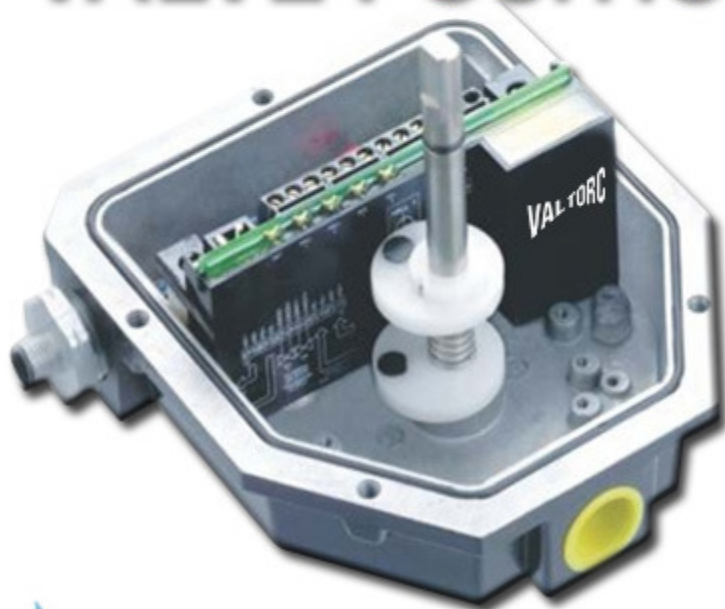


VALTORC DEVICENET VALVE POSITION CONTROLLERS



DeviceNet Valve Position Controllers

The Valtorc VPCs with encapsulated **DeviceNet** interface cards adapt your on/off automated valves to an advanced **DeviceNet** valve network. Money and time can be saved as installation and maintenance are streamlined, reducing wiring runs and improving system diagnostics.

Based on the CAN protocol, the **DeviceNet** protocol was developed by Allen Bradley to provide industry with a simple and cost effective method of networking field devices. Valtorc supplies a full range of accessories including cable and quick-disconnect connectors to simplify installation.

Advanced DeviceNet Platform Improves Reliability

The Network Card. A full function encapsulated network card for the network protocol includes the following benefits:

- > Encapsulated electronics and position sensors ensures reliability in corrosive, humid and dirty environments.
- > Hall effect position sensors designed into the card provide optimum stability in areas of high vibration.
- > Two transistor outputs with a combined output of up to 4.8w @ 24VDC are available for your solenoid valves
- > High visibility LEDs are located on-board for local indication of on-board sensors, auxiliary inputs, outputs and network status.
- > Two additional inputs are available for local pressure or temperature switches.

The Physical Platform. Valtorc's platform is available in many configurations:

- > Housings in Aluminum, Hard Anodized Aluminum or SuperTough Zytel for General Purpose or Hazardous Areas
- > Valtorc's proven Engineered Loc-Ring Cam and Shaft Retention System assures stable output signals in difficult environments over a multi-million cycle life.
- > Optional Mini and Micro plug connectors can be fitted to the conduit entries of the enclosures to speed installation.

The Visual Indicator. Valtorc's High Visibility Valve Position Indication preferred by users worldwide are available in a wide variety of colors and flow patterns.

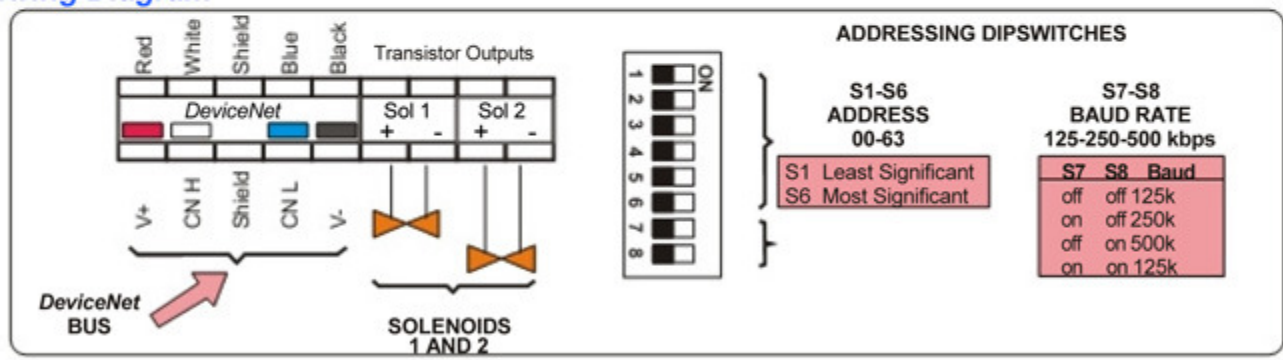
The Solenoid Valve. Low power solenoid valves optimized for the network card output are available with direct NAMUR actuator mounting or pre-wired to the VPC.

DeviceNet® Technical Information

- > Each Network Supports up to 64 Nodes or Addresses
- > 125K, 250K, and 500K Baud Rates
- > Maximum Trunk Length = 1640 feet
- > Thick and Thin Cable Types
- > Trunkline / Dropline Topology
- > Supports Online Node Insertion and Removal

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Wiring Diagram



Standard DeviceNet[®] Network Card Specifications

Power	
Voltage	24Vdc ±15%
Current	<70mA
Communication	
Type	Slave
Communication	Polled
Word	1 byte TX - 1byte RX
Addressing	0 to 63 Set by Dipswitch
Transmission Rate	125-250-500 Kbs Baud Set by Dipswitch
Digital Filter	25ms
Configuration	
Input - Byte 1	Bit 0 - Sensor 1 Bit 1 - Sensor 2
Output - Byte 1	Bit 0 - Output 1 (sol. 1) Bit 1 - Output 2 (sol. 2)
Local Indication	
Green (Light)	Active and Allocated
Green (Flashing)	Active and Allocated
Red (Flashing)	Wrong Baud Rate or Lost Communication
Red (Light)	Double Address or Lost Communication

On-Board Sensor Inputs	
Type	(2) Hall Effect Solid-State Sensors, (1) for Each Valve Position
Local Indication	LEDs
Auxiliary Inputs	
Type	(2) Namur, by DIN19234 or Mechanical Switch
Voltage	8Vdc ± 5% - Ripple 5%
Current	active <1mA Inactive >3mA
Indicator	(2) LEDs
Protection	Reversed Polarized
Output	
Type	(2) Transistor or Relay, Programmable NO or NC
Transistor Rating	24VDC / 2 x 200 mA
Relay Voltage	120 VAC, 220 VAC, 24 VDC
Relay Power	0.30A
Indicator	(2) LEDS

