V200 Positioner

Housing Material: Cast aluminium with polyester coating

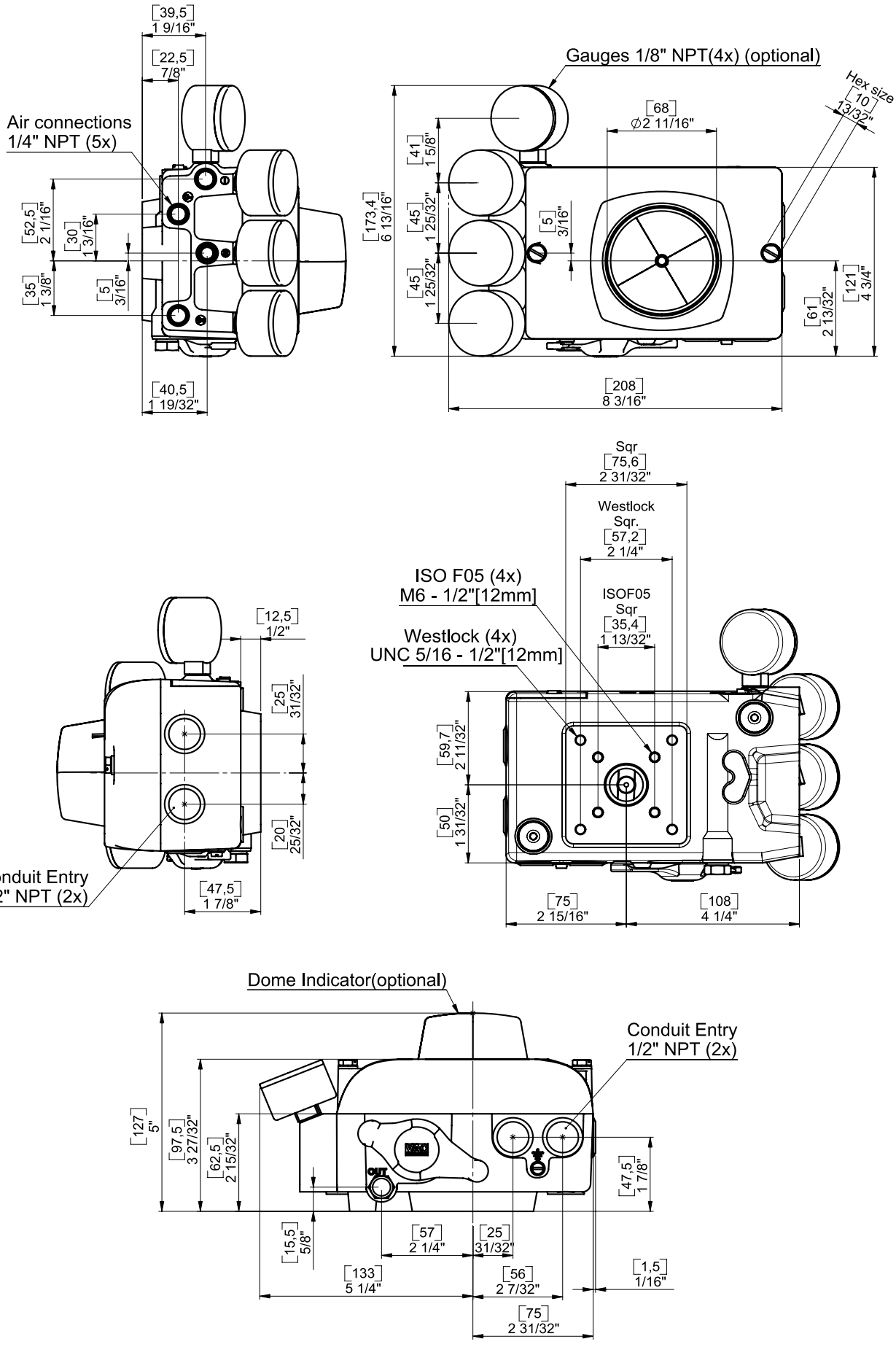
Indicator Options: Flat pointed indicator or raised indicator (red/green or yellow/black)

- One housing for pneumatic or electropneumatic
- Optional gauges
- Optional range spring
- Variety of cams available
- Variety of spindles available
- External zero + span adjustment without removing the cover
- Five pilot options
- Explosion-proof, gas approved, fail-freeze, 0-5 VDC and 0-10 VDC options available
- Variety of feedback options

V200 P Pneumatic Positioner	
Input Range:	3-15 PSI
Supply Pressure	20-145 PSI
Linearity Error:	<0.7 f.s.
Hysteresis:	<0.4 f.s.
Repeatability:	<0.3 f.s.
Pressure Gain @87 PSI: (acc. to ISA S75.13)	240:1
Air Delivery @87 PSI:	28.3 SCFM
Air Consumption @87 PSI:	0.20 SCFM
Temperature Range:	-40°F to 185°F
Air Connections:	1/4" NPT / G Threads
Gauge Port:	1/8" NPT / G Threads
Ingress & Corrosion Protection	Nema 4X and IP 66

V200 E Electropneumatic Positioner	
Input Range:	4-20 mA (Ri<170 ohms)
Supply Pressure	20-145 PSI
Linearity Error:	<1% f.s.
Hysteresis:	<0.6% f.s.
Repeatability:	<0.5% f.s.
Pressure Gain @87 PSI: (acc. to ISA S75.13)	240:1
Air Delivery @87 PSI:	28.3 SCFM
Air Consumption @87 PSI:	0.20 SCFM
Temperature Range:	-40°F to 185°F
Air Connections:	1/4" NPT / G Threads
Gauge Port:	1/8" NPT / G Threads
Cable Entry:	1/2" NPT, M20x1.5 or PG 13.5
Ingress & Corrosion Protection:	Nema 4X and IP 66

V200 Positioner Dimensions

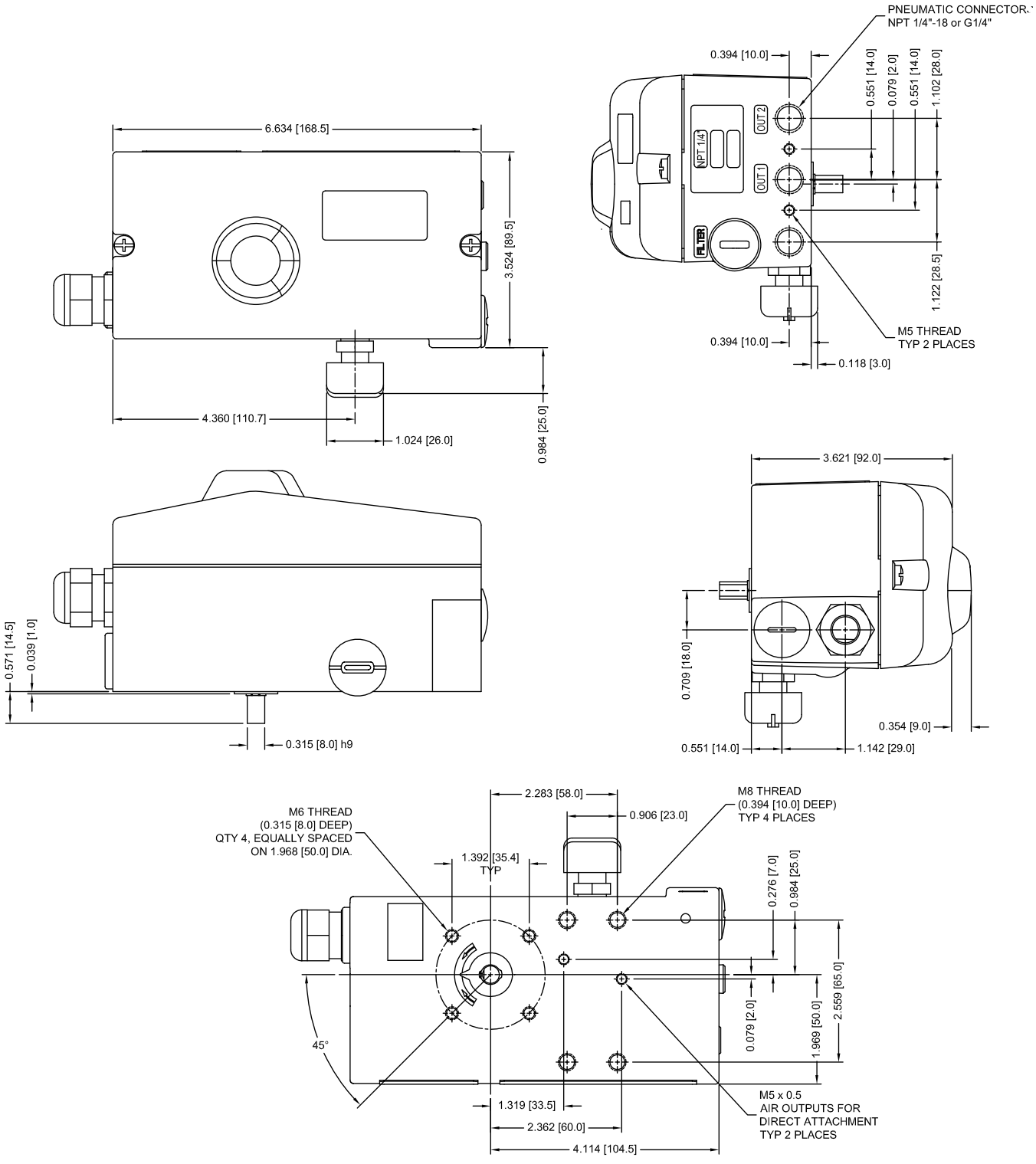


D400 Digital Positioner

- Microprocessor based valve positioner
- Menu driven programming with LCD display - multilingual
- Local push button configuration
- Low air consumption
- Explosion-proof & intrinsically safe modes available
- Modular design - available with position feedback, micro switches and fail freeze options, rotary or linear mounting
- NEMA 4X IP 65 enclosure, aluminum housing, electrostatically dipped varnish with stove-hardened epoxy resin
- Adaptive control feature offers the ability to update automation package without resetting the process
- Linear mounting possible
- ATEX - FM • CSA • IEC • Ex approvals available
- Available with Foundation Fieldbus, Profi-Bus and Hart Protocols

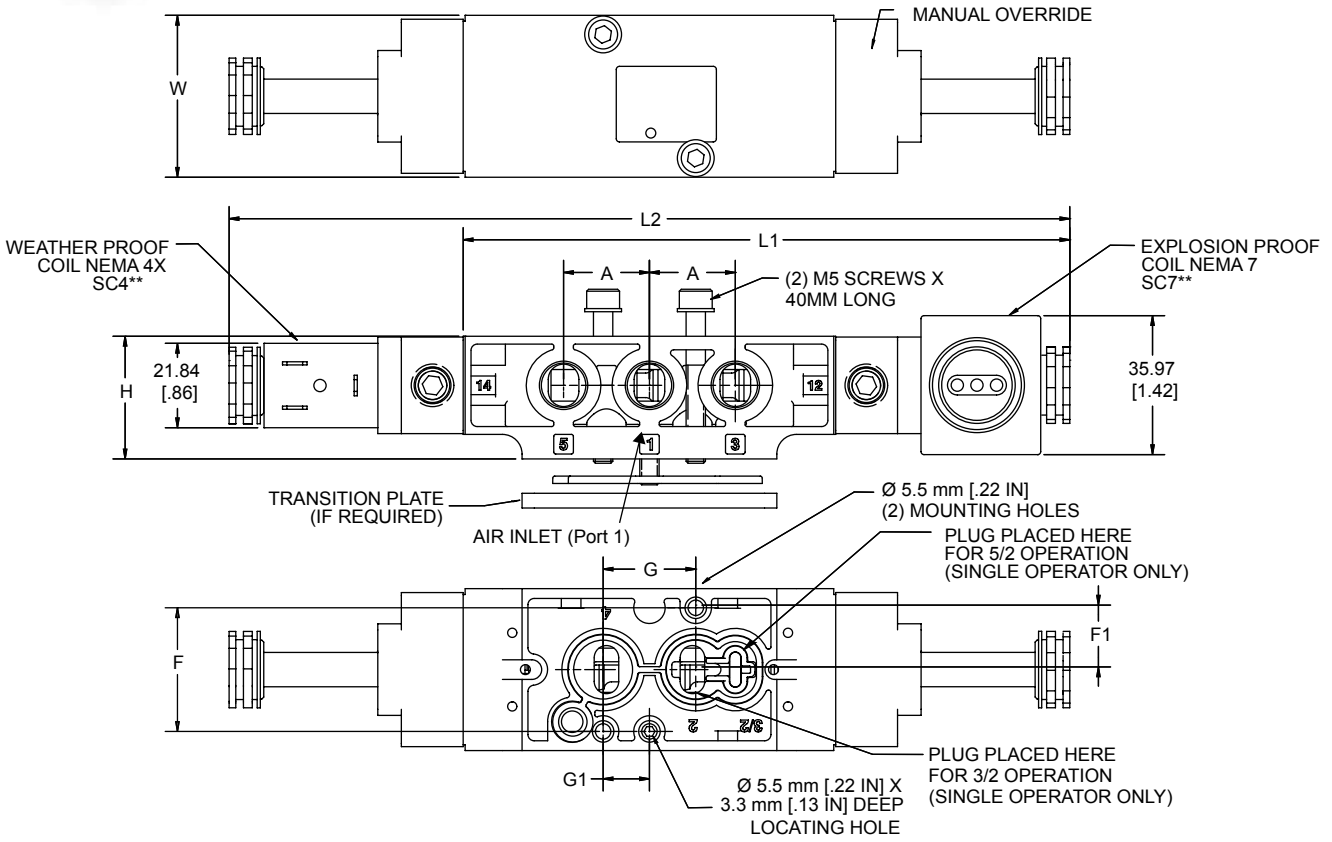
D400 Digital Positioner	
Rotation:	25 - 120 Degrees
Max Air Supply:	90 PSI
Air Delivery:	6.0 SCFM @ 90 PSI
Air Consumption:	≤ 0.015 SCFM
Stroke:	0.4 to 4"
Connections:	1/4" NPT air, 1/2" NPT Cable
Ambient Temperature:	-40° F to 185° F
Charateristic Curves:	Linear, equal %, 1:25, 1:50, 25:1, 50:1, or user configurable
Characteristic deviation:	≤ 0.5%
Deadband:	0.1%, adjustable to 10%
Resolution (A/D) Conversion):	16,000 steps
Sample Rate:	20 msec
Seismic Vibration:	Meets requirements to DIN IEC 68-3-3 Class III for strong and strongest earthquakes
Mechanical Vibration:	≤ 1% up to 10g and 10...80 Hz
Mounting orientation:	≤ 0.5% at 90° Change
EMI:	Complies with EMC directive 89/336/EEC as of May 1989 (Increased EMI Shielding to EN 50082-2 PR as of 11/93)

D400 Digital Positioner Dimensions



Solenoids

- Aluminum body
- NBR seals
- Manual override
- High flow: 1.8 CV
- 1/2″ conduit connection to coil
- 1/4″ port size
- Body can be converted between 5/2 (double acting) and 3/2 (spring return)
- Coils and flange tubes are rated to CSA/UL
- Same body accepts NEMA 4, NEMA 7, and ATEX coils
- Voltage options available upon request



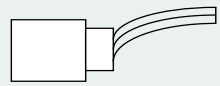
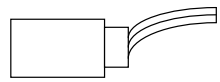
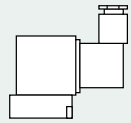
Setup	Unit	A	C	F	F1	G	G1	H	L1	L2	W
Single	in	0.88	0.75	1.25	0.63	0.94	0.47	1.25	6.15	-	1.65
	mm	22.2	19.1	32.0	16.0	23.9	11.9	31.7	157		41.9
Double	in	0.88	0.75	1.25	0.63	0.94	0.47	1.25	-	8.55	1.65
	mm	22.2	19.1	32.0	16.0	23.9	11.9	31.7		217	41.9

Connectors (Not polarity dependent)

DIN 43650 Industrial Form B						
	Maximum Cable Diameter: 9mm (0.35″)					
Type	Strain Relief without Cord	Strain Relief with Light		1/2″ Conduit without Cord	Strain Relief with Light & 6′ Cord	
		100-240 AC 48-120 DC	6-48 AC/DC		100-240 AC 48-120 DC	6-48 AC/DC
Part Number	SR7020-001	SRL7020-AA	SRL7020-DB	DIN PLUG	SRLC-7094-006	SRLC-7094-007

Solenoids Electrical Information

Coil Part Numbers

Coil Part Number **=Voltage	Description		Operator Type	Instructions	Lb
SC4**	**Weather-Proof** DIN 43650 Industrial Form B Connection NEMA 4X		W	Order coil separately (specify voltage code from below)	0.12
SC4**C SC4**CT (high temp 82°C max)	**Weather-Proof** 1/2" Conduit with 30" Leads NEMA 4X		W	Order coil separately (specify voltage code from below)	0.12
SC7**	**Explosion-Proof** 1/2" Conduit with 24" Leads CSA & FM Approved CL. I; Zone1 Ex m II T4; AEx m II CL. I; Div.1; GR. A, B, C, D CL. II; GR. E, F, G CL. III T4 Ta=-20°C to +60°C NEMA 4, 4X, 7C, 7D, 9		W	Order coil separately (specify voltage code from below)	0.44
SCI2D	**Intrinsically-Safe** Strain Relief Ex ia CL. I; GR. A,B,C,D CL. II; GR.E,F,G CL. III; Div.1; T5		V	Coil and Connector included with valve (24VDC only) **SCI2D Must be Used with an Intrinsically-Safe Barrier**	0.46

Voltage Codes

Lower Wattage available, upon request

** Code	Operator Type	Current (Amps) Inrush W		Inrush V	Inrush Z	Holding W		Holding V	Holding Z	Resistance (OHMS @ 25°C) W		Resistance V	Resistance Z	Power (AC=VA, DC=Watts) W		Power V	Power Z
	Voltage	NEMA		ATEX		NEMA		ATEX		NEMA		ATEX		NEMA		ATEX	
	+/-10%	4, 4x	7, 9	Ex ia	Ex m	4, 4x	7, 9	Ex ia	Ex m	4, 4x	7, 9	Ex ia	Ex m	4, 4x	7, 9	Ex ia	Ex m
2A	22/50 24/60	.36	-	-	-	.24	-	-	-	32	-	-	-	6.9	-	-	-
12	120/50 120/60	.08	.10	-	.04	.05	.05	-	.03	840	530	-	1164	6.9	6.5	-	3.4
22	230/50 230/60	.04	.05	-	.02	.03	.03	-	.01	3310	2345	-	6730	6.4	6.8	-	3.3
1D	12 VDC	.38	.38	-	.27	.38	.38	-	.27	32	32	-	45	4.8	4.5	-	3.5
2D	24 VDC	.20	.19	.05	.14	.20	.19	.05	.14	121	128	275	177	4.8	4.5	1.6	3.5

Fig: X2003AAWR-I-2D
Description: Coil Right - Intrinsically Safe - 24 VCD

Solenoids Part Number Chart

Body		NEMA CLASS		Voltage	
S2003ACWR	COIL LEFT FOR SPNII AND OTHER ACTUATORS THAT REQUIRE AIR TO COME IN ON THE LEFT IN SPRING RETURN MODE	4	4 = NEMA 4X	12	12 = 120 VAC
		7	7 = NEMA 7/9	22	22 = 240 VAC
		I	I = INTRINSICALLY SAFE - 24VDC ONLY	2A	2A = 24 VAC
X2003AAWR	COIL RIGHT FOR X AND OTHER ACTUATORS THAT REQUIRE AIR TO COME IN ON THE RIGHT IN SPRING RETURN MODE			1D	1D = 12 VDC
				2D	2D = 24 VDC