

QUANTUM™ ROTARY CONTROL MONITORS

EXPLOSIONPROOF - NEC

Low power single or dual-coil rotary control monitors certified Explosionproof for use in hazardous areas. They are available with a broad range of integrated switching and Falcon solenoid valve options



TECHNICAL DATA

Agency approvals

Area classification (NEC 500)

Models 777/877

Class I, Div 1, Groups C, D, T6, Ta = 60°C

Non-incendive Class I, Div 2, Groups A, B, C, D, T6,

Ta = 60°C

Class II & III, Div 1, Groups E, F & G

Class I, Div 1, Groups *A, *B, C, D, T5, Ta = -50°C to 60°C

Class II & III Div 1 Groups E, F, G, T5, Ta = -50°C to 60°C Non-incendive Class I, Div 2, Groups A, B, C, D, T5,

Ta = -50°C to 60°C

Enclosure standards (ANSI/NEMA 250)

All enclosures

Switches

Models 360/366

Type 4, 4X, 6P

Mechanical switches, SPDT and DPDT

Magnum SPDT (hermetically sealed proximity type)

switches

MagPAC bifurcated Switch pack

Enclosures

Models 777/877/360 Aluminum

Model 366 Stainless steel

Falcon solenoid valves

C_v Materials

Brass, aluminum and stainless steel

Choice of 1.4 and 4.3

FEATURES

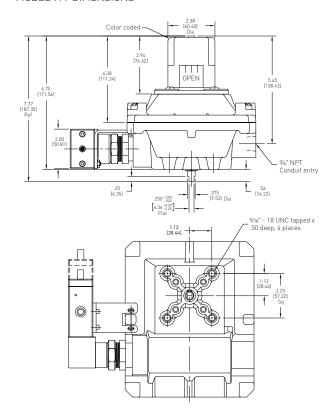
- Quantum enclosures integrate position sensors and low power solenoid valves into a single unit.
- Solenoid coils integrated within Quantum housing.
- Choice of factory pre-wired 3 and 4 way Falcon solenoid valves.
- Solenoid valves with a choice of C_v ratings and coil voltage.
- Strong durable Beacon™ offers 360° visual indication available in a choice of styles and colors.
- Touch set cams are hand adjustable, spring loaded and self-locking providing quick calibration of position switches and sensors.
- Terminal strips are pre-wired and numbered with generous working space for ease of use.
- Additional conduit for easy field wiring and mounting accessories as standard.
- Standardized mounting pattern for easy adaptation to common bracketry.
- NAMUR shaft output compliant to VDI/VDE 3845 available.
- Aluminum enclosures with ultra-low copper content (0.2% maximum) ensure robust performance in corrosive environments.
- Rugged stainless steel enclosure.

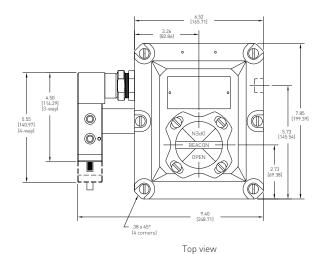
GENERAL APPLICATION

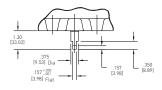
Quantum control monitors combine consistent and accurate valve monitoring with the control of automation process valves using integrated position sensors and low power solenoid valves in a single compact unit.

^{*} De-rated to Group C and D when used with a solenoid valve

MODEL 777 DIMENSIONS







NAMUR shaft details

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				
Bushing	Oil impregnated bronze				
Beacon visual indicator	Co-polyester				
Drive shaft					
Westlock standard	Double-D with 1/4" A/F				
NAMUR standard	NAMUR standard VDI/VDE 3845				
Available switches					
	V3 mechanical switches, SPDT				
	DPDT mechanical switches				
	Magnum, SPDT hermetically sealed magnetic proximity				
	switches, with tungsten contacts				
	Magnum, SPDT hermetically sealed magnetic proximity				
	switches, with rhodium contacts				
	MagPAC Switch pack, SPST normally open bifurcated				
	switches with LED indication				

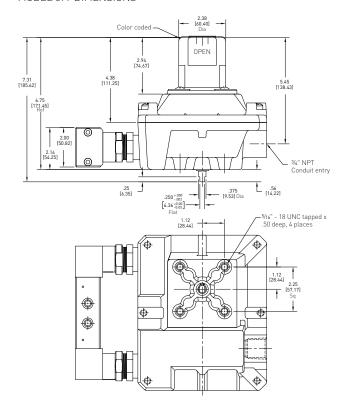
SOLENOID VALVES

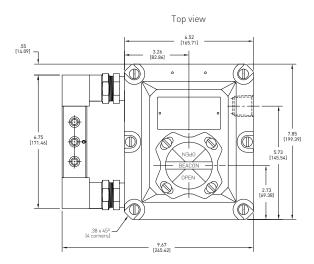
The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and $C_{\rm V}$ to best suit your application. See the Falcon data sheet for more information.

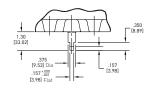
- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- $3. \ \mbox{Please}$ consult your sales office for any other requirements



MODEL 877 DIMENSIONS







NAMUR shaft detail

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

TECHNICAL SPECIFICATIONS

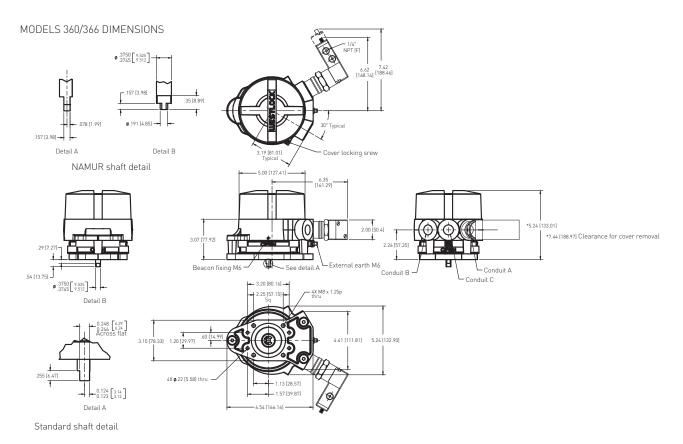
Materials of construction	
Enclosure	Aluminum with powder coat finish
Shaft and hardware	Stainless steel
Bushing	Oil impregnated bronze
Beacon visual indicator	Co-polyester
Drive shaft	
Westlock standard	Double-D with 1/4" A/F
NAMUR standard	NAMUR standard VDI/VDE 3845
Available switches	
	V3 mechanical switches, SPDT
	DPDT mechanical switches
	Magnum, SPDT hermetically sealed magnetic proximity switches,
	with tungsten contacts
	Magnum, SPDT hermetically sealed magnetic proximity switches,
	with rhodium contacts
	MagPAC Switch pack, SPST normally open bifurcated switches
	with LED indication

SOLENOID VALVES

The Falcon range of solenoid valves allows you to choose the material, voltage, number of ports, number of coils and $C_{\rm V}$ to best suit your application. See the Falcon data sheet for more information.

- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- 3. Please consult your sales office for any other requirements





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

TECHNICAL SPECIFICATIONS

Materials of construction				
Enclosure				
Model 360	Aluminum with powder coat finish			
Model 366	Stainless steel with electropolished finish			
Shaft and hardware	Stainless steel			
Bushing	Oil impregnated bronze			
Beacon visual indicator	Co-polyester			
Drive shaft				
Westlock standard	Double-D with 1/4" A/F			
NAMUR standard	NAMUR standard VDI/VDE 3845			
Available switches				
	V3 mechanical switches, SPDT			
	DPDT mechanical switches			
	Magnum, SPDT hermetically sealed magnetic proximity switches,			
	with tungsten contacts			
	Magnum, SPDT hermetically sealed magnetic proximity switches, with rhodium contacts			

NOTES

- 1. See selection guide for standard conduit entries
- 2. See switches & sensors data sheet for further information
- 3. Please consult your sales office for any other requirements

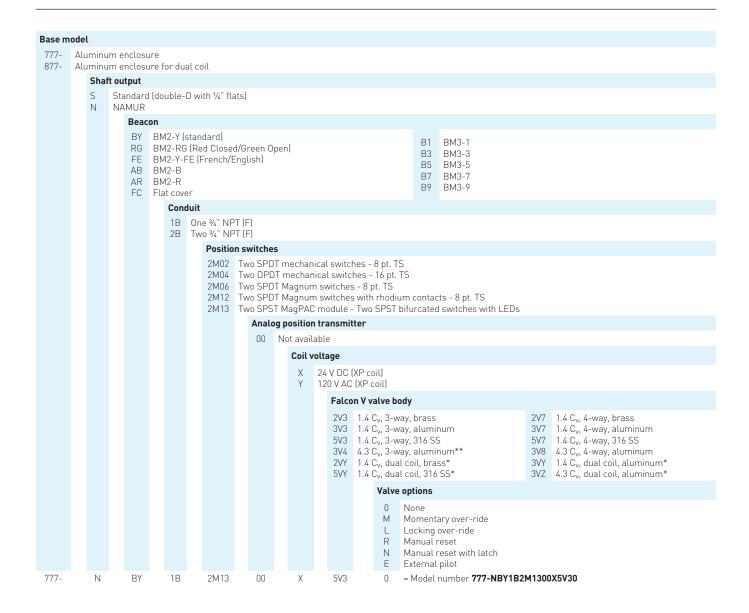
SOLENOID VALVES

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



QUANTUM™ EXPLOSIONPROOF ROTARY CONTROL MONITORS

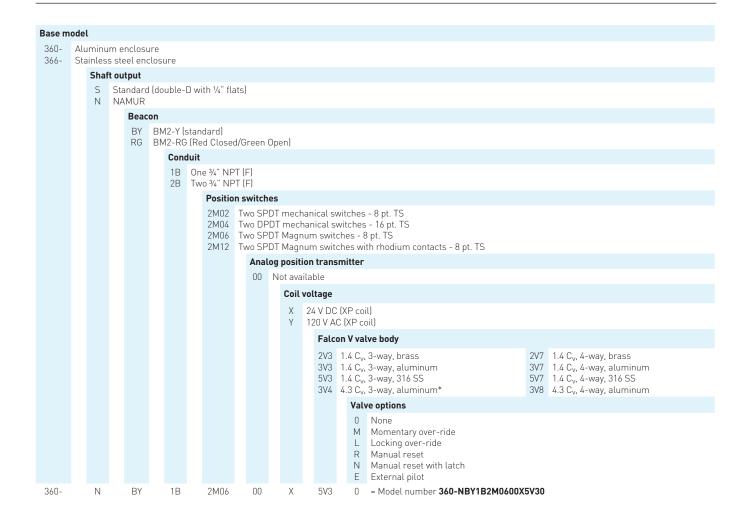
MODELS 777/877 SELECTION GUIDE



- Dual coil valve body options only available with base model 877.
- ** 3V4 valves are 3V8 valves with ports 2 & 3 plugged at the factory for 3 way functionality.
- 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.

QUANTUM™ EXPLOSIONPROOF ROTARY CONTROL MONITORS

MODELS 360/366 SELECTION GUIDE



- st 3V4 valves are 3V8 valves with ports 2 st 3 plugged at the factory for 3 way functionality.
- 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.

QUANTUM™ EXPL	OSIONPROOF	ROTARY CC	INTROL MOI	NITORS	



 $\textbf{Westlock.} \ \text{We reserve the right to change designs and specifications without notice.}$