster designating model number, IP rating, sensor option, tube slot and normal state, material and color, operating power, force spec, nominal pinch gap, and stroke that together make up the complete part number to use in ordering. Use the ordering information below to build a valid part number.

An example of a pinch valve that is IP60 rating, position sensor, single slot normally closed, delrin material in black, 24 VDC operating power, 5 force spec, 40 nominal pinch gap, and 750 stroke is shown below in the part number configurator.



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