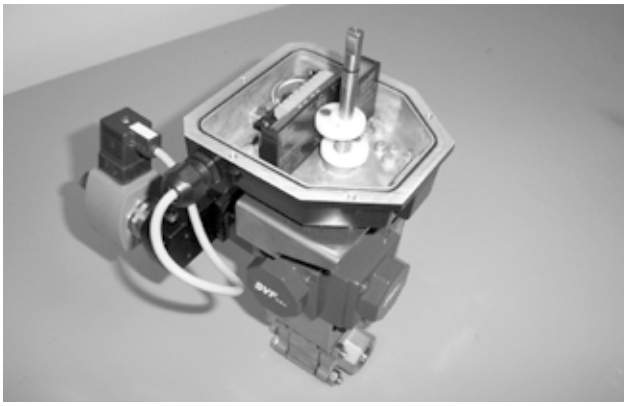
SVF Flow Controls
INCORPORATED

ASi Valve Position Controllers

The ASi network protocol was developed to provide industry with a simple and cost effective method of networking on/off automated valves. A SVF network card can interface directly with your plant's PLCs or through other protocols such as ASi, DeviceNet, Foundation Fieldbus, Profibus or Modbus utilizing a gateway.



SVF's ASi Platform is Simply Better

ASi Technical Information

- ▲ Supports up to 124 inputs and 124 outputs over 31 nodes or addresses
- ▲ Baud rate at 167Kbit (no termination required)
- ▲ Scan time <5ms for a fully loaded system
- ▲ Can be installed in any topology
- ▲ Bus power and communications share the same 2 wire cable
- ▲ Standard 16AWG or special AS-interface flat cable can be used
- ▲ 990 ft. total bus length (with minimum 2 repeaters)
- ▲ High level noise and temperature immunity make ASi an excellent choice for the process plant environment.
- ▲ Each AS-interface node requires its own unique address (master/slave)
- ▲ No configuration software required
- ▲ Nodes can be addressed using buttons on master, hand-held programmer, or through serial communications

Standard ASi Network Card Specifications

Power	
voltage	30Vdc (ASi standard)
current	<30mA
local indication	green LEDs
Communication	
type	slave
addressing	1 to 31 (0 from factory)
cycle time	less than 5ms
ASi Configuration	
Bit D0	proximity switch #2
Bit D1	proximity switch #1
Bit D3	ready signal
Bits P0, P1, P2, P3	not used
IO code	IO = 1H
ID code	ID = FH

On Board Sensor Inputs	
Type	(2) Hall effect solid-state sensors, (1) for each valve position
local indication	Green LEDs
Auxiliary Inputs	
type	NAMUR (DIN 19234) or mechanical switch
voltage	8Vdc +/- 5% - ripple 5%
current	active <1mA, inactive >3mA
local indication	green LED (each input)
protection	reverse polarized
Output	
type	(2) transistor or relay
transistor rating	2W @ 24 VDC
relay contact	programmable NO or NC
relay voltage	120 VAC, 220 VAC, 24 VDC
current	1A

13560 Larwin Circle Santa Fe Springs, CA 90670 800.783.7836 fax 562.802.3114
Sales@SVF.net www.SVF.net