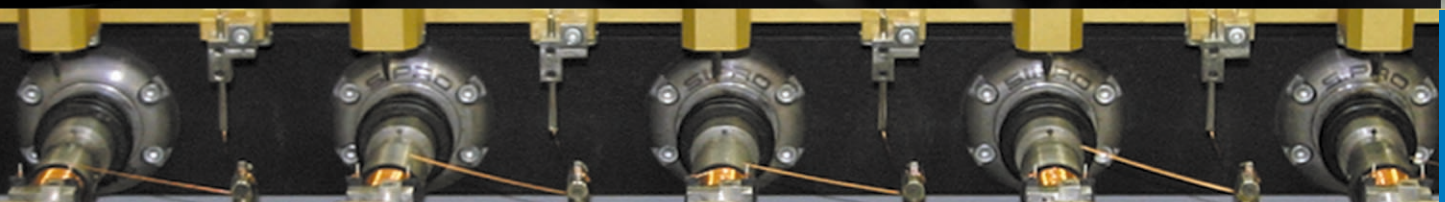
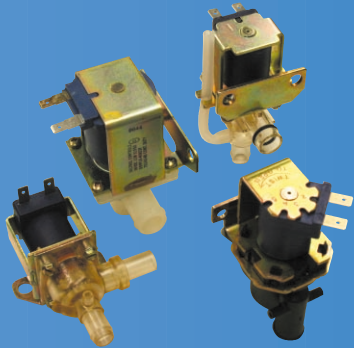


Dispensing Valves
www.deltrol-controls.com



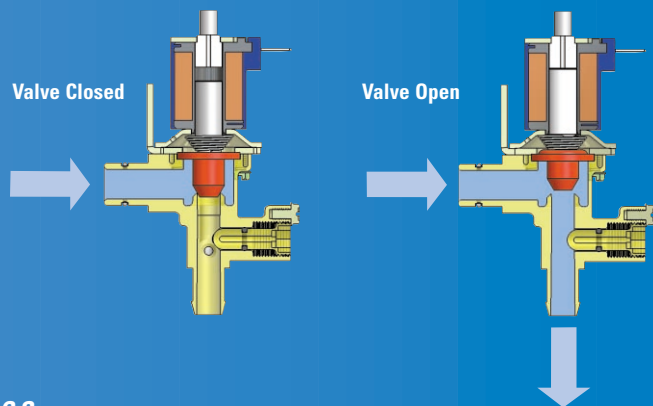
Product Description



Deltrol Controls Liquid Dispensing Valves are direct-acting, gravity fed (up to 3 psi) valves primarily designed to dispense water (up to 210° F) or similar media from a tank. While the most common application for this type of valve is coffee and vending equipment, they are also used in ice machines, water purification systems, and floor scrubbers. Deltrol Controls offers 4 types of Liquid Dispensing Valves, each providing unique features for your application. Each of these valves is briefly described in this brochure, and complete product information can be obtained by visiting our web site at www.deltrol-controls.com.

Principle of Operation

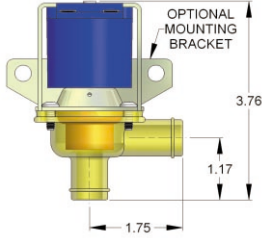
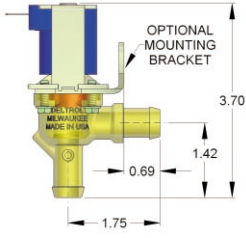
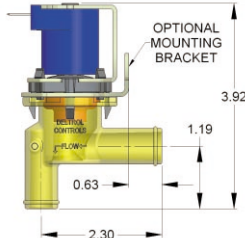
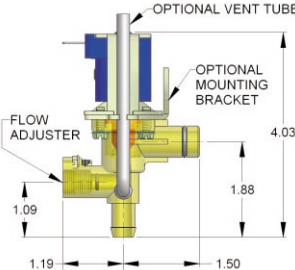
The following illustration shows a common Liquid Dispensing Valve. A water source is typically connected to the inlet port of the valve, and the valve controls the flow of fluid to the outlet port. In the closed position, the diaphragm is biased against a valve seat by a spring, preventing water flow. When power is applied to the coil, the plunger and diaphragm move away from the valve seat, allowing liquid to pass through the valve.



Features

- Polyester encapsulated, Class F coils
- 0.25 x 0.03 male, quick connect terminals are molded in for greater strength
- UL recognition (US & Canada) for most models, NSF listed for Polysulfone and Nylon bodies
- Optional QF "Quiet Flow" coil for quiet AC operated valves (models DSVP11, DSVP12, & DSVP14)
- Optional vent hole or tube allows full release of outlet media
- Life expectancy: 125,000 cycles under normal conditions
- Multiple inlet and outlet port configurations available - special designs may be available upon request
- Multiple material options available to suit your specific application

Dispensing Valves

	DSVP10	DSVP11	DSVP12	DSVP14
				
General Description	Our largest valve, designed for large capacity flow requirements.	Our most common valve - it offers multiple port and bracketry options to suit your application.	Our newest valve - a twist apart design eliminates the need for tools and allows the user to configure the coil and bracket orientation "on the spot" for their application.	This valve provides superior flow consistency and an easy-to-use flow rate adjuster integral to the valve body.
Electrical Specifications				
Coil Voltages	24, 120, 240 VAC, 50, 60 Hz 12, 24, 36 VDC	24, 120, 240 VAC, 50, 60 Hz 12, 24, 36 VDC	24, 120, 240 VAC, 50, 60 Hz 12, 24, 36 VDC	24, 120, 240 VAC, 50, 60 Hz 12, 24, 36 VDC
Internally rectified AC Coils	No	Yes	Yes	Yes
Coil Power	30 W (standard)	12 W (AC), 11 W (DC) (standard)	12 W (AC), 11W (DC) (standard)	12 W (AC), 11 W (DC) (standard)
Coil Terminals	0.25" spade terminals	0.25" spade terminals	0.25" spade terminals	0.25" spade terminals
Duty Cycle	Intermittent (standard)	Continuous (standard)	Continuous (standard)	Continuous (standard)
Normal Ambient Temperature	95° F (35° C)	95° F (35° C)	77° F (25° C)	95° F (35° C)
Coil Treatment	Polyester encapsulated	Polyester encapsulated	Polyester encapsulated	Polyester encapsulated
Insulation Class	Class F 311° F (155° C)	Class F 311° F (155° C)	Class F 311° F (155° C)	Class F 311° F (155° C)
Mechanical Specifications				
Media	Water & water-based solutions up to 210° F (99° C) Polysulfone body up to 170° F (77° C) Nylon body	Water & water-based solutions up to 210° F (99° C) Polysulfone body up to 170° F (77° C) Nylon body	Water & water-based solutions up to 210° F (99° C) Polysulfone/Noryl body up to 170° F (77° C) Nylon body	Water & water-based solutions up to 210° F (99° C)
Max. Head Pressure	18" w.c. standard, up to 40" optional	12" w.c. standard, up to 72" optional	24" w.c. standard, up to 72" optional	12" w.c. standard, up to 72" optional
Max. Flow Rate @ 4" w.c. (water @ 73° F)	3.6 fl oz/sec	1.5 fl oz/sec (Ø0.302 valve seat) 1.9 fl oz/sec (Ø0.406 valve seat)	1.1 fl oz/sec (#5 valve body) 1.8 fl oz/sec (#2 valve body)	1.6 fl oz/sec (standard version) 1.75 fl oz/sec (high flow version)
Max Flow Rate @ 12" w.c. (water @ 73° F)	5.8 fl oz/sec	2.5 fl oz/sec (Ø0.302 valve seat) 3.3 fl oz/sec (Ø0.406 valve seat)	2.0 fl oz/sec (#5 valve body) 3.0 fl oz/sec (#2 valve body)	2.5 fl oz/sec (standard version) 2.8 fl oz/sec (high flow version)
Inlet/Outlet Connection	Ø0.77 barb / Ø0.77 barb	Ø0.62 OD with O-ring / Ø0.63 or Ø0.50 barb 1/4-18 NPTF / Ø0.63 or Ø0.50 barb Ø.47 or Ø.53 OD / Ø0.50 barb Ø0.63 barb / Ø0.63 barb	Ø0.69 barb / Ø0.63 barb Ø0.47 OD / Ø0.50 barb	Ø.62 OD with O-ring / Ø0.51 barb
Bracket Options	Available in 90° increments See web site for available options	Available in 90° increments See web site for available options	Available in 90° increments See web site for available options	Available in 90° increments See web site for available options
Optional Vent Tube	No	Yes	Yes	Yes
Normally Open Version Option	Yes-DC only	Yes	No	Yes
Flow Adjuster Option	Yes - Backstop adjuster	Yes - Backstop adjuster	No	Yes - integral to valve body
Valve Body Material	Polysulfone, Nylon	Polysulfone, Nylon	Noryl®, Nylon, Polysulfone	Polysulfone
Diaphragm Material	Silicone, Viton®, EP	Silicone, Viton®, EP, EPDM	Silicone, Viton®	Silicone
Weight	14 oz	8 oz	6.6 oz	8 oz
Agency Approvals				
NSF	NSF-18 listed Polysulfone and Nylon bodies with Silicone diaphragm only	NSF-18 listed Polysulfone and Nylon bodies with Silicone diaphragm only	NSF-18 listed Polysulfone and Nylon bodies with Silicone diaphragm only	NSF-18 listed Polysulfone body and Silicone diaphragm only
UL & cUR	File No. MH12958	File No. MH12958	File No. MH12958	File No. MH12958
Other				
US Patent No.			6,684,901	

Viton® is a registered trademark of DuPont Dow Elastomers.
Noryl® is a registered trademark of General Electric Company.

Specifications subject to change without notice.

Other Deltrol Controls Products

In addition to our liquid dispensing valves, Deltrol Controls also designs and manufactures solenoids, relays, and custom assemblies. We offer an extensive line of standard products and have an in-house engineering staff that will work with you to design a custom product specific to your application.

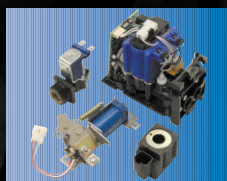
Please visit www.deltrol-controls.com for further information.



Solenoids



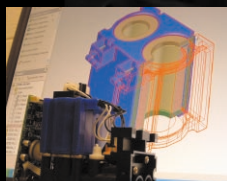
Relays



Custom Assemblies

Deltrol Controls Overview

Deltrol Controls has supplied world-class products to industries for over 40 years. Our products are made at our 110,000 - sq. ft. manufacturing facility in Milwaukee, WI, and other ISO-compliant facilities worldwide. We have extensive in-house engineering and manufacturing capabilities that allow us to design and manufacture products that exceed our customers' expectations. Please feel free to contact us to discuss your specific application.



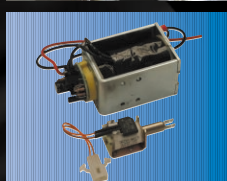
Custom Product Engineering/Manufacturing



On-Site Product Testing



Product Manufacturing



Value Added Assembly