



ACRO

Versagrip® Solenoid Pinch Valves



Delivering Innovative Pinch Valves &
Fluid Control Components





ACRO

DEDICATED TO SMARTER DEVICE DESIGN

With more than 40 years of experience, Acro Associates, Inc. continues to lead the industry in providing innovative fluidic products and engineering design services to the medical, bioprocessing and industrial communities.

From solenoid and pneumatic pinch valves, to fluidic fittings and accessories, the Acro team of experts is dedicated to helping design engineers satisfy regulatory requirements with only the most efficient solutions.

Industry-Leading Quality

As a certified California Department of Public Health medical device manufacturer and ISO 9001:2008 compliant company, Acro consistently delivers high-quality solutions.



- **QUALITY MANAGEMENT SYSTEM**

Acro's Quality Management Program employs Lean-Six Sigma best practices to ensure that customer, vendor and partner standards of quality are met.

Product Assurance

All products are rigorously inspected, tested and validated to guarantee that they meet manufacturer specifications and requirements for reliability and performance.

- **COMMITMENT TO GROWTH**

Metrics, including vendor certification/performance, manufacturing yields/failures and customer satisfaction are continually monitored to empower product and service improvement.

- **TRAINING**

Acro supports ongoing training and skill development for all employees—ensuring that customers experience superior service.

SOLENOID PINCH VALVES

The New Versagrip® Solenoid Pinch Valve series is offered in three model formats, each designed to work with a range of pinchable tubing or disposable bags. Each model is available in four options: single-tube normally open, single-tube normally closed, dual tubes toggling normally open and closed, or a headless cassette mountable option. All units are panel mount ready and versions that include a head also 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 supplied as black delrin. A novel patent-pending tube slot design supports easy tube loading and retention for a variety of tube sizes supported by each model. Optional optical position state sensors can be added to each unit to allow feedback to the positional state of the valve.



Features:

- Supports average tubing durometer 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
- 3 million MTBF* or 18 month warranty
- ROHS2 compliant
- Pending UL429, CSA139 and CE 60601-1 Third edition certifications

Operational Requirements:

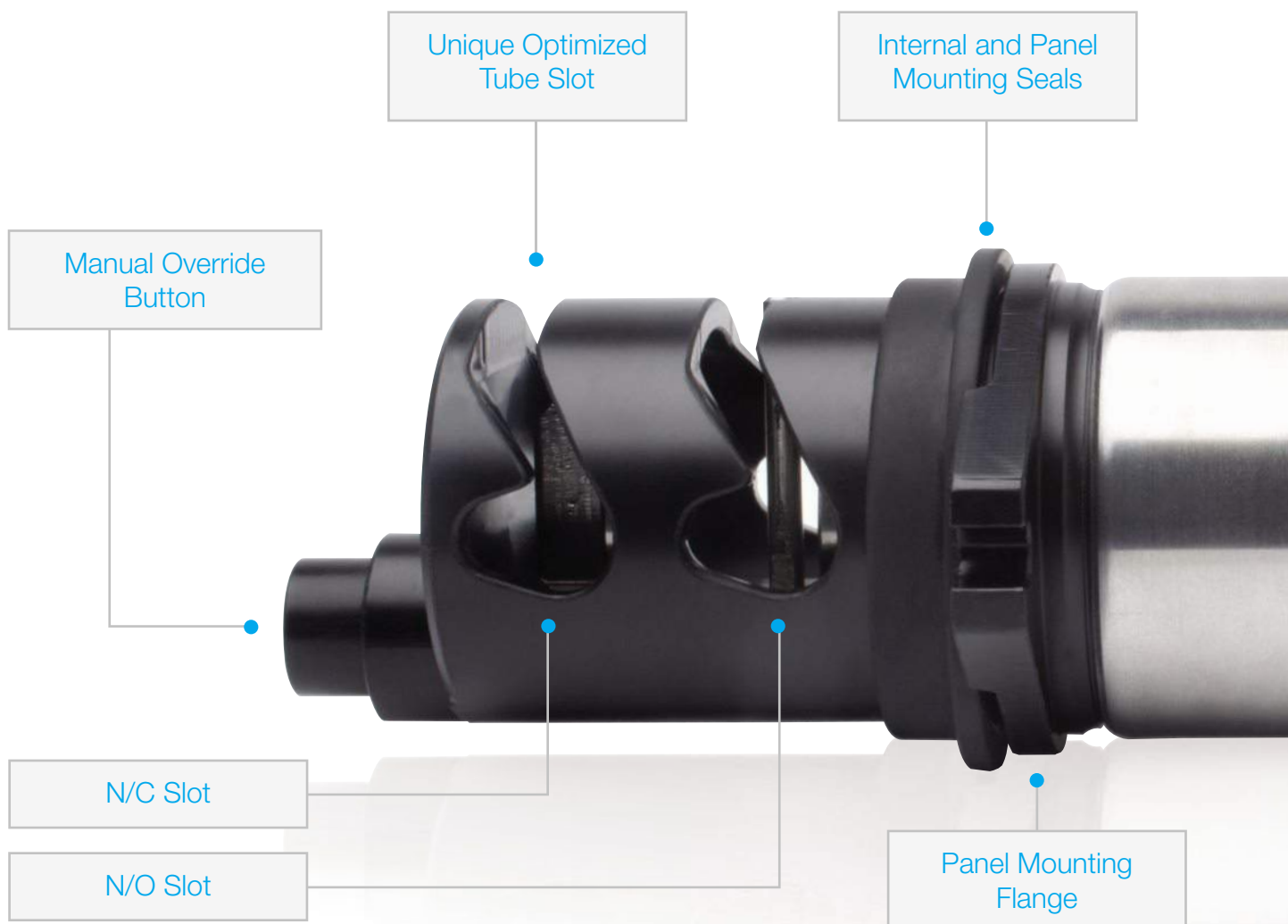
- 24VDC x 3A power supply
- Use of solenoid controller or pulse-width modulation methods for power and heat management

Accessories and Customization:

- Model 900R solenoid controller
- Optical digital position state sensor
- Custom manifolds for multi-valve mounting
- Need customization? Let us know and we can discuss modifications

VERSAGRIP® DESIGN AND FEATURES

US Patent-Pending Design



Applications

- Medical Device Systems
- Food and Beverage Filling
- Industrial Filling
- Biopharm Bioprocessing Systems
- Light Powder or Semi Viscous Fluid Dispensing





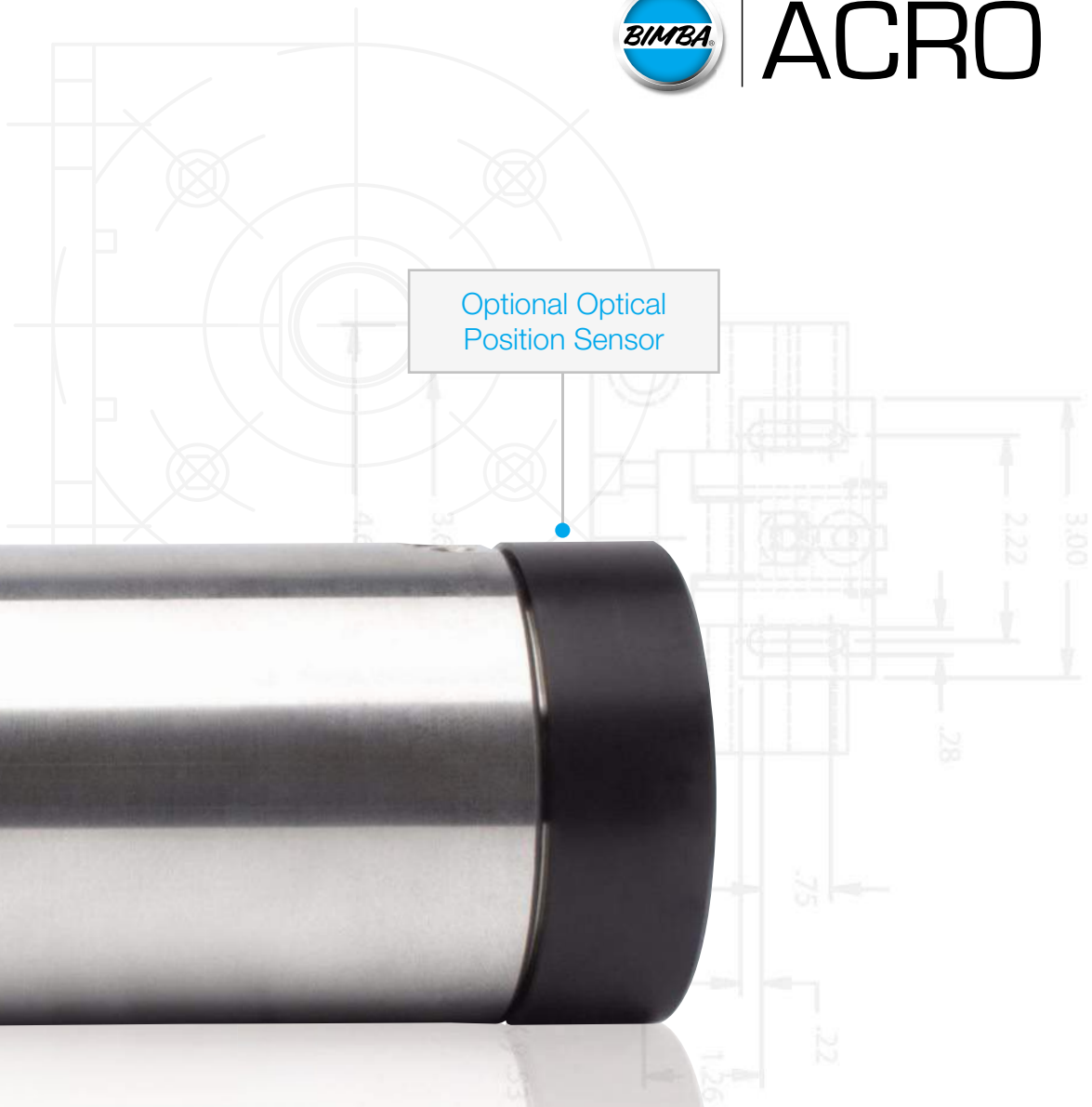
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Optional Optical
Position Sensor



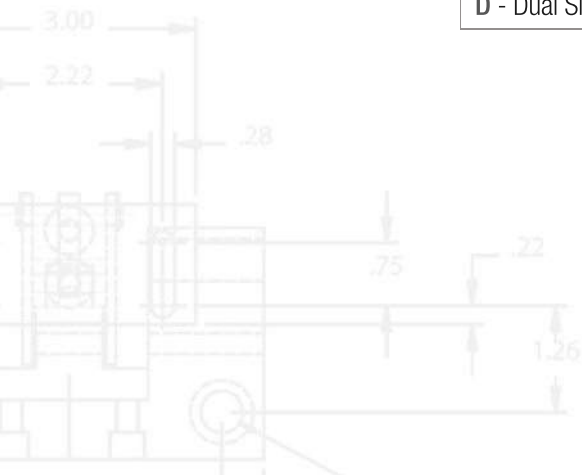
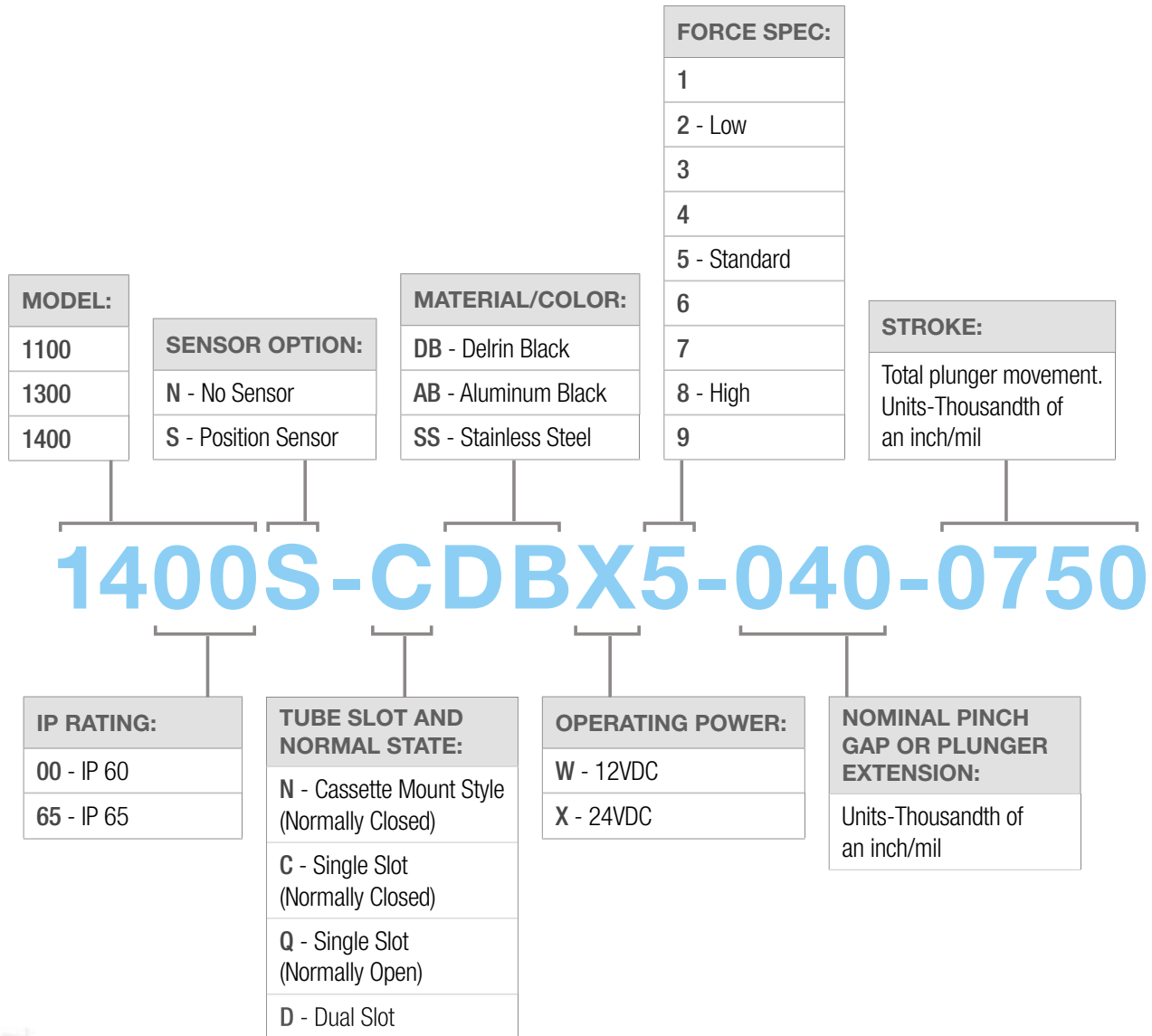
Novel Optimized
Pinch Geometry

Panel Seal



Versagrip® Solenoid Valve

ACRO PART NUMBER KEY



Versagrip® Solenoid Pinch Valves

PART NUMBER ORDERING GUIDE

Recommended tubing: Silicone Platinum Cured, Clear C-Flex, PharMed BPTup to 60 Durometer average and up to 15 psi media pressure. For higher durometer, media pressure, alternate materials or if applying vacuum, consult Acro Associates.

Valve Model	ID [in./mm]	Tubing OD [in./mm]	Tubing Slots	Normal State	Includes Position Sensor	Valve Part Number	
1100	.063 / 1.6	.125 / 3.2	1	Normally Closed	N	1100N-CDBX5-040-0060	
1100				Normally Open		1100N-QDBX5-040-0060	
1100			1	2	(1) N/C, (1) N/O	Y	1100N-DDBX5-040-0060
1100					Normally Closed		1100S-CDBX5-040-0060
1100			1	2	Normally Open	Y	1100S-QDBX5-040-0060
1100					(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	
1100					Y	1100S-NDBX5-510-0060	
1300	0.063 / 1.6 MIN - 0.250 / 6.4 MAX Wall thickness of 0.0625 / 1.6		1	Normally Closed	N	1300N-CDBX5-080-0135	
1300				Normally Open		1300N-QDBX5-080-0135	
1300			1	2	(1) N/C, (1) N/O	Y	1300N-DDBX5-080-0135
1300					Normally Closed		1300S-CDBX5-080-0135
1300			1	2	Normally Open	Y	1300S-QDBX5-080-0135
1300					(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	
1300					Y	1300S-NDBX5-810-0135	
1400	0.125 / 3.2 MIN - 0.375 / 9.5 MAX Wall thickness of 0.0625 / 1.6		1	Normally Closed	N	1400N-CDBX5-080-0160	
1400				Normally Open		1400N-QDBX5-080-0160	
1400			1	2	(1) N/C, (1) N/O	Y	1400N-DDBX5-080-0160
1400					Normally Closed		1400S-CDBX5-080-0160
1400			1	2	Normally Open	Y	1400S-QDBX5-080-0160
1400					(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	
1400					Y	1400S-NDBX5-910-0160	

900R SOLENOID PWM CONTROLLER BOARD OPTIONS

Part Number	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

About Acro and Bimba

Acro Associates is a leading innovator in pinch valves and fluid control componentry for medical, bioprocessing and industrial applications. As a wholly-owned subsidiary of Bimba Manufacturing, a global leader in actuation technologies, Acro is a part of a family of brands that includes Mead, MFD, Pneumadyne and TRD. Together, they provide industry-leading actuator based pneumatic, hydraulic, electric and automation solutions worldwide. Acro is based in Concord, CA and Bimba is headquartered in University Park, IL. For more information, visit acroassociates.com or bimba.com.



Acro Associates, Inc.

1990 Olivera Road, Suite A, Concord, CA 94520
Phone: 925-676-8828 Fax: 925-680-8113
Email: info@acroassociates.com www.acroassociates.com

Acro Associates Europe

22 Windmolen
7609 NN Almelo, The Netherlands
Phone +31-548-659-084 | Fax: +31-548-659-010

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