WESTLOCK CONTROLS

INTELLIS 7200/7300/7400/7500/7600/7700 NETWORK CONTROL MONITORS

EXPLOSIONPROOF, INTRINSICALLY SAFE, AND NON-INCENDIVE - NEC

Intellis is a family of fully-integrated control monitors that provide cost-effective valve automation and intelligent networking via all the major network protocols.

FEATURES

Models 7200/7300/7400/7500/7600/7700

- Dedicated network modules (PACs) for all major protocols.
- Simple in-field conversion of network protocols.
- Multiple housing options (resin, aluminum, stainless steel).
- Models approved for all hazardous area applications.
- Control & monitoring for rotary and linear valves.
- Non-contact position monitoring by Hall effect sensors.
- Integrated pneumatic actuation control via pre-wired Falcon solenoid valves.
- On-line predictive and maintenance-related diagnostics.
- Eliminates wiring cost of conventionally-hardwired I/O systems.
- Reduces design engineering man-hours
- Range of drive shaft options.
- Visual indication Beacon available in a choice of styles and colors.

TECHNICAL DATA

Agency approvals	
Area Classification (NEC 500)	
Explosionproof	Class I, Div. 1, Groups C, D; T6; Class I Div. 2, Groups A, B, C, D; T5 ; Class II, III, Div. 1, Groups E, F, G; T6; Ta = 60 °C
Non-incendive	Class I, Div. 2, Groups A, B, C, D;Class II, III, Div. 2, Groups F, G; (Only applies to conduit entries 1A and 1B) T4; Ta = -40 °C to 60 °C;
Intrinsically Safe (7300 only)	Class I, Zone 0 AEx ia IIC; T4; Ta = -40°C to 80°C Class I, Div. 1, Groups A, B, C, D; T4; Ta = -40°C to 80°C
Enclosure standards (ANSI/NEMA 250)	
All Enclosures	Type 4, 4X
Network protocols supported	
Intellis 7200	PROFIBUS DP
Intellis 7300	FOUNDATION Fieldbus™
Intellis 7400	ModBus® Direct
Intellis 7500	ModBus®
Intellis 7600	DeviceNet™
Intellis 7700	AS-interface® Ver. 2.1 / 3.0
Enclosures	
	Stainless Steel
	Engineered resin
	Aluminum

GENERAL APPLICATION

Intellis network control monitors use embedded control systems to automate valves and link field I/O to the host PLC or DCS. They incorporate all the features of standard Westlock control monitors with the addition of a network I/O module.

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NETWORK SYSTEMS FOR VALVE AUTOMATION

Intellis is a family of field network control monitors which use embedded control systems to automate valves and link field I/O to the host PLC or DCS. They incorporate all the features of our standard control monitors with the addition of a network I/O module.

Each network monitor houses two discrete Hall effect sensors for valve position monitoring, a low power solenoid valve for actuation control and a network interface module for communication via the chosen network protocol. Monitors are available for linear and rotary applications in all area classifications.

THE NETWORK MODULE

Each Intellis model contains a dedicated network module (Pac) that is integrated within its enclosure. A different Pac is factory-integrated depending upon the network protocol selected. The Pacs' modular design enables the simple conversion of units from one network protocol to another (with the sole exception of FOUNDATION Fieldbus™) in the field by authorized personnel, should the need arise.

Integrated network modules have protective diodes and optical isolation as standard. They are housed in general purpose, Division 2 Non-incendive or Explosionproof enclosures with a 16 point terminal block for simple wiring.

STANDARD NETWORK PROTOCOLS

The development of standard network protocols has made it possible to integrate process control components into a network effectively. ModBus®, DeviceNet™, AS-interface®, PROFIBUS and FOUNDATION Fieldbus™ are now the standards for interfacing discrete devices. They are proven to be extremely reliable, simple to understand and consistently cost-effective. They integrate simply with all major PLCs and DCS systems via off-the-shelf gateway interfaces.

ACCESSORIES

We are committed to making your network design, procurement and installation experience easier. To complement our wide array of network valve monitoring and control products, we offer a variety of accessories to meet your network connectivity and power requirements. From power supplies and cables to gateways and junctions, we've got what you need to get the job done efficiently.

SERVICES

We offer expert services for the design and installation of ASi®, DeviceNet™, ModBus®, PROFIBUS and FOUNDATION Fieldbus™ networks. This includes the specification of all equipment from the PLC or DCS down.

Network module

Gateway interface

Active network tee (ANT)

Junction box

Interconnects

Peripheral interface devices
- Cables
- Power supplies
- Gateways
- Repeaters
- Extenders
- Configuration tools
- Software/diagnostics
- Junction boxes

Application support
- Engineering design
- Integration
- Start-up support
- Training
- Turnkey installations

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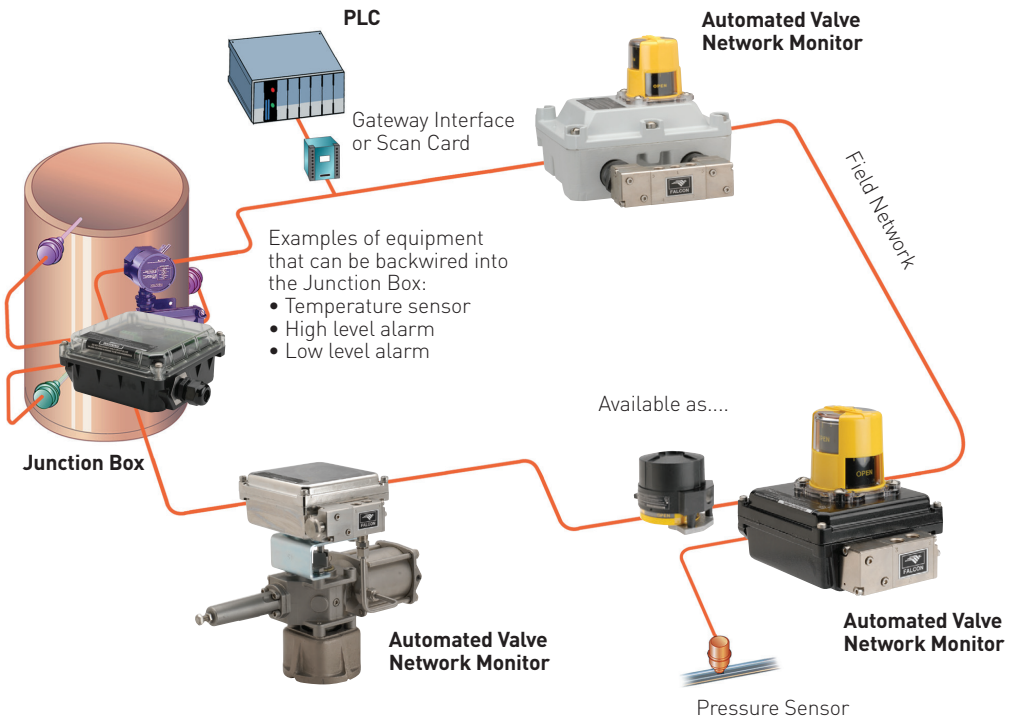
FIELD NETWORK

A field communications network comprises a specific number of network monitors interconnected by a common communications protocol. Network monitors may be placed on the field network in any physical order. Each monitor is assigned a unique address and accepts input/output signals from valve position sensors, solenoids and external devices.

Communication with a PLC, DCS or host computer is accomplished by a compatible gateway interface or scanner card.



AUTOMATED VALVE NETWORK MONITOR

The network monitor for automated valves couples directly onto the pneumatic or electric actuator. Each unit can accept input/output signals from position sensors and solenoid valves while simultaneously performing on-line diagnostics. In addition, each network monitor will interact with a comprehensive range of external field devices for control or alarm purposes.

EXTERNAL DEVICE NETWORK MONITOR

Network monitors are available for control or monitoring of non-valve related devices including sensors, alarms, actuators, indicating lights, etc. Depending on the protocol, each stand-alone network monitor is capable of accepting up to six external devices within the primary control network.

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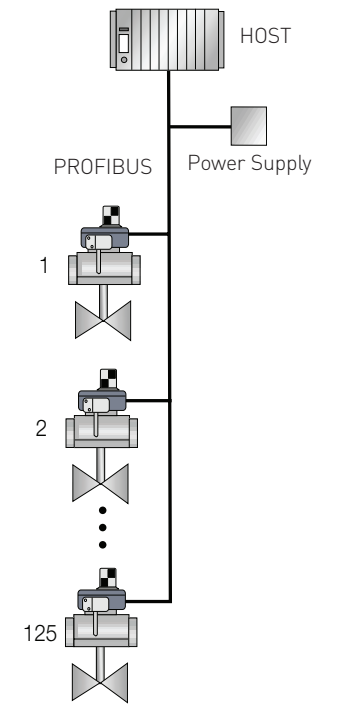
INTELLIS 7200 PROFIBUS

PROFIBUS (Process Field Bus) has been a standard for field bus communication in automation technology since it was first developed in 1989.

PROFIBUS

Physical media	Twisted pair for communications, two wires for power
Maximum distance	3960 ft. (1200 m) trunk
Maximum network monitors per system	32/segment; 126/system using repeaters
Maximum I/O points per system	1125/system
Current consumption per network monitor	120 mA
Interface capability	All PLCs and DCS supporting the PROFIBUS protocol
Communications method	Peer to peer and cyclic Master/slave
Error checking	CRC check
Network topology	Linear, prefered, drops allowed @ Baud rates below 500 kbps
Transmission speed	9.6, 19.2, 93.75, 187.5, 500, 1500, 12000 kbps
Redundancy	No
Valves specific diagnostics	Yes



NOTES

1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
2. See Hazardous area classification technical bulletin for further information on global standards.

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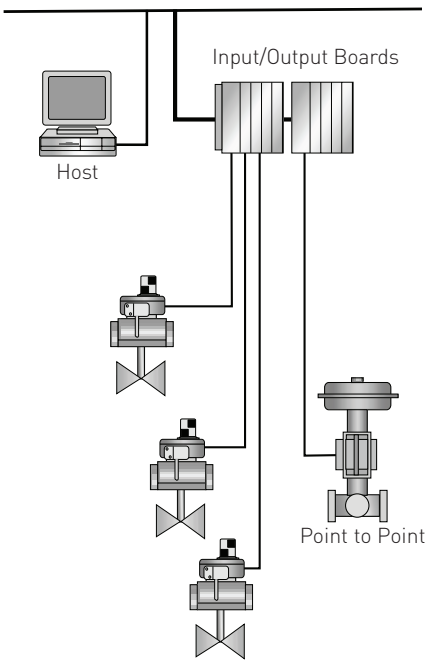
INTELLIS 7300 FOUNDATION FIELDBUS™

Foundation Fieldbus is an all-digital, serial two-way communications system that is an open architecture, developed and administered by the Fieldbus Foundation.

FOUNDATION FIELDBUS™	
Physical media	Two wire cable (communications and power)
Maximum distance	6720 ft. (1900 m) including spurs
Maximum network monitors per system	6/segment if bus powered & IS; 12/segment if bus powered & non-IS; 32/seg. if neither bus powered nor IS
Maximum I/O points per system	192/system
Current consumption per network monitor	18-24 mA IS
Interface capability	All PLCs and DCS supporting the FF protocol
Communications method	Peer to peer
Error checking	CRC check
Network topology	Daisy chain, trunk/drop (spurs), branching drop (spurs), point to point
Transmission speed	31.25 kbps
Redundancy	Yes
Valves specific diagnostics	Yes



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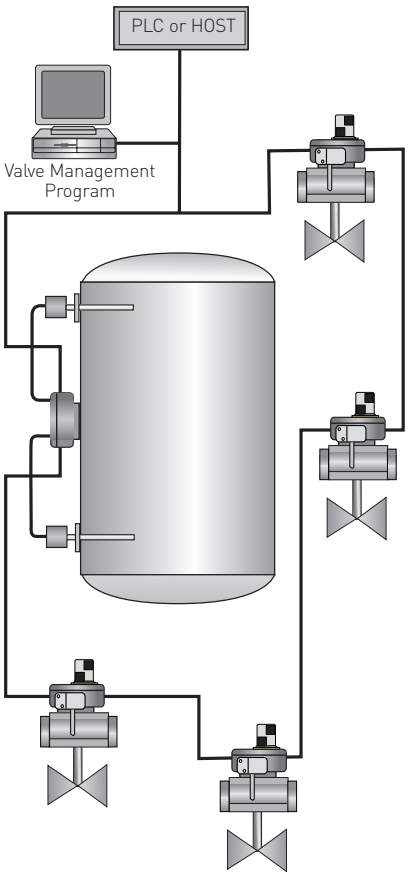
INTELLIS 7400 MODBUS® DIRECT

ModBus® Direct devices can be connected to any PLC or DCS with a ModBus® port.

MODBUS® DIRECT	
Physical media	Twisted pair for communications, two wires for power
Maximum distance	3000 ft. (909 m)
Maximum network monitors per system	127 per one ModBus master
Maximum I/O points per system	256/network plus optional 4/20mA analog I/O 256/system
Current consumption per network monitor	27 mA + 20-25 mA/coil
Interface capability	All PLCs and DCS with ModBus® port
Communications method	Master/slave with cyclic polling
Error checking	CRC check
Network topology	Zero drop
Transmission speed	9.6 kbps, 19.2 kbps
Redundancy	No
Valves specific diagnostics	Yes



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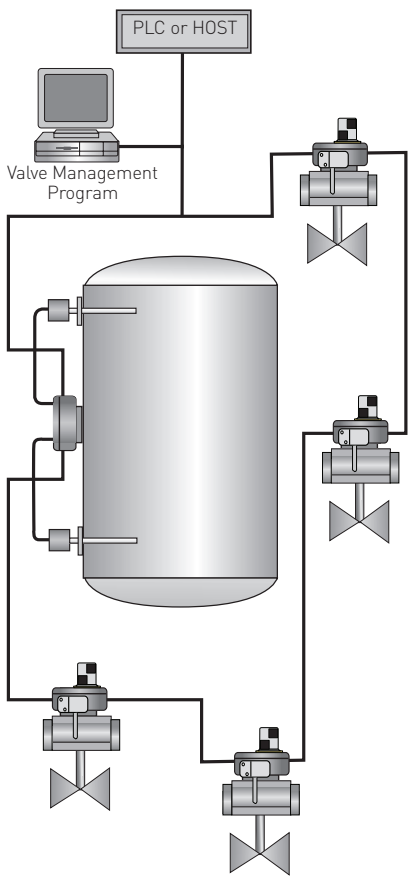
INTELLIS 7500 MODBUS®

The ModBus® protocol operates over a serial interface and is supported by almost every PLC, DCS and operator interface (OI) company.

MODBUS®	
Physical media	Twisted pair for communications, two wires for power
Maximum distance	3000 ft. (909 m)
Maximum network monitors per system	100/network; 10 networks/system
Maximum I/O points per system	800/network; 8000/system
Current consumption per network monitor	27 mA + 20-25 mA/coil
Interface capability	All PLCs and DCS with ModBus® port
Communications method	Master/slave with cyclic polling
Error checking	CRC check
Network topology	Closed loop bus
Transmission speed	9.6 kbps
Redundancy	Yes
Valves specific diagnostics	Yes



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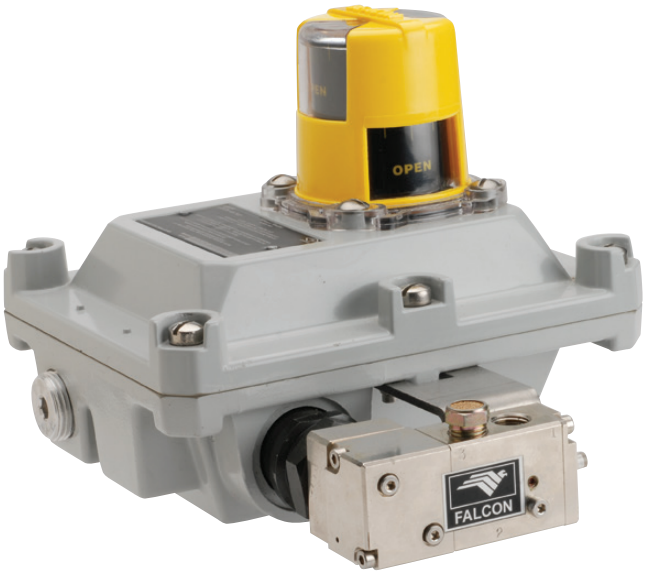
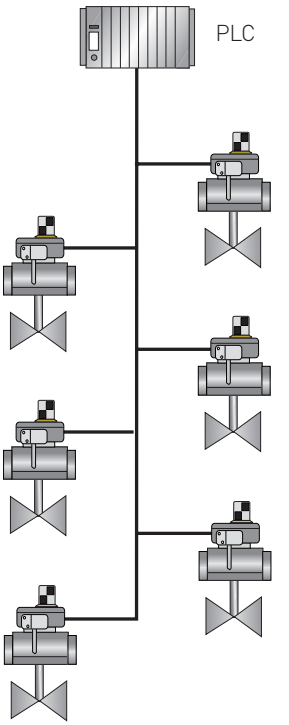


INTELLIS 7600 DEVICENET™

DeviceNet™ is an open device network standard based upon proven Controller Area Network (CAN) technology.

DEVICENET™	
Physical media	Twisted pair for communications, two wires for power
Maximum distance	1600 ft.(485 m) trunk + 512 ft. (155 m) drop
Maximum network monitors per system	63/network;
Maximum I/O points per system	378/network plus optional 4/20mA analog I/O 756/system
Current consumption per network monitor	45 mA + 20-25 mA/coil
Interface capability	All PLCs and DCS with DeviceNet™ Interface
Communications method	Master/slave multimaster, peer-to-peer
Error checking	CRC check
Network topology	Zero drop, trunk/drop, daisy chain, branch
Transmission speed	125 kbps, 250 kbps, 500 kbps
Redundancy	No
Valves specific diagnostics	Yes



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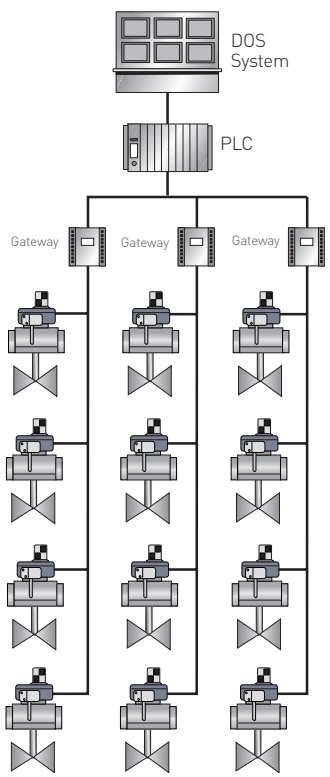
INTELLIS 7700 AS-INTERFACE® VER. 3.0

The AS-Interface® protocol was developed by a consortium of major European companies. Designed specifically for use in low level automated systems, AS-i can communicate via a gateway to most higher-level bus systems such as DeviceNet™, Modbus® and PROFIBUS.

AS-INTERFACE® VER. 3.0

Physical media	Two wire cable (communications and power)
Maximum distance	300 ft. (90.9m) 900 ft. (273 m) with repeater
Maximum network monitors per system	62/network with 2.1 Master ,1 network/system
Maximum I/O points per system	434/network, 434/system
Current consumption per network monitor	(2 in/2 out) 11 mA (power) - 59 mA (1 in/1 out)
Interface capability	All PLC's and DCS with ModBus®, DeviceNet™, PROFIBUS port
Communications method	Master/slave with cyclic polling
Error checking	Control sum, parity
Network topology	Trunk/drop, zero drop
Transmission speed	167 kbps
Redundancy	No
Valves specific diagnostics	No



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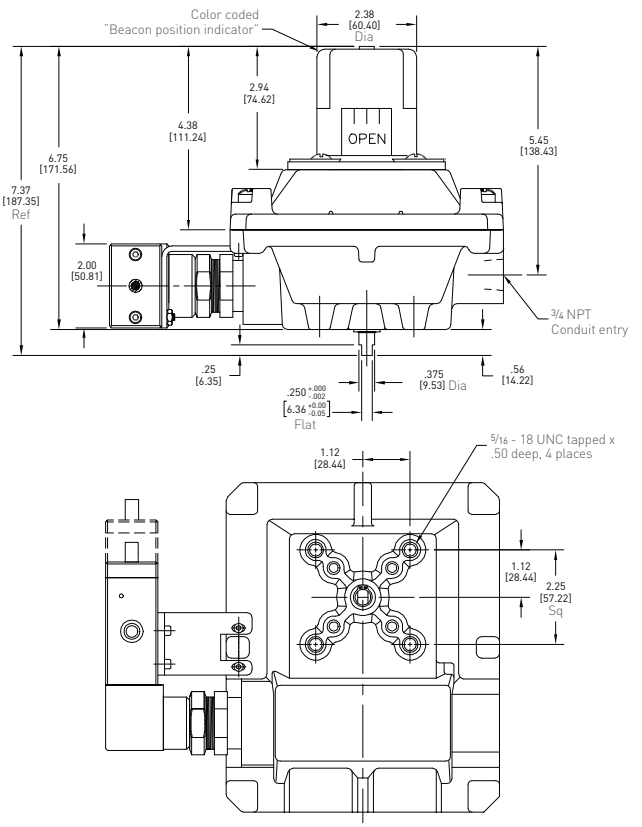
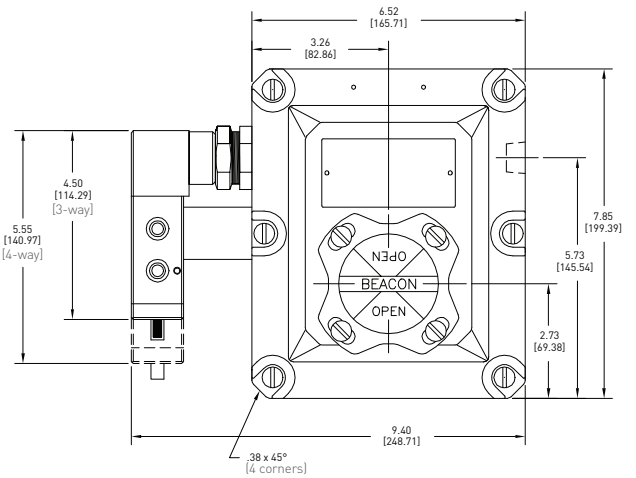
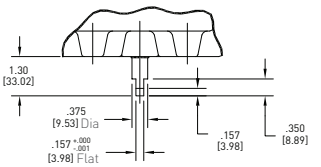




Top view



Optional NAMUR shaft

Dimensions in inches, where available metric dimension (mm) in parentheses

TECHNICAL SPECIFICATIONS

Materials of construction	
Enclosure	Aluminum with powder coat finish
Shaft and hardware	Stainless steel
Beacon visual indicator	Co-polyester
Bushing	Oil impregnated bronze
Drive shaft	
Standard	Double-D with ¼" A/F
Option	NAMUR standard VDI/VDE 3845

SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and C_v to best suit your application. See the Falcon data sheet for more information.

NOTES

1. Intellis control monitors are available with a choice of conduit entries. Please see the selection guide for standard entries
2. Please consult your sales office for any other requirements

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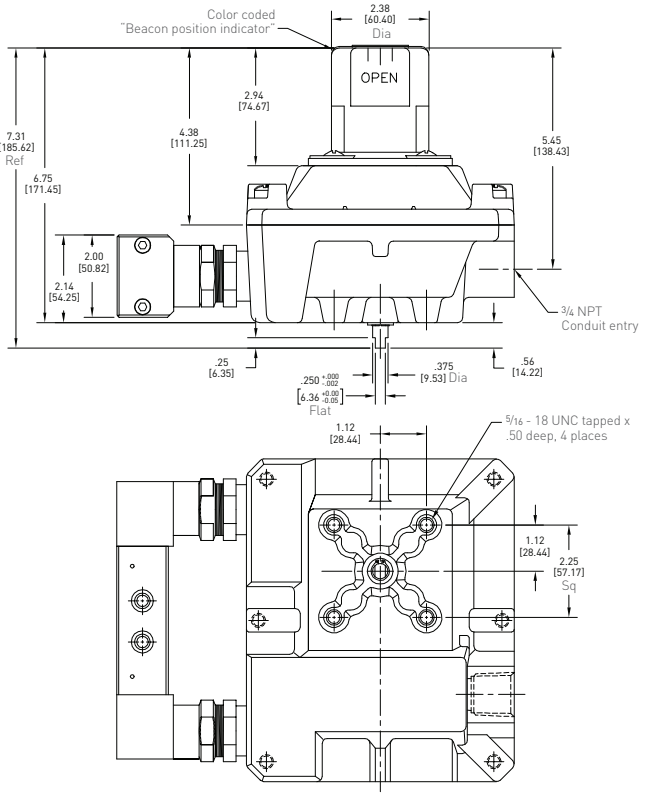

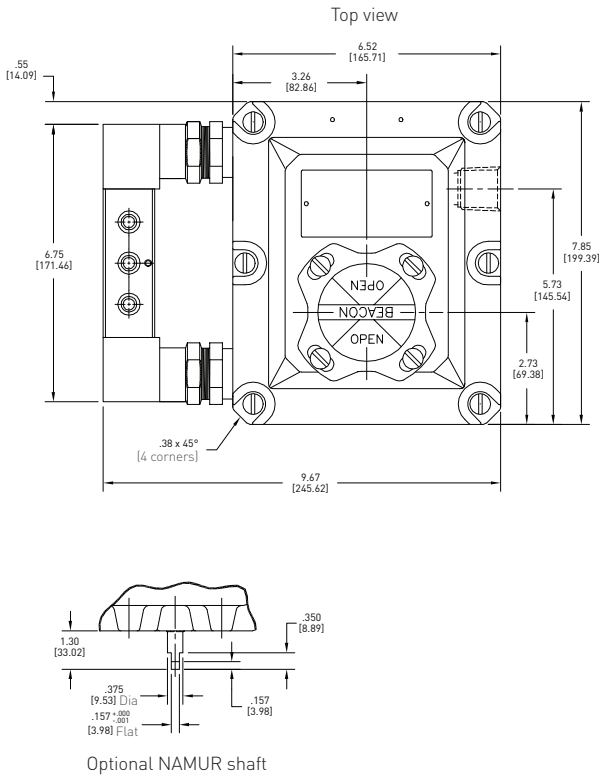

Optional NAMUR shaft

Dimensions in inches, where available metric dimension (mm) in parentheses

TECHNICAL SPECIFICATIONS

Materials of construction	
Enclosure	Aluminum with powder coat finish
Shaft and hardware	Stainless steel
Beacon visual indicator	Co-polyester
Bushing	Oil impregnated bronze
Drive shaft	
Standard	Double-D with ¼" A/F
Option	NAMUR standard VDI/VDE 3845

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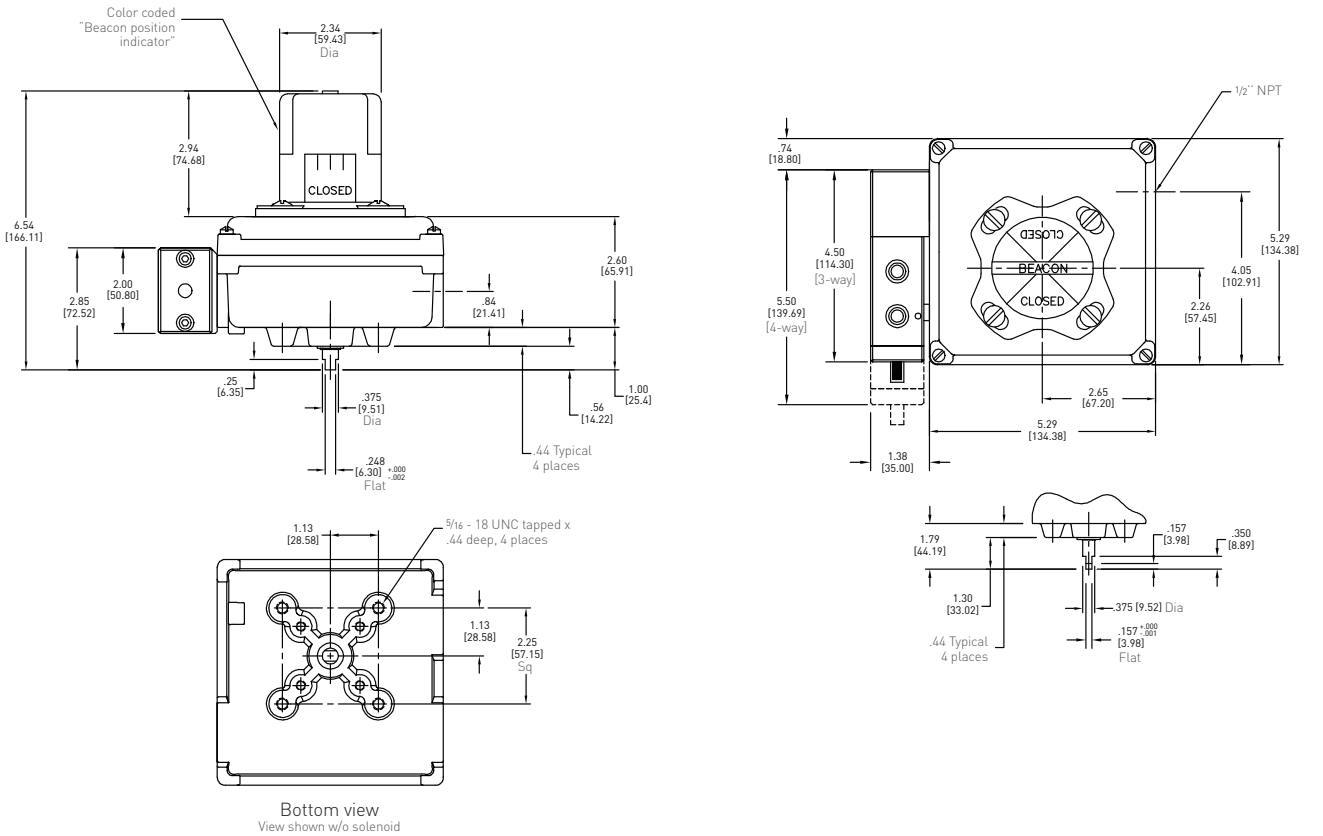

Dimensions in inches, where available metric dimension (mm) in parentheses

TECHNICAL SPECIFICATIONS

Materials of construction	
Enclosure	Aluminum with powder coat finish
Shaft and hardware	Stainless steel
Beacon visual indicator	Co-polyester
Bushing	Oil impregnated bronze
Drive shaft	
Standard	Double-D with ¼" A/F
Option	NAMUR standard VDI/VDE 3845

SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and C_V to best suit your application. See the Falcon data sheet for more information.

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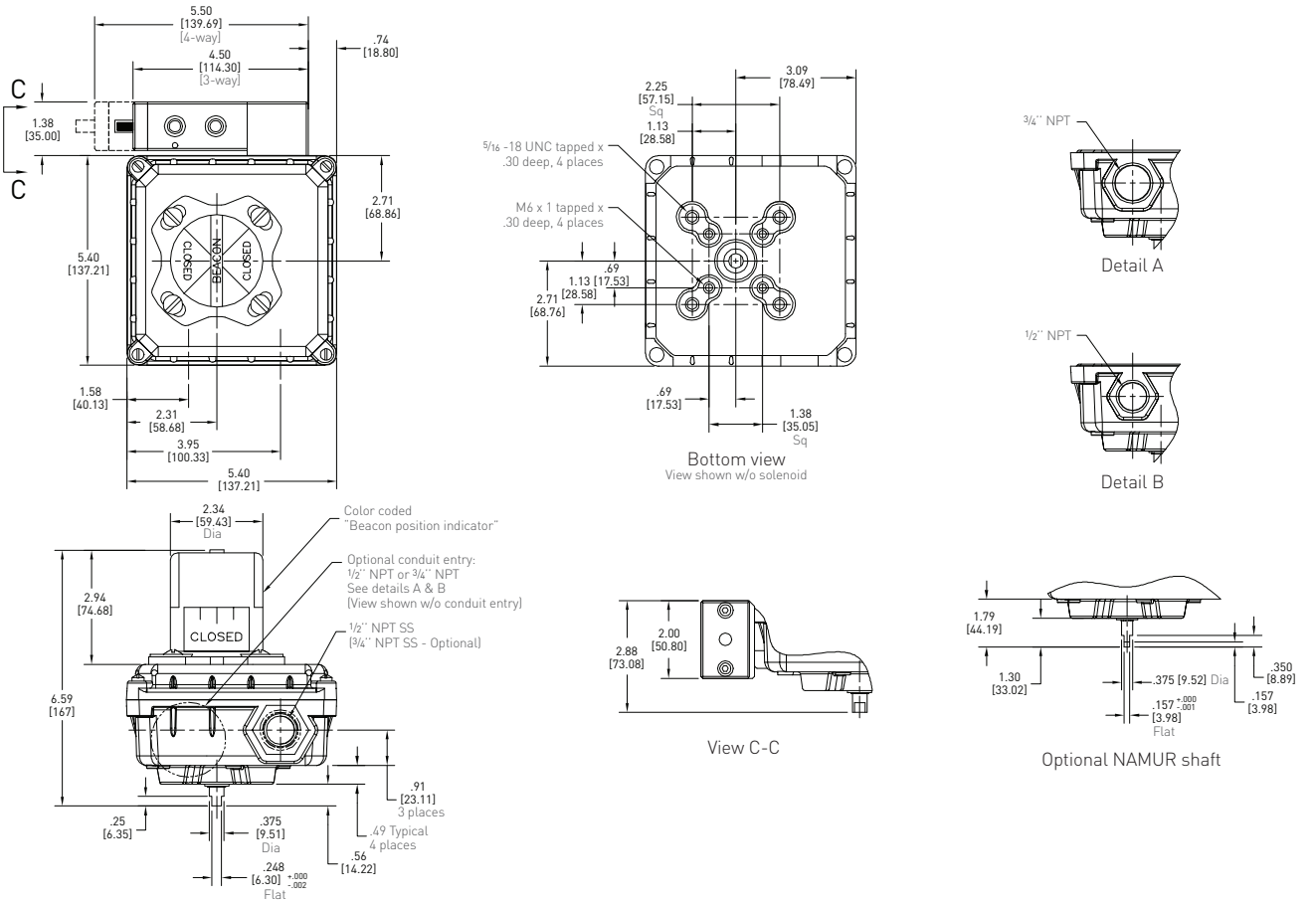

Dimensions in inches, where available metric dimension (mm) in parentheses

TECHNICAL SPECIFICATIONS

Materials of construction	
Enclosure	Engineered polyamide resin
Shaft and hardware	Stainless steel
Beacon visual indicator	Co-polyester
Bushing	Nylon
Drive shaft	
Standard	Double-D with ¼" A/F
Option	NAMUR standard VDI/VDE 3845

SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and C_V to best suit your application. See the Falcon data sheet for more information.

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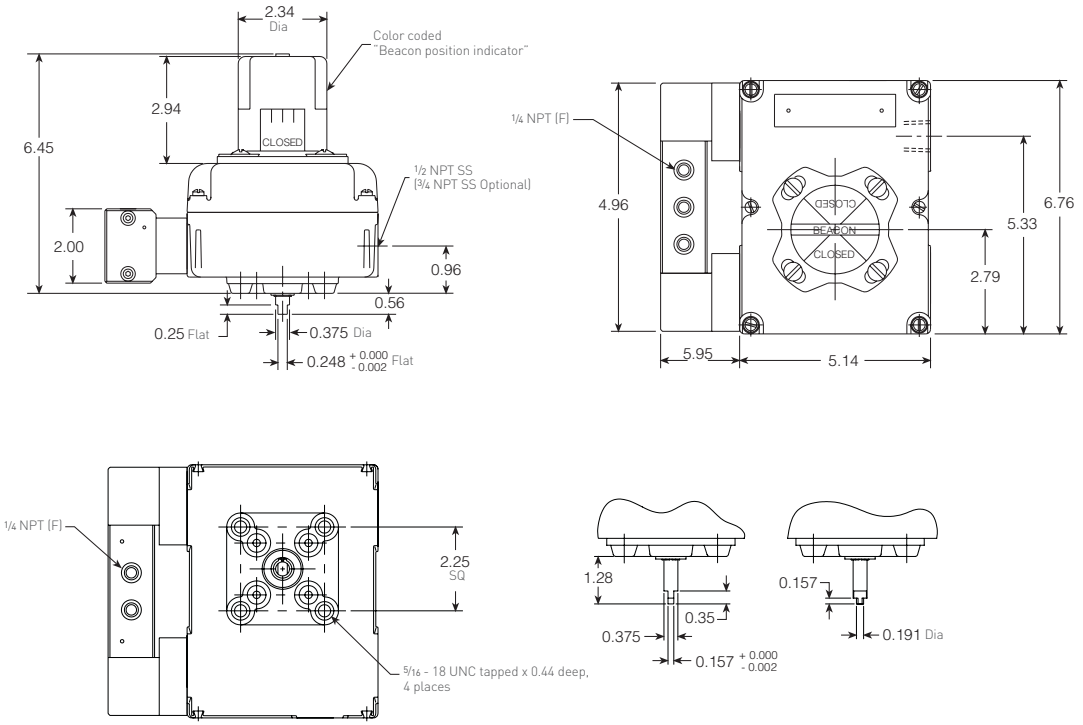

Dimensions in inches, where available metric dimension (mm) in parentheses

TECHNICAL SPECIFICATIONS

Materials of construction	
Enclosure	Engineered polyamide resin
Shaft and hardware	Stainless steel
Beacon visual indicator	Co-polyester
Bushing	Nylon
Drive shaft	
Standard	Double-D with ¼" A/F
Option	NAMUR standard VDI/VDE 3845

SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and C_v to best suit your application. See the Falcon data sheet for more information.

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Network protocol

72	PROFIBUS-DP
74	Modbus® Direct
75	Modbus®
76	DeviceNet™
77	AS-interface - Specification 2.1 / 3.0 **(For AS-i Specification 2.0 contact factory)**

Enclosure

75	Aluminum enclosure **(For dual coil)**
79	Aluminum enclosure

Shaft output

S	Standard (Double-D with ¼" Flats)
D	Direct mount
N	NAMUR
0	None

Beacon type and color

BY	BM2-Y (Standard)
RG	BM2-RG (Red Closed/Green Open)
FE	BM2-Y-FE (French/English)
B1	BM3-1
B3	BM3-3
B5	BM3-5
B7	BM3-7
B9	BM3-9
LP	BM2-Y-LP (Low Profile Standard)
FC	Flat cover

Conduit

1B	One ¾" NPT (F) with gland fitting
2B	Two ¾" NPT (F) **(Required for Daisy Chain Topology on Network Protocol 76 and 77)**

Position switches

2HEM	2 inputs / 2 outputs MiniPAC **(Only available for 76 Network protocol)**
2HES	4 inputs / 2 outputs PAC

On/off junction enclosure

00	None
01	On/off junction enclosure

Coil voltage

0	None
X	24 VDC (XP coil)

Falcon V Valve Body

2V3	1.4 C_v, 3-way, brass
3V3	1.4 C_v, 3-way, aluminum
5V3	1.4 C_v, 3-way, 316 SS
2VY	1.4Cv, Dual Coil, Brass **(Only Available with Enclosure 75)**
5VY	1.4Cv, Dual Coil, 316 SS **(Only Available with Enclosure 75)**
2V7	1.4Cv, 4-Way, Brass
3V7	1.4Cv, 4-Way, Aluminum
5V7	1.4Cv, 4-Way, 316 SS
3VY	1.4Cv, Dual Coil, Aluminum **(Only Available with Enclosure 75)**
540	3.5Cv, 3-Way, 316 SS**
580	3.5Cv, 4-Way, 316 SS**
3V4	4.3Cv, 3-Way, Aluminum
3V8	4.3Cv, 4-Way, Aluminum
3VZ	4.3Cv, Dual Coil, Aluminum **(Only Available with Enclosure 75)**

Valve Options

0	None
M	Momentary over-ride*
L	Locking over-ride*
R	Manual Reset **(Not available on 4.3Cv aluminum valves)**
N	Manual Reset with Latch **(Not available on 4.3Cv aluminum valves)**
E	External Pilot* **(Required for operating pressures below 45 psi)**

77	**75**	**N**	**BY**	**1B**	**2HES**	**01**	**X**	**5VY**	**L**	= Model number **7775NBY1B2HES01X5VYL**

*Options M, L, E, are not available with option 540 and 580 Falcon V Bodies

**540 Valves are 580 Valves with ports 2 and 3 plugged at the factory for 3 way functionality

WESTLOCK CONTROLS

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Network protocol

72	PROFIBUS-DP
74	Modbus® Direct
75	Modbus®
76	DeviceNet™
77	AS-interface® - Specification 2.1 / 3.0 **(For AS-i Specification 2.0 contact factory)**

Enclosure

04	Aluminum enclosure
44	Engineered resin enclosure
45	Engineered resin enclosure (for dual coil)

Shaft output

S	Standard (Double-D with ¼" Flats)
D	Direct mount to Keystone F89 actuators
N	NAMUR
0	None

Beacon

BY	BM2-Y (Standard)
RG	BM2-RG (Red Closed/Green Open)
FE	BM2-Y-FE (French/English)
B1	BM3-1
B3	BM3-3
B5	BM3-5
B7	BM3-7
B9	BM3-9
LP	BM2-Y-LP (Low Profile Standard)
FC	Flat cover

Conduit

1A	One ½" NPT (F) with gland fitting
1B	One ¾" NPT (F) with gland fitting
2A	Two ½" NPT (F) with Gland fitting **(Standard without Falcon/Solenoid)** **(Required for Daisy Chain Topolog on Network Protocol 76 and 77)**
1M	One ½" NPT fitted with mini-connector
1U	One ½" NPT fitted with micro-(Euro) connector
2M	One ½" NPT fitted with Mini-connector and One extra ½" NPT (F) with Gland fitting
2U	One ½" NPT fitted with Micro (Euro)-connector and One extra ½" NPT (F) with Gland fitting

Position switches

2HEM	2 inputs / 2 outputs MiniPAC **(Only available for 76 Network protocols)**
2HES	4 inputs / 2 outputs PAC

On/off junction enclosure

00	None

Coil voltage

0	None
D	24 VDC - standard

Falcon V Valve Body

000	None
2V3	1.4 C_v, 3-way, brass
3V3	1.4 C_v, 3-way, aluminum
5V3	1.4 C_v, 3-way, 316 SS
2VY	1.4Cv, Dual Coil, Brass **(Only Available with Enclosure 45)**
5VY	1.4Cv, Dual Coil, 316 SS **(Only Available with Enclosure 45)**
2V7	1.4Cv, 4-Way, Brass
3V7	1.4Cv, 4-Way, Aluminum
5V7	1.4Cv, 4-Way, 316 SS
3VY	1.4Cv, Dual Coil, Aluminum **(Only Available with Enclosure 45)**
540	3.5Cv, 3-Way, 316 SS**
580	3.5Cv, 4-Way, 316 SS**
3V4	4.3Cv, 3-Way, Aluminum
3V8	4.3Cv, 4-Way, Aluminum
3VZ	4.3Cv, Dual Coil, Aluminum **(Only Available with Enclosure 45)**

Valve Options

0	None
X	Low Temperature Seals*
M	Momentary over-ride*
L	Locking over-ride*
R	Manual Reset **(Not available on 4.3Cv aluminum valves)**
N	Manual Reset with Latch **(Not available on 4.3Cv aluminum valves)**
E	External Pilot* **(Required for operating pressures below 45 psi)**

Unit Specialty Codes (leave blank for standard builds)

00124	316 Stainless Steel Enclosure **(Available for enclosures 04 and 45)**

76	**44**	**N**	**BY**	**1A**	**2HEM**	**00**	**D**	**5V3**	**0**	**00124**	= Model number **7644NBY1A2HEM00D5V3000124**

*Options X, M, L, E, are not available with option 540 and 580 Falcon V Bodies

**540 Valves are 580 Valves with ports 2 and 3 plugged at the factory for 3 way functionality

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Network protocol

73 Foundation Fieldbus - FF ITK 6 **(For an older specification contact sales representative)**

Enclosure

04 Aluminum enclosure
44 Engineered resin enclosure **Note: Enclosure options available in 316 stainless steel, please consult sales representative.**
45 Engineered resin enclosure (For dual coil)

Shaft output

S Standard (Double-D with ¼" Flats)
D Direct mount to Keystone F89 actuators
N NAMUR
0 None

Beacon

BY BM2-Y (Standard)
RG BM2-RG (Red Closed/Green Open)
FE BM2-Y-FE (French/English)
B1 BM3-1
B3 BM3-3
B5 BM3-5
B7 BM3-7
B9 BM3-9
FC Flat cover
LP BM2-Y-LP (Low Profile Standard)

Conduit

1A One ½" NPT (F) with Gland fitting
1B One ¾" NPT (F) with Gland fitting
2A Two ½" NPT (F) with Gland fitting **(Standard without Falcon/Solenoid)**
1M One ½" NPT fitted with mini-connector
1U One ½" NPT fitted with micro-(Euro) connector
2M One ½" NPT fitted with Mini-connector and One extra ½" NPT (F) with Gland fitting
2U One ½" NPT fitted with Micro (Euro)-connector and One extra ½" NPT (F) with Gland fitting

Position switches

2HEK 4 inputs/ 2 outputs **(Only for FF Protocol version ITK 6)**

On/off junction enclosure

00 None

Coil voltage (Adders must be doubled for Dual coil)

0 None
F Low Power Fieldbus Piezo Coil
I Low Power Fieldbus Valve Transducer **(Non-Incendive, Div. 2 Rating only)**

Falcon V Valve Body

000 None
2V3 1.4 C_v, 3-way, brass
3V3 1.4 C_v, 3-way, aluminum
5V3 1.4 C_v, 3-way, 316 SS
2VY 1.4Cv, Dual Coil, Brass
5VY 1.4Cv, Dual Coil, 316 SS
2V7 1.4Cv, 4-Way, Brass
3V7 1.4Cv, 4-Way, Aluminum
5V7 1.4Cv, 4-Way, 316 SS
3VY 1.4Cv, Dual Coil, Aluminum
540 3.5Cv, 3-Way, 316 SS** **(only available with coil F)**
580 3.5Cv, 4-Way, 316 SS** **(only available with coil F)**
3V4 4.3Cv, 3-Way, Aluminum
3V8 4.3Cv, 4-Way, Aluminum
3VZ 4.3Cv, Dual Coil, Aluminum

Valve Options

0 None
X Low Temperature Seals* **(Only available with Coil Option I)**
M Momentary over-ride*
L Locking over-ride*
R Manual Reset **(Not available on 4.3Cv aluminum valves)**
N Manual Reset with Latch **(Not available on 4.3Cv aluminum valves)**
E External Pilot* **(Required for operating pressures below 45 psi)**

Unit Specialty Codes (leave blank for standard builds)

00124 316 Stainless Steel Enclosure **(Only available for enclosures 04 and 45)**

73	44	N	BY	1U	2HEK	00	F	5V3	X	00124	= Model number **7344NBY1U2HEK00F5V3000124**

*Options X, M, L, E, are not available with option 540 and 580 Falcon V Bodies

**540 Valves are 580 Valves with ports 2 and 3 plugged at the factory for 3 way functionality

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