

## LOW POWER SOLENOIDS

0.5 – 1.8W Solenoid Options

Low-Temp Seals and Configurations

### REAL WORLD CHALLENGES

Solenoid coils generate heat; the higher the wattage necessary to operate, the more heat is generated. A high-heat scenario may prove costly once the coil is packaged in an enclosure or installed next to any sensitive equipment. Hot-running coils may also affect a system's ambient temperature ratings. High wattage requirements may cause problems for applications with long wire runs. The cost of heavy gauge wire is often a considerable portion of installation costs. Not only are long-distance power cables expensive to install, but they also open opportunities for a voltage drop, making solenoid coils unreliable.

- Efficient Power availability in remote locations
- Carbon footprint
- Expensive power consumption
- High Power/Flow Ratio



### THE VERSA SOLUTION

VERSA's low-power solenoid valves are the ideal choice for customers seeking to reduce their power consumption without compromising performance. Our field-proven offerings range from 7.2 watts down to 0.5 watts and can be used in a variety of industrial, commercial, and process applications.

#### **Super Low-Watt 0.85W or 0.5W Solenoid Coil Options:**

When traditional power is unavailable, incorporating super low-watt 0.85W or 0.5W solenoid coils enables reliable valve automation through site-generated power sources such as solar panels and battery packs. With the right pneumatic circuit design, large, ported spool valves piloted with low-power solenoids can allow small power pulses to control larger flows. This combination is a great way to quickly control critical applications with low power.

#### **Double-Solenoid Detented Valve Options:**

For the absolute minimum power consumption, VERSA's offering of double-solenoid, detented valves enables only a milliseconds pulse of low power to shift the valve safely and securely. VERSA's field-proven, low-power offerings range from 7.2 watt down to 0.5 watt. This is a great high-reliability magnetic latching solenoids.

#### **D-Series High Flow, Direct-Acting Valves:**

VERSA offers a solution for applications requiring low-power, generous flow, and a direct-acting valve. Traditionally our D-series high-flow, direct-acting valves require 2.6 watts to operate. With the addition of our new low-power suppressor option, suffix option -LLP, we can operate this coil at 1.0 watts after initial in-rush. This enhancement opens new application uses for VERSA's high-flow direct-acting option.

## Low Power Solenoids – Package Options:

POWER	OPTION PACKAGE	SUFFIX ID	DESCRIPTION
0.5 Watt	-XV9D (DC ONLY)	-D14	Moisture and dust excluder
		-HT	Class H coil
		-LZ	0.5 watt, 120 psi max, NEMA 4X, 6P IP 66,67,68 (o-ring sealed), epoxy molded, continuous duty coil
		-ST	Stainless enclosure
		-XX	Hazardous location North America 1/2" conduit 24" leads
	-XDBT9D (DC ONLY)	-XDBS9D	Stainless enclosure integral junction box - terminal strip M20 x 1,5 mm conduit connection
		-D14	Moisture and dust excluder
		-HT	Class H coil
		-LZ	0.5 watt, 120 psi max, NEMA 4X, 6P IP 66,67,68 (o-ring sealed), epoxy molded, continuous duty coil
		-JB-ST	Stainless Enclosure
0.85 Watt	-XXV4 All Valves (DC Only)	-D14	Moisture and dust excluder
		-LA	0.85 watt solenoid 120 psi max -
		-PC	Potted coil NEMA 4X - protection against ingress of moisture
		-XX	Hazardous location North America 1/2" conduit 24" leads
	-XV9C All Valves (DC ONLY)	-D14	Moisture and dust excluder
		-HT	Class H coil
		-LV	0.85 Watt, 150 psi max, NEMA 4X, 6P IP 66,67,68 (o-ring sealed), epoxy molded, continuous duty coil
		-ST	Stainless enclosure
		-XX	Hazardous location North America 1/2" conduit 24" leads
	-XDBT9C All Valves (DC ONLY)	-D14	Moisture and dust excluder
		-HT	Class H coil
		-LV	0.85 Watt, 150 psi max, NEMA 4X, 6P IP 66,67,68 (o-ring sealed), epoxy molded, contentions duty coil
		-JB-ST	Stainless Enclosure
		-XDB	Hazardous location - North America, CSAus, ATEX, IECEx, INMETRO, TR CU
	1.8 Watt	-XXN4 All Valves	-D14
-LB			1.8 watt solenoid 120 psi max - reduced power consumption
-PC			Potted coil NEMA 4X - protection against ingress of moisture
-XX			Hazardous location North America 1/2" conduit 24" leads
-XV9 All Valves AC & DC		-D14	Moisture and dust excluder
		-HT	Class H coil
		-LX	1.8 Watt, 200 psi max, NEMA 4X, 6P IP 66,67,68 (o-ring sealed), epoxy molded, continuous duty coil
		-ST	Stainless enclosure
		-XX	Hazardous location North America 1/2" conduit 24" leads
-XDBT9 All Valves AC & DC		-D14	Moisture and dust excluder
		-HT	Class H coil
		-LX	1.8 Watt, 200 psi max, NEMA 4X, 6P IP 66,67,68 (o-ring sealed), epoxy molded, continuous duty coil
		-JB-ST	Stainless Enclosure
		-XDB	Hazardous location-North America, CSAus, ATEX, IECEx, INMETRO, TR CU
7.2 Watt Stainless 9.5 Watt Brass	-XXL4 All Valves AC & DC	-D14	Moisture and dust excluder
		-PC	Potted Coil NEMA 4X - Protection against ingress of moisture
		-XX	Hazardous location North America 1/2" conduit 24" leads

VERSA  
22 Spring Valley Road  
Paramus, New Jersey 07652, USA  
Phone: 201-843-2400  
Fax: 201-843-2931

VERSA BV  
Prins Willem Alexanderlaan 1427  
7321 GB Apeldoorn, Netherlands  
Phone: +31-55-368-1900  
Fax: +31-55-368-1909

Email: [sales@versa-valves.com](mailto:sales@versa-valves.com)  
Web: [www.versa-valves.com](http://www.versa-valves.com)

