

04023- Low Hysteresis Proportional Solenoid

Description

This is a long stroke linear proportional solenoid with extremely low hysteresis. Suitable for use in diesel engine throttle control, governed feedback systems or any application requiring accurate electro- mechanical position control.

Features:

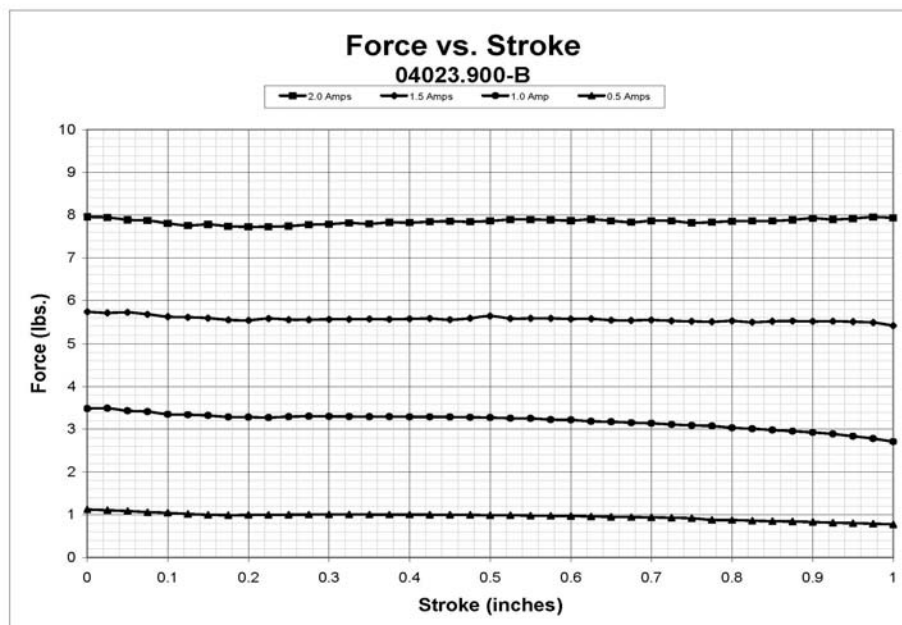
- Extremely Low Hysteresis
- 50 Hz signal control
- Compact Design
- Fast response

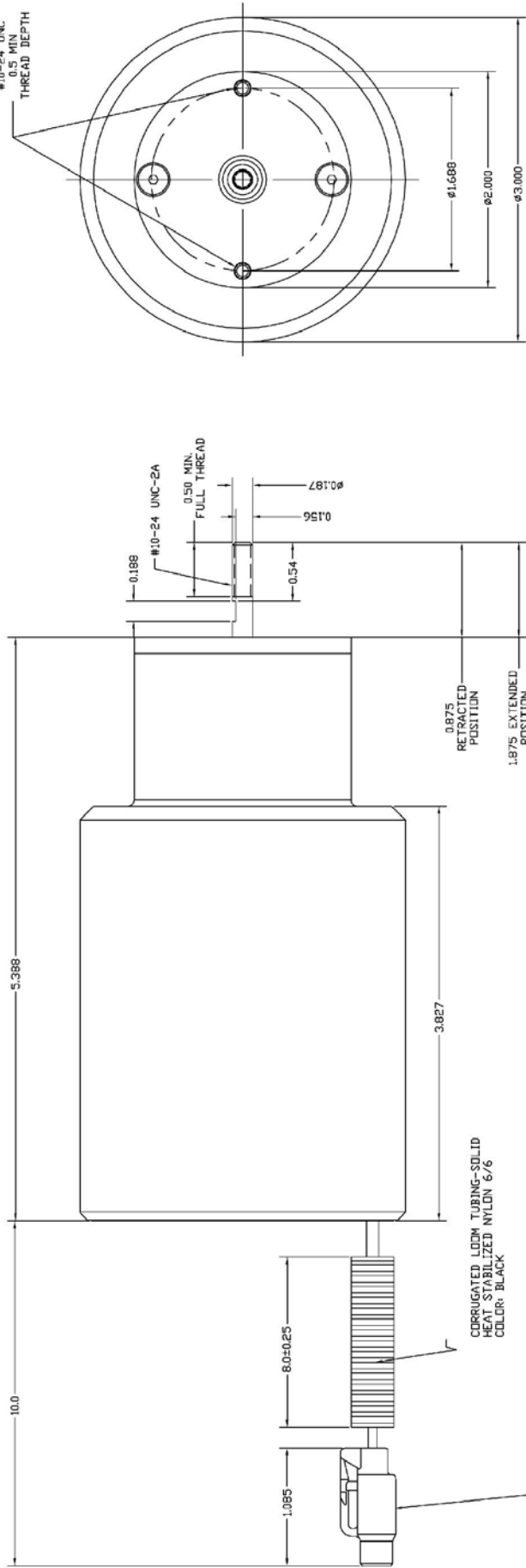


Typical Specifications

English (metric as applies)

Stroke (can be designed to customer specification)	1" ± .025" (25.4 mm)
Holding Force	8 lbs. (35.7 N)
Resistance at 20°C	3.77 ± .3 Ω
Supply Voltage	12.0 VDC or 24 VDC
Duty Rating (%ED)	100%ED
Operating Temperature Range	-40 - 248°F (-40 - 120°C)
Current	2.0 amp @ 12 VDC
Response Time (10-90%)	<50 msec
Connector Type	As required





PERFORMANCE SPECIFICATION

SUPPLY VOLTAGE:	12.0 VDC
RATED CURRENT:	2.0 AMPS MAX.
COIL RESISTANCE@20 °C:	3.77+/-0.30 OHMS
STROKE:	1.00"/+/-0.025"
SPRING LOAD EXTENDED:	N/A
SPRING LOAD RETRACTED:	N/A
NET PULL FORCE @ 2.0 A:	6.0 LBS. MIN.
AMBIENT TEMPERATURE RANGE:	-40°C TO +120°C
PULL-IN RESPONSE TIME 10%-90% OF STROKE:	< 50 MSEC

SPECIFICATIONS

Material:	
Surface Treatment:	
Remove All Burrs.	
CDT File No.	04023-WEB

TLX TECHNOLOGIES

STANDARD DIMENSIONAL TERMS ARE:
UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS ARE IN INCHES
2. DECIMAL POINT CDD IS ± 0.01
3. DECIMAL POINT CDD IS ± 0.02
4. DECIMAL POINT CDD IS ± 0.03

UNLESS SPECIFIED:
G.D & T PER AMS 145M
DIM. SURF. FINISH: 32 RMS
DIM. SURF. FINISH: 63 RMS

Drawn By: **B I I**
Checked By: **DK**

THIS PRINT AND THE INFORMATION THEREIN IS CONFIDENTIAL AND PROPRIETARY AND IS THE PROPERTY OF TLX TECHNOLOGIES. IT IS NOT TO BE COPIED OR REPRODUCED WITHOUT WRITTEN PERMISSION OF TLX TECHNOLOGIES.

Revision: **04023-WEB**