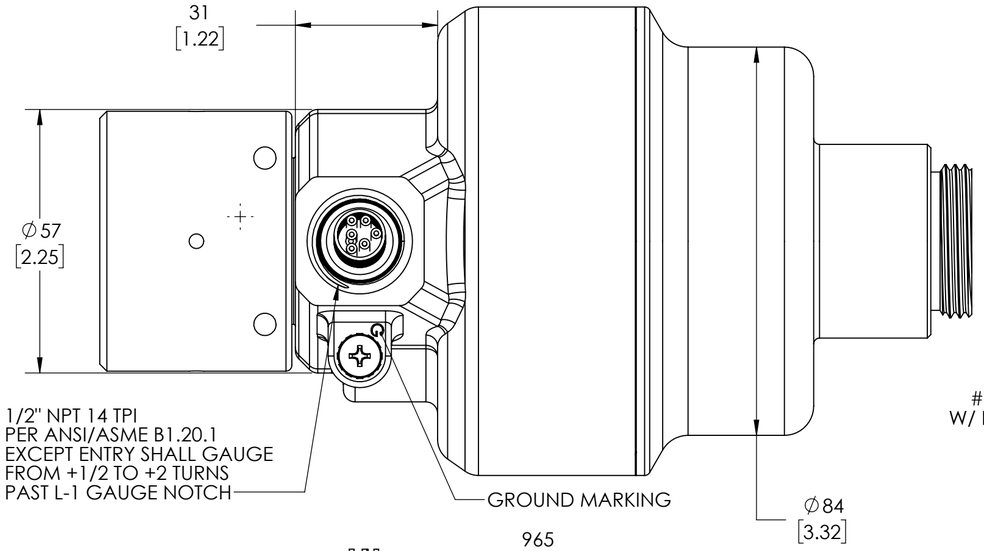
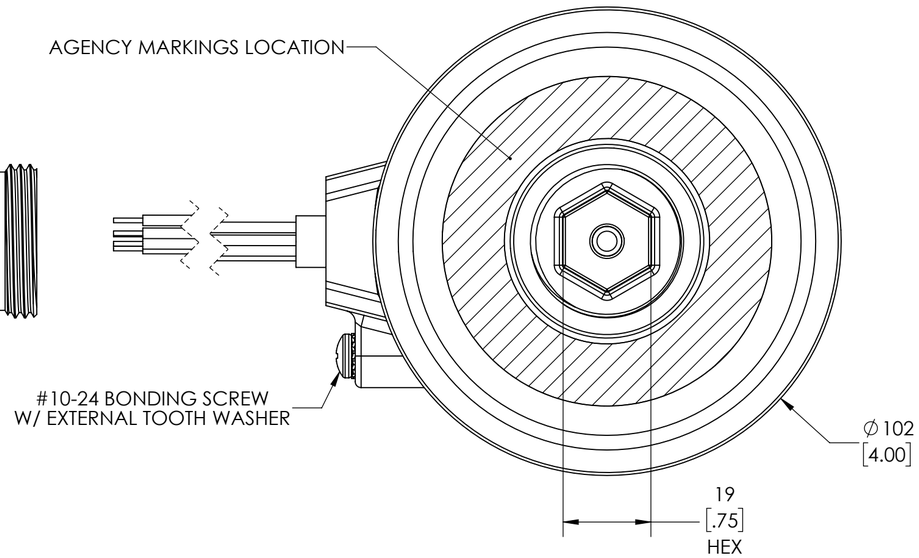
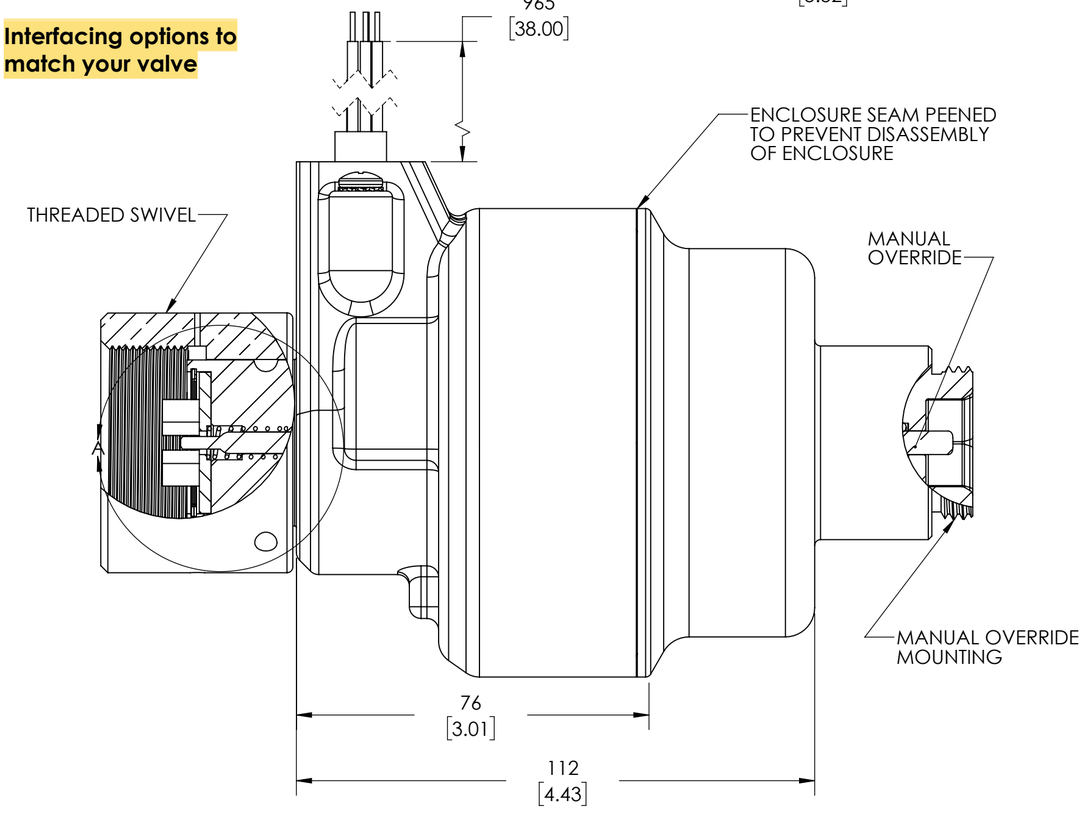
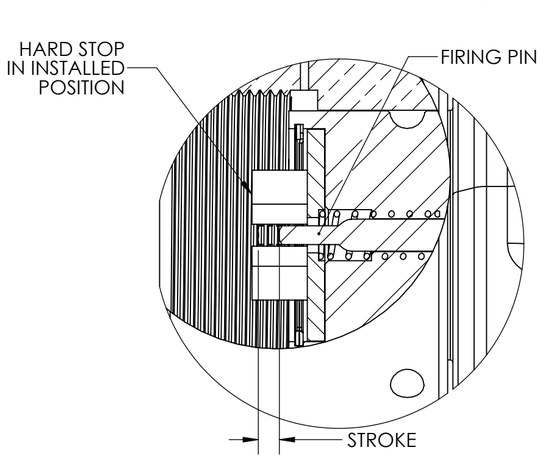




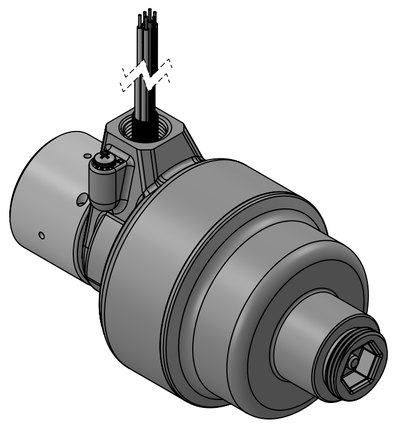
EX PRODUCT - COMPONENT IS USED IN HAZARDOUS LOCATIONS, EX CERTIFIED DEVICE. ANY CHANGES TO THIS COMPONENT MUST BE REVIEW BY THE EX AUTHORIZED REPRESENTATIVE AND REVIEWED IN THE ECR PROCESS

Interfacing options to match your valve





DETAIL A
SCALE 3 : 2



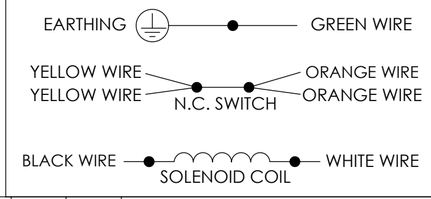
NOTES:

1. ELECTRONIC REQUIREMENTS/CONFIGURATIONS:
   - A. VOLTAGE SUPPLY: 24 VDC
   - B. CURRENT SUPPLY: 0.5A
   - C. MONITORING CURRENT: <30mA
   - D. NORMALLY CLOSED SUPERVISORY SWITCH (SWITCH OPEN WHEN ACTUATOR IS INSTALLED)
   - E. WIRING DIAGRAM AS SHOWN
   - F. REVERSE POLARITY COMPATIBLE VIA BRIDGE RECTIFIER CIRCUIT
   - G. LEAD WIRE: TFFN, 600V, 90C TEMP
   - H. EXTERNAL BONDING: #10-32 SCREW
     - SECURENESS: EXTERNAL TOOTH WASHER
     - MATERIAL: 18-8 STAINLESS STEEL
     - CONDUCTOR AREA: 0.087IN^2 [56.1MM^2]
   - I. PROTECTIVE EARTHING CONDUCTOR: 18AWG TFFN, 600V, 90C WIRE
     - SECURENESS: #8-32 SCREW ENCASED WITH POTTING COMPOUND
     - MATERIAL: 18-8 STAINLESS STEEL
     - CONDUCTOR AREA: 0.055IN^2 [35.4MM^2]

2. MECHANICAL REQUIREMENTS/CONFIGURATION:
   - A. MANUAL OVERRIDE FORCE: NOT TO EXCEED 40LB [178 N]
   - B. AMBIENT TEMPERATURE RANGE: -4°F TO 149°F (-20°C TO +65°C)
   - C. WIRE STRAIN RELIEF: 10LBS [44.5N] MINIMUM
   - D. EXTERIOR ENCLOSURE COMPONENTS COMPRISED OF 316 OR 304 STAINLESS STEEL
     - NO PAINTED SURFACES
     - MINIMAL AMOUNT OF MOLYKOTE 55 APPLIED TO O-RINGS. RESIDUAL AMOUNT OF GREASE MAY BE PRESENT ON FLAME PATH SURFACES DUE TO APPLICATION ON O-RING
   - E. STROKE: 0.30IN [7.62MM] MAX
   - F. FIRING FORCE: 150LB [681N] MAX

3. AGENCY RATINGS
   - A. A RECOGNIZED COMPONENT UNDER:
     - UL 864 , 1203, 50e
     - CSA C22.2 NO. 30:20
     - UL, IEC, CENELEC EN, & CSA C22.2 NO. 60079-0 & 60079-1
     - IEC 60529
   - B. cURus FILE E492320
     - Class I, Division 1, Groups A, B, C, & D, T5
     - Class I, Zone 1, AEx db IIC T5 Gb
     - Ex db IIC T5 Gb
     - Type 4X Enclosure
     - IP66
   - C. UL 21 ATEX 2557X
     - CE0539 Ex II 2 G Ex db IIC T5 Gb
   - D. IECEx UL 21.0050X
     - Ex db IIC T5 Gb

WIRE DIAGRAM



CUSTOMER P/N	REV	UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: 1° TWO PLACE DECIMAL ±0.01 THREE PLACE DECIMAL ±0.005	DRAWN		2019-08-27
			CHECKED		
			ENG APPR.		
		SURFACE FINISH: 125 µin. MAX. RA	INTERPRET GEOMETRIC TOLERANCING PER: ASME Y 14.5-2009		
		EDGE BREAK: 0.005 MAX.			
		MATERIAL			
		FINISH			
		ALL DIMENSIONS ARE POST PLATE			

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TLX Technologies

TITLE: EXPLOSION PROOF ACTUATOR

SIZE	DWG. NO.	REV
C	PA0546-X	G

SCALE: 1:1 | DO NOT SCALE DRAWING | SHEET 6 OF 6