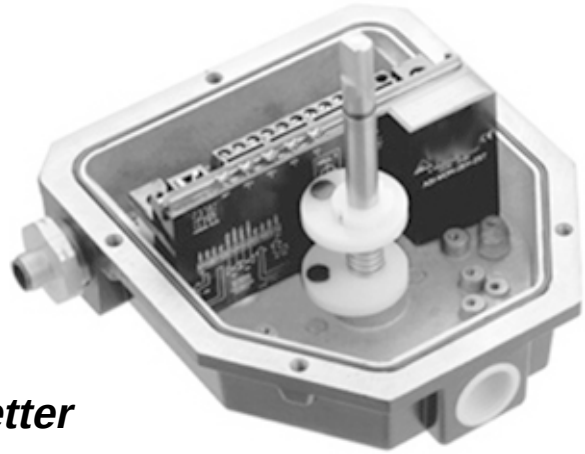
SVF Flow Controls
INCORPORATED

DeviceNet Valve Networking

SVF's "Network Solutions" with encapsulated DeviceNet interface cards adapt your on/off automated valves to an advanced DeviceNet valve network. Money and time will be saved as installation and maintenance are streamlined with reduced wiring and improved 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. SVF supplies a full range of accessories including cable and quick-disconnect connectors to simplify installation.



SVF's DeviceNet Platform is Simply Better

DeviceNet Technical Information

- ▲ Each network supports up to 64 nodes or addresses
- ▲ 125K, 250K, and 500K bit/sec
- ▲ 1640 ft. maximum trunk length
- ▲ Thick and Thin cable types
- ▲ Trunkline / Dropline topology
- ▲ Supports online node insertion and removal

Standard DeviceNet Network Card Specifications

Power	
voltage	24Vdc +/-15%
current	<70mA
Communication	
type	slave
communication	polled
word	1 byte TX e 1 byte RX
addressing	0 to 63 set by dipswitch
transmission rate	125-250-500 KBaud 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	red LEDs
Auxiliary Inputs	
type	(2) NAMUR (DIN 19234) or mechanical switch
voltage	8Vdc +/- 5% - ripple 5%
current	active <1mA, inactive >3mA
indicator	(2) red LEDs
protection	reverse polarized
Output	
type	(2) transistor or relay programmable to NO or NC
transistor rating	24 VDC / 400mA
relay voltage	120 VAC, 220 VAC, 24 VDC
relay power	1A
indicator	(2) red LEDs

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