

Product Features

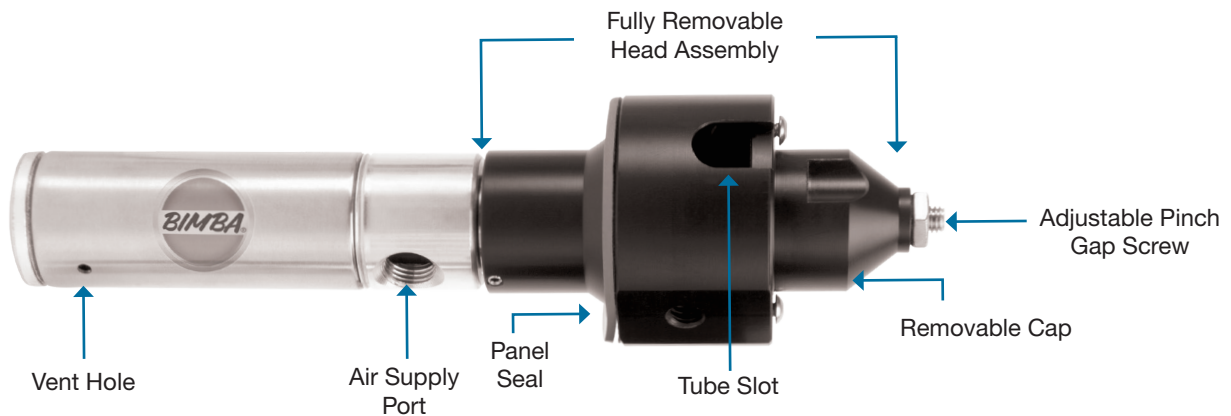
600 Series Pneumatic Pinch Valves

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
				Polyurethane	~90	60	60	603CS-SDBP5-020-0375
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	
				Silicone STHT-C	50	10	20	
604	3/16 - 1/4	1/4	1/8	Tygon 3350	50	9	18	604CN-SDBN5-090-0375 604CS-SDBN5-090-0375
				C-Flex	62	25	50	
				Pharmed BPT	64	24	48	
				Tygon ND-100-065	65	55	90	
				Silicone STHT-C	50	10	20	
				Tygon 3350	50	9	18	
606	1/4 - 3/8	3/8	1/4	C-Flex	62	25	50	606CN-SDBN5-090-0375 606CS-SDBN5-090-0375
				Pharmed BPT	64	24	48	
				Tygon ND-100-065	65	55	90	
				Silicone STHT-C	50	10	20	
				Tygon 3350	50	9	18	
				C-Flex	62	25	50	

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

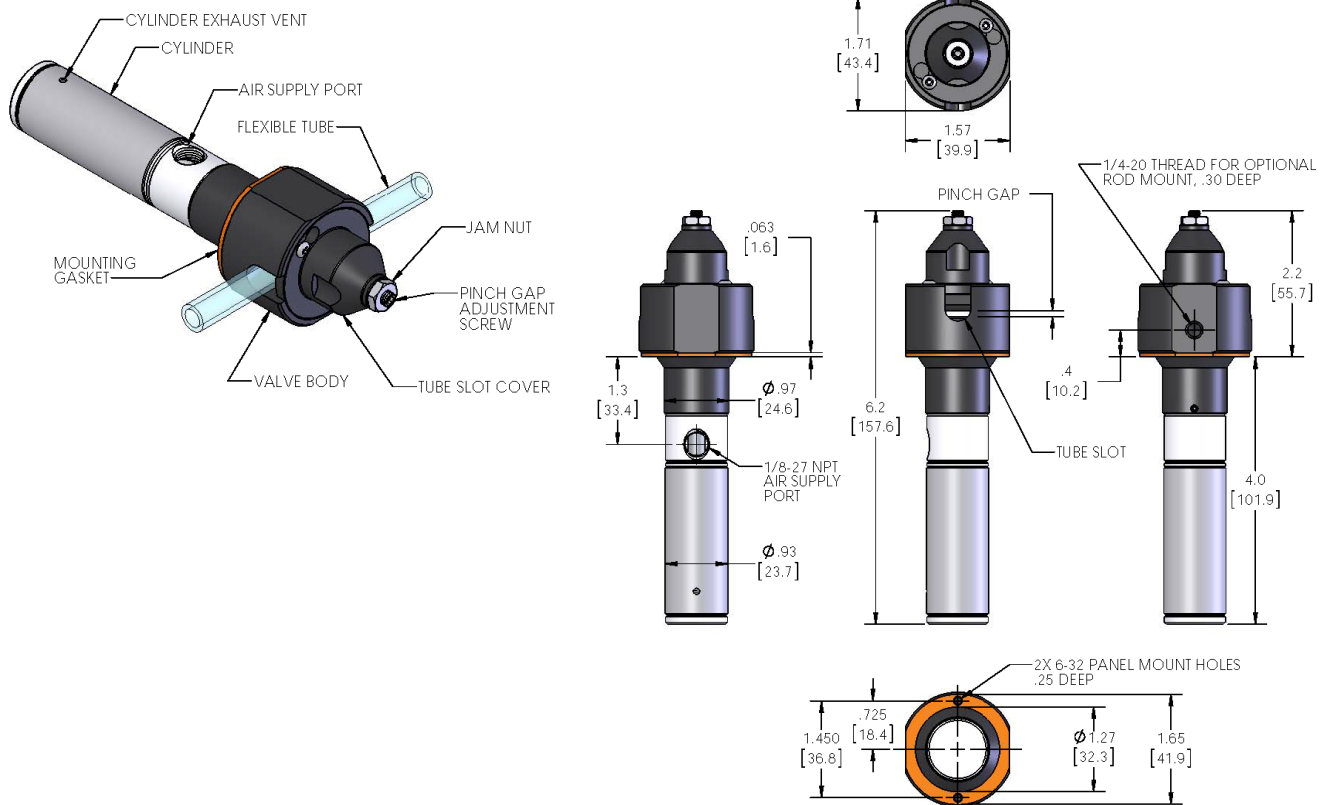
Weight/Mass: 200g [7 oz]
Cylinder: Aluminum/Stainless Steel
Body: Black Acetal
Cover: Black Acetal
Pinch Ridge: Black Acetal
Pinch Head: Black Acetal
O-Rings: Buna-N
Hardware: Stainless Steel
Mounting Gasket: Silicone
Switch Track: Aluminum
Pinch Pad (Optional): Neoprene

Compliance

RoHS 2 (Directive 2011/65/EU) Compliant

*See Product Selection Guide for specific tubing materials

Dimensional Details: Inch [mm] - 600CS Models



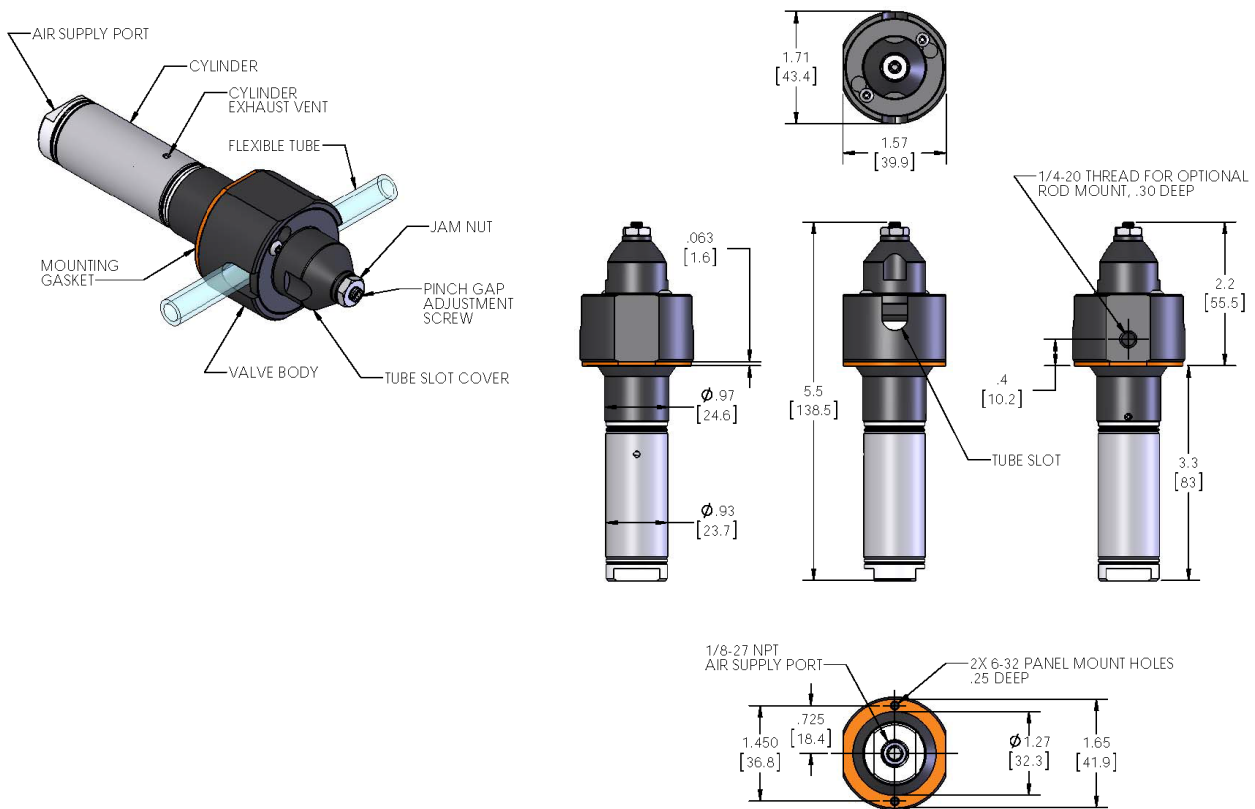
Specifications - 600QN Models

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

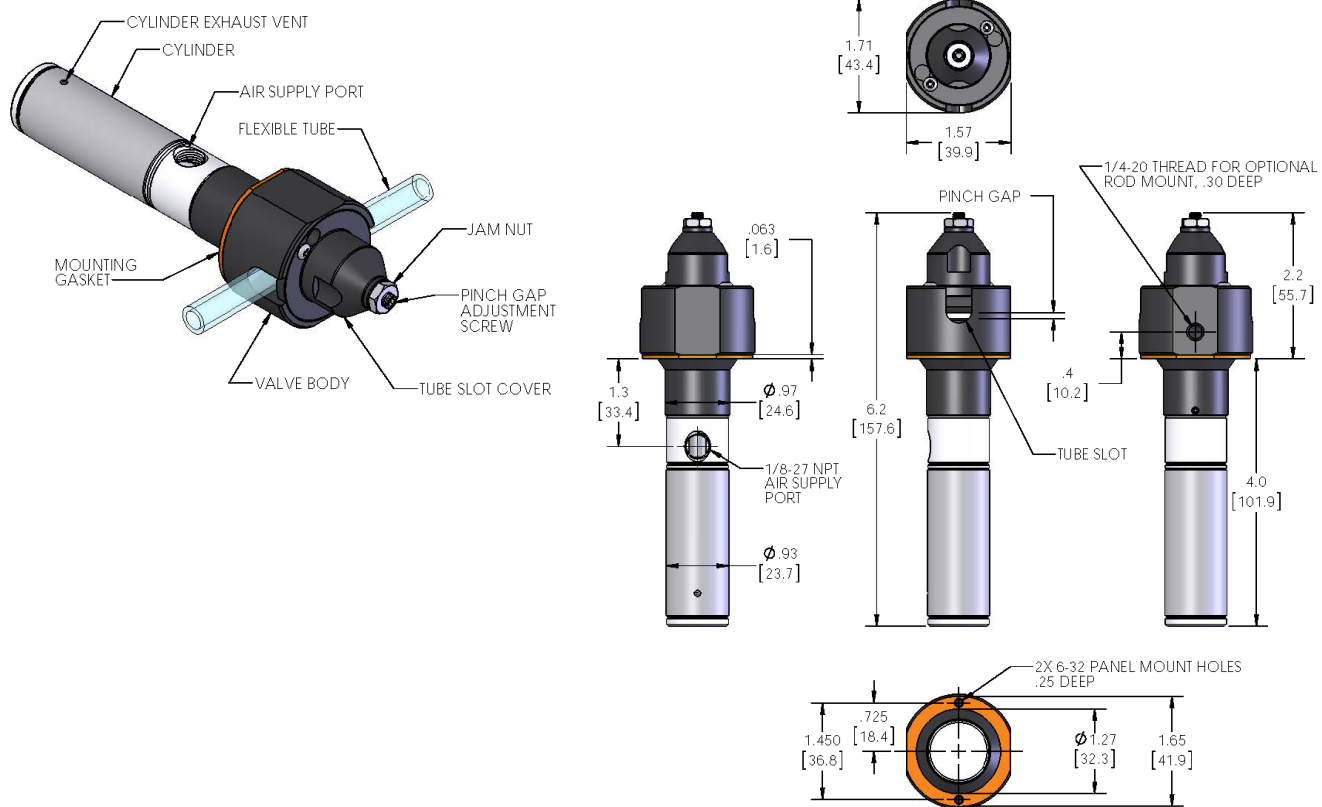
Specifications - 600CN Models

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
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Dimensional Details: Inch [mm] - 600CN Models



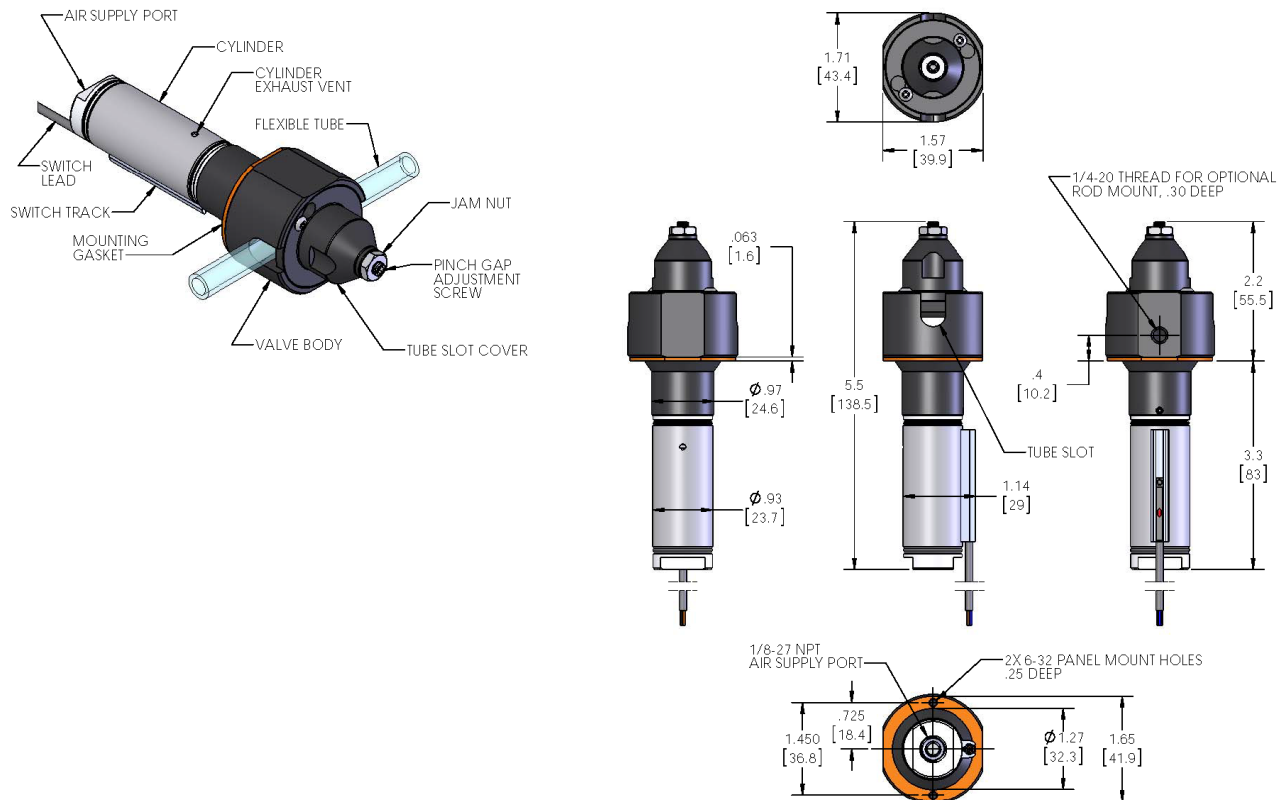
Specifications - 600QS Models

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

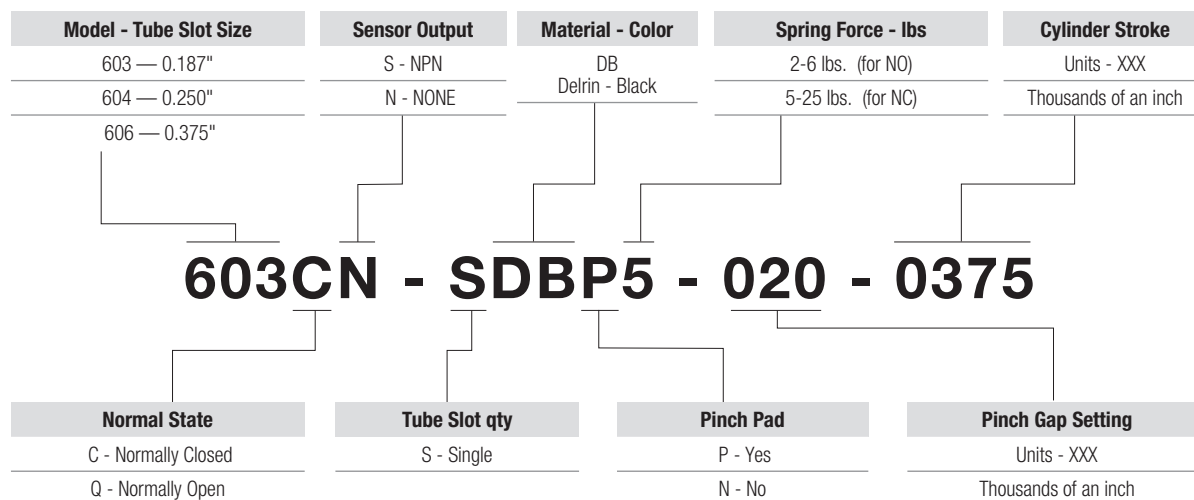


How to Order

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.



Stocked Configurations

Model 603	Model 604	Model 606
603CS-SDBN5-045-0375	604CS-SDBN5-090-0375	606CS-SDBN5-090-0375
603CN-SDBN5-045-0375	604CN-SDBN5-090-0375	606CN-SDBN5-090-0375
603QS-SDBN2-045-0375	604QS-SDBN2-090-0375	606QS-SDBN2-090-0375
603QN-SDBN2-045-0375	604QN-SDBN2-090-0375	606QN-SDBN2-090-0375
603CS-SDBP5-020-0375		
603CN-SDBP5-020-0375		
603QS-SDBP2-020-0375		
603QN-SDBP2-020-0375		

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

