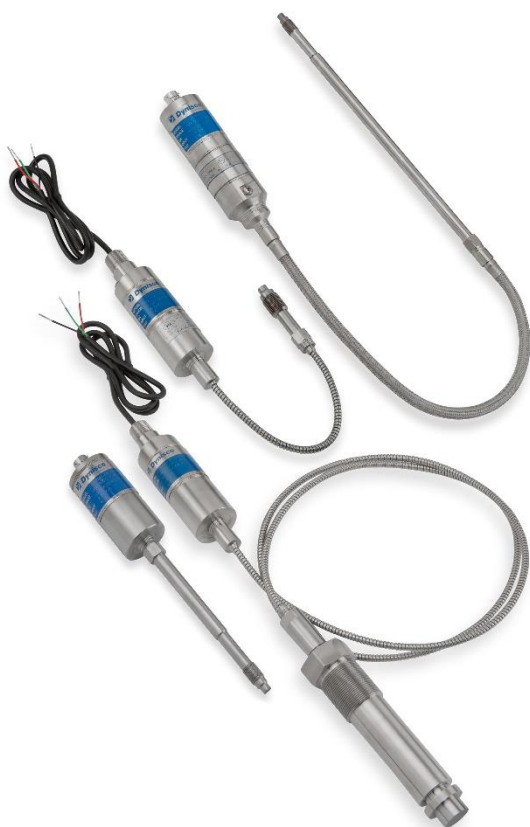


Řada SPX-4

Pressure sensors

General Purpose Smart Pressure Sensors for Hazardous Locations



Description

The Dynisco SPX 4-Series is a smart 4-20mA pressure transmitter designed for use in hazardous locations and are available with a variety of different process and electrical connections

These amplified transmitters eliminate the need for external signal conditioning. All models can interface directly with distributed control systems, PLC's, computers, and similar high level control devices. Optional thermocouple or RTD configurations are available to provide melt temperature.

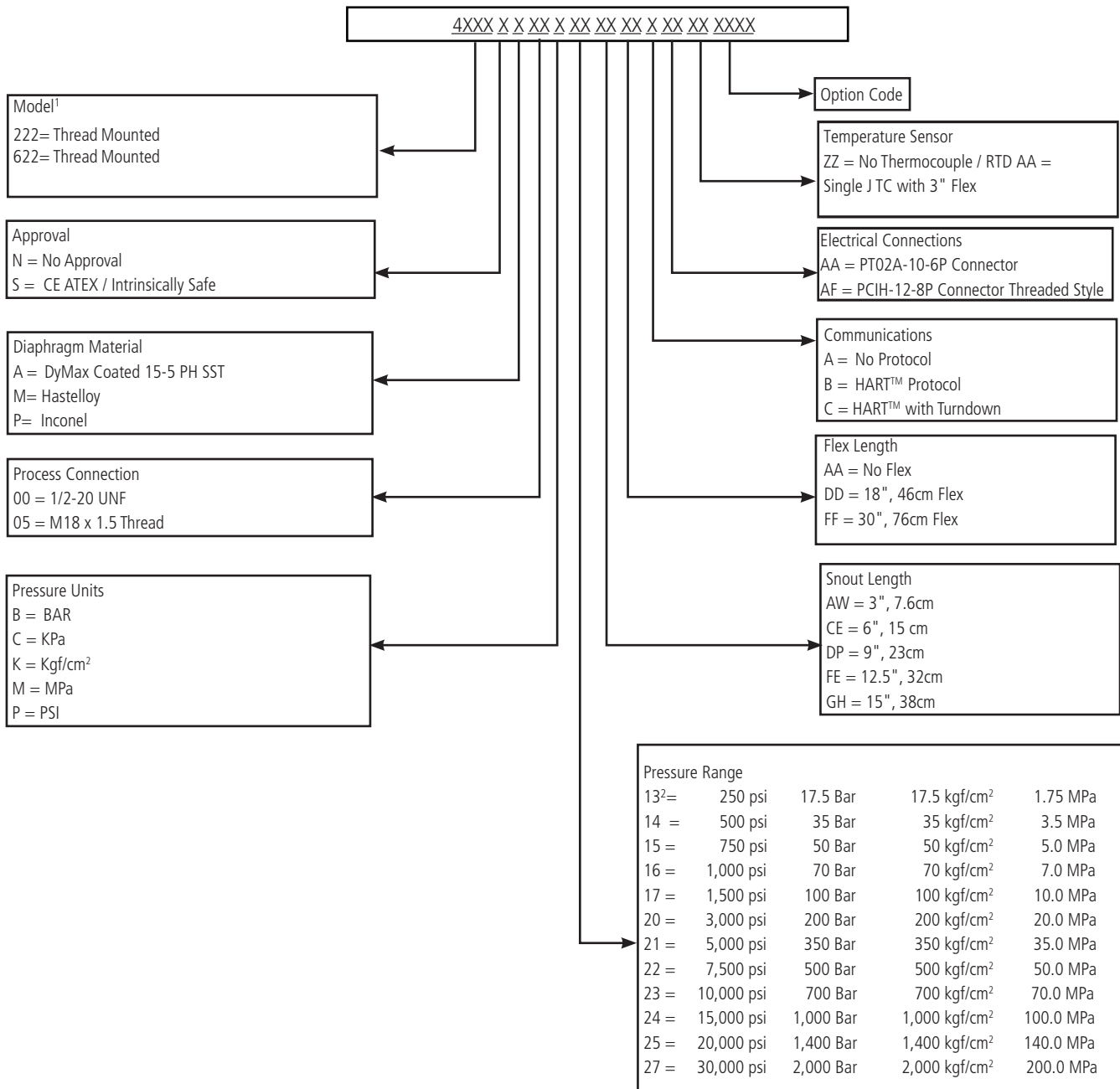
Features

- 4-20mA loop-powered output
- +/- 0.25% accuracy available
- Wide selection of pressure ranges available
- Turndown 6:1
- Configurations available for use in hazardous locations
- Remotely configurable via HART
- Precise, repeatable pressure measurements
- Output supplied directly to DSC or PLC
- Meets CE requirements
- CE ATEX Intrinsically Safe Approved
- SIL 2 Certified (pressure output)
- PL'c' Certified (relay output)
- Additional approvals are available

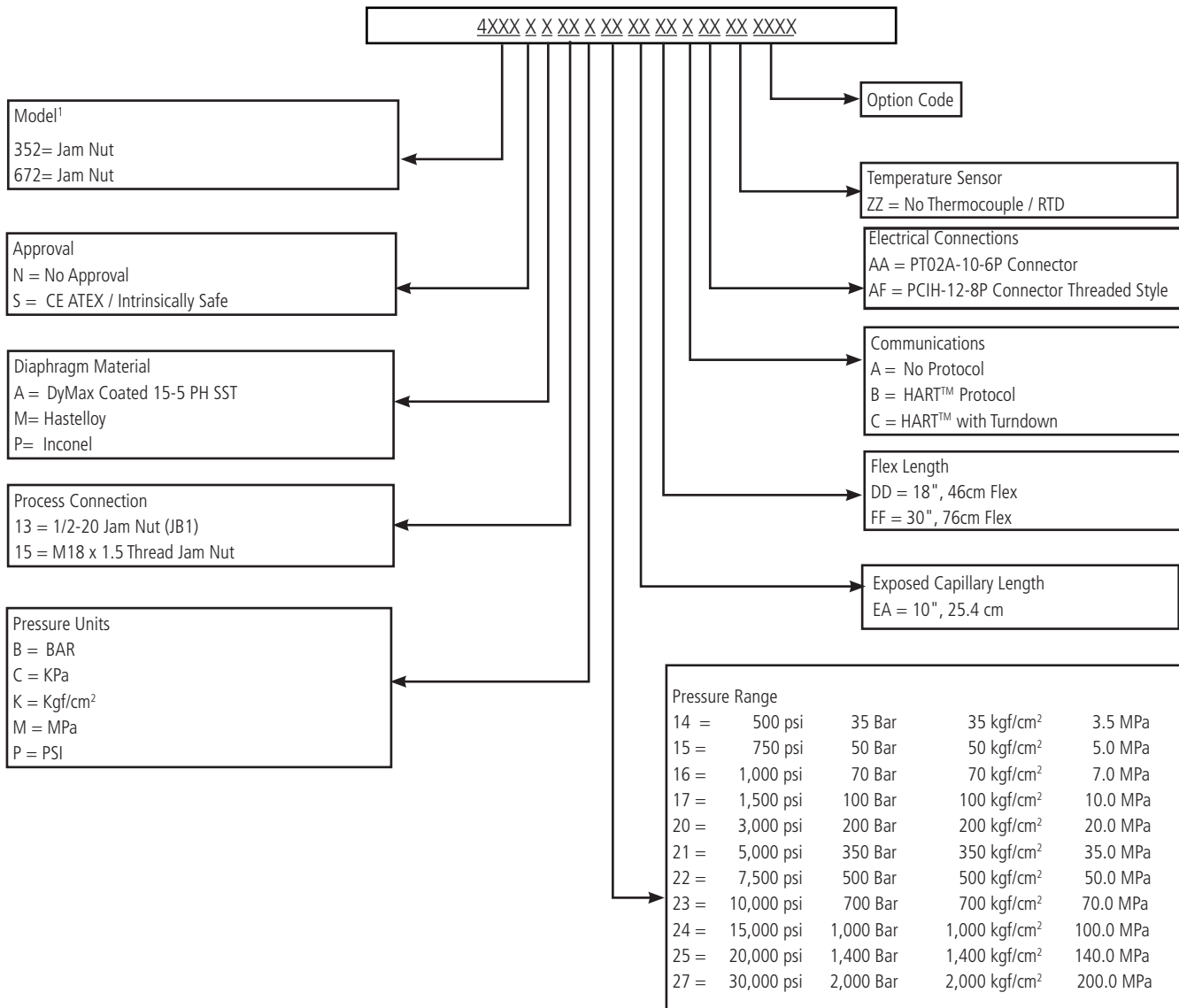
Performance Characteristics	
Output	4 - 20 mA, with optional HART™
Input Voltage	16 - 36 Vdc (Std); 16 - 30 Vdc (ATEX IS)
Accuracy <i>Accuracy is defined as the combined error expressed as a percentage of full scale output with the specifications of: Electronics ambient temperature, capillary of <= 36"; DyMax coated 15-5 SST diaphragm; Best Straight Line (BSL) %FS, per ISA-37.1 Consult Factory for availability and specifications of other configurations.</i>	4222 ± 0.25% for pressure ranges ≥ 1,500 psi; ± 0.50% for pressure ranges < 1,500 psi 4232 ± 0.25% for pressure ranges ≥ 1,500 psi; ± 0.50% for pressure ranges < 1,500 psi 4352 ± 0.25% for pressure ranges ≥ 1,500 psi; ± 0.50% for pressure ranges < 1,500 psi 4502 ± 0.50% 4622 ± 0.50% 4672 ± 0.50%
Repeatability	±0.1%
Rangeability	6:1 Turndown
Over Pressure	2X FSO or 35,000 psi, whichever is less 1.2 X FSO 35,000 - 72,500 psi
Zero Balance Adjustment Range	-40% to +10%; -80% to 20% for FSP < 500 psi
Load Resistance	500 Ω @ 24 Vdc, 1,000 Ω @ 36 Vdc
Electronics Ambient Temperature	70°F (20°C)
Electronics Operating Temperature	-20 to 185°F (-29 to 85°C)
Diaphragm Temperature	750°F (400°C) max [SPX4502 model limited to 600°F (315°C)]
Electronics Compensated Temperature Range	0 to 150°F (-18 to 65°C)
Zero Shift (Electronics Temp Change)	4222: 0.01% F.S./°F max (0.02% F.S./°C max) 4232: 0.01% F.S./°F max (0.02% F.S./°C max) 4352: 0.01% F.S./°F max (0.02% F.S./°C max) 4502: 0.01% F.S./°F max (0.02% F.S./°C max) 4622: 0.05% F.S./°F max (0.10% F.S./°C max) 4672: 0.05% F.S./°F max (0.10% F.S./°C max)
Span Shift (Electronics Temp Change)	4222: 0.01% F.S./°F max (0.02% F.S./°C max) 4232: 0.01% F.S./°F max (0.02% F.S./°C max) 4352: 0.01% F.S./°F max (0.02% F.S./°C max) 4502: 0.01% F.S./°F max (0.02% F.S./°C max) 4622: 0.02% F.S./°F max (0.04% F.S./°C max) 4672: 0.02% F.S./°F max (0.04% F.S./°C max)
Zero Shift (Snout Temp Change)	4222: 15 psi/100°F (27 psi/100°C) typical 4232: 15 psi/100°F (27 psi/100°C) typical 4352: 15 psi/100°F (27 psi/100°C) typical 4502: 1 psi/100°F (from 75-450°F); 2 psi/100°F (from 450-600°F) typical 4622: 25 psi/100°F (45 psi/100°C) typical 4672: 25 psi/100°F (45 psi/100°C) typical

Mechanical Characteristics	
Mounting Torque	4222: 500 inch-lbf max 4232: 50 inch-lbf max 4352: 500 inch-lbf max 4502: 350 inch-lbf max 4622: 500 inch-lbf max 4672: 500 inch-lbf max
Standard Wetted Parts	DyMax coated 15-5 PH SST
Approvals & Certifications	
CE ATEX IS	
SIL 2 (pressure output) & PL'c' (relay output)	
Additional approvals available (consult factory)	

Ordering Guide for Models SPX4222 & SPX4622

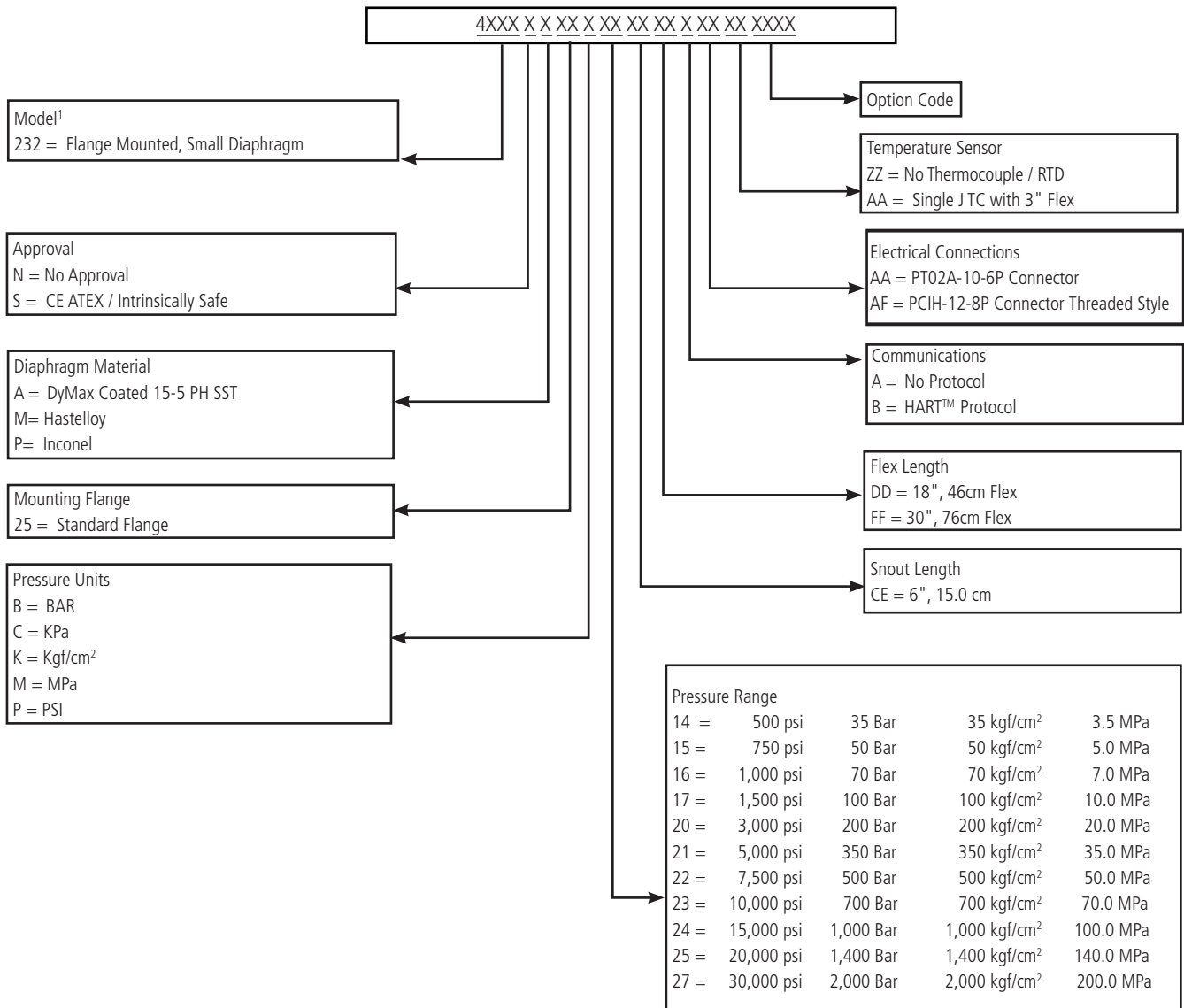
¹Other configurations are available. Please consult factory.²Available in M18 x 1.5 thread only

Ordering Guide for Models SPX4352 & SPX4672



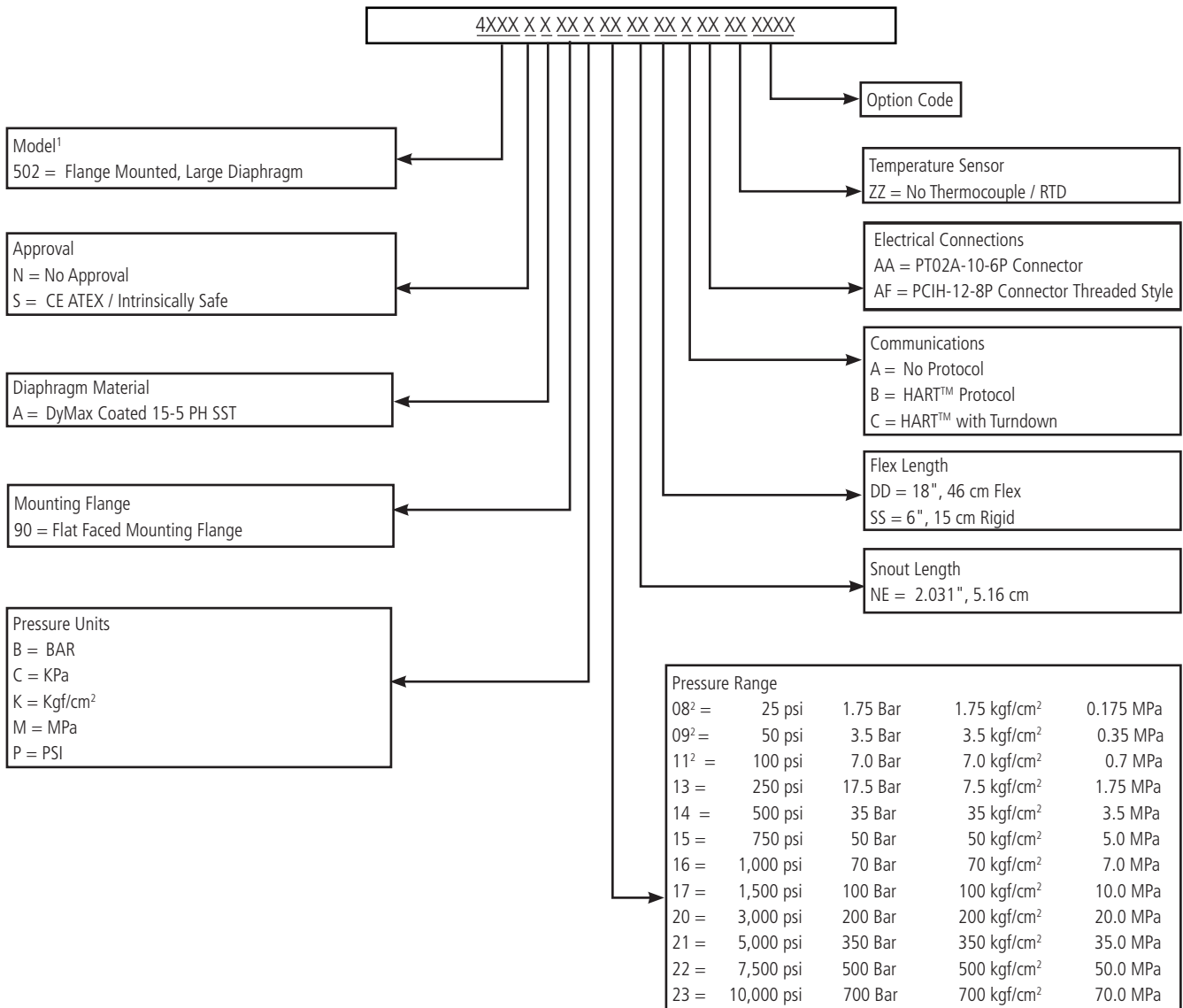
¹Other configurations are available. Please consult factory.

Ordering Guide for Model SPX4232



¹Other configurations are available. Please consult factory.

Ordering Guide for Model SPX4502

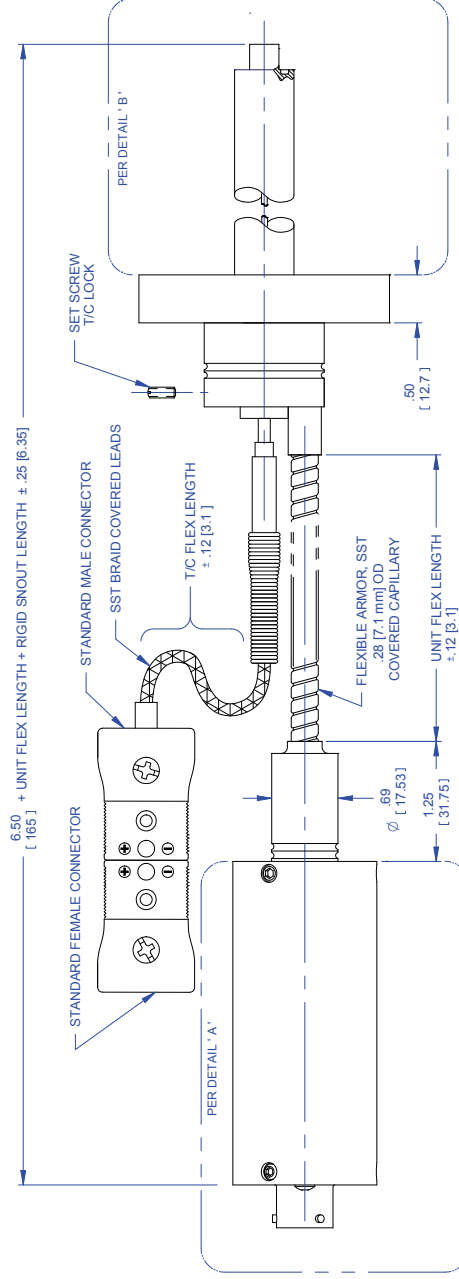
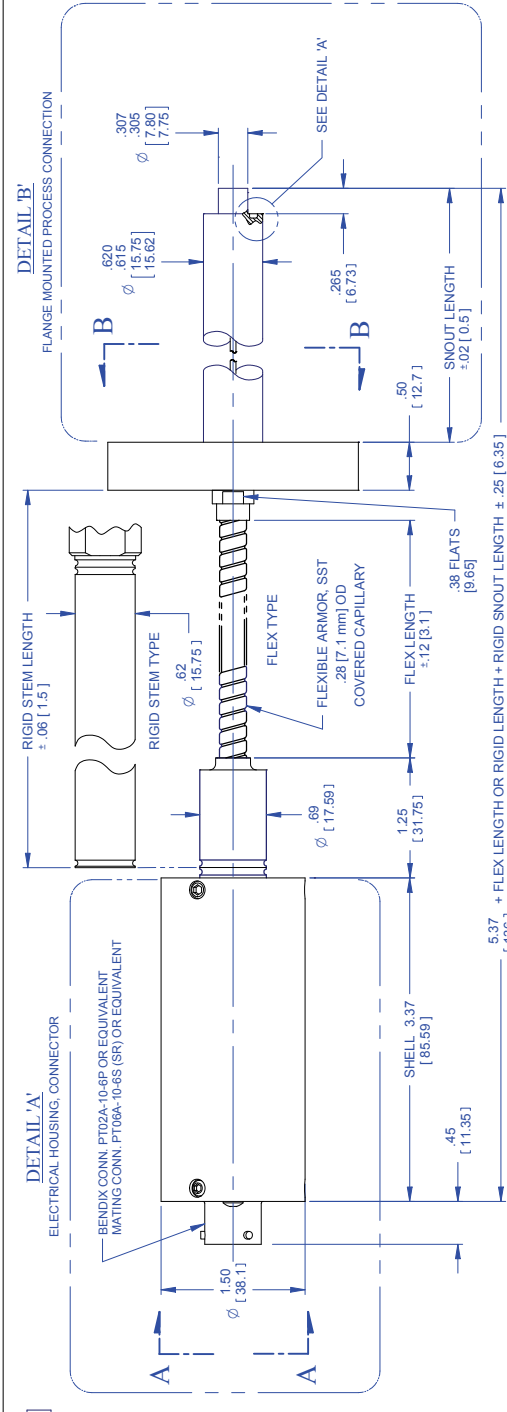


¹Other configurations are available. Please consult factory.

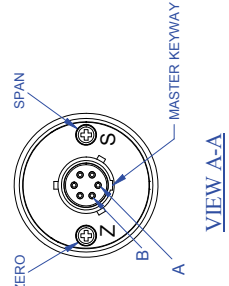
²Pressure ranges below 250 psi are supplied with rigid capillary.

REV	ECO	BY	APP	DATE
B	46553	TP	LEB	07/29/16 R

000408



ZERO AND SPAN ADJUSTS ARE PROTECTED BY SEAL SCREWS

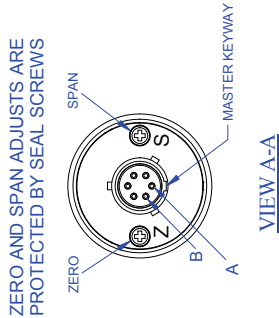
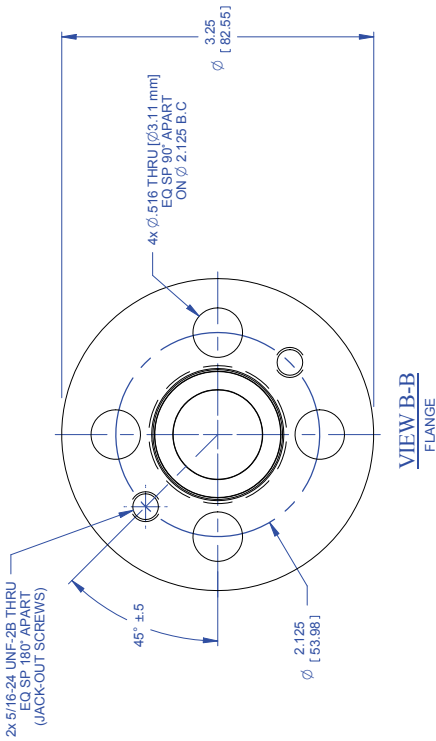
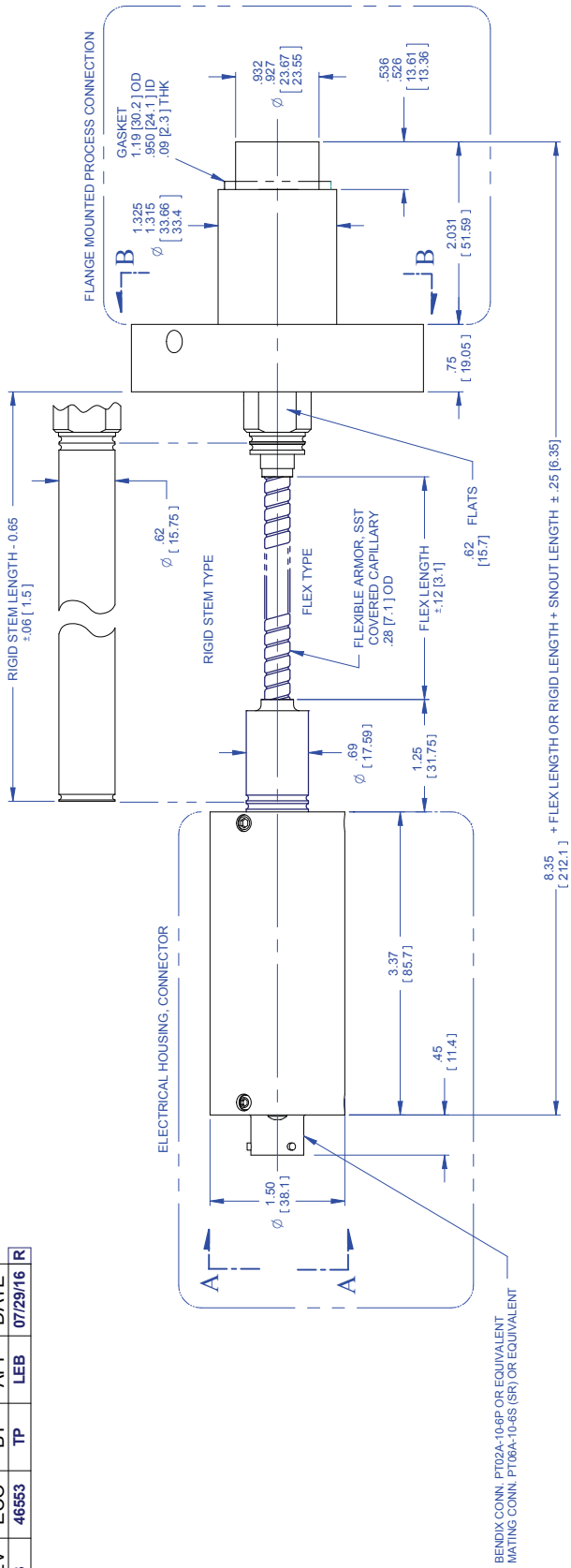


NOTES:
UNLESS OTHERWISE SPECIFIED:
1. ALL DIMENSIONS ARE IN INCHES
[MILLIMETERS]

TITLE		SPX-GEN2 OUTLINES		MODEL 4232		FLEX, RIGID & TPT	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		DRAWN		DATE		DATE	
1. 2 PLACE DECIMAL ± .01		DG		07/20/10		07/20/10	
2. 3 PLACE DECIMAL ± .005		CHECKED		MJJL		DATE	
3. DRILLS ± .005 DIA. ± .008		APPROVED		DATE		DATE	
4. ANGLES ± .05° MAX		FINISH		63		SCALE	
5. EDGES R .005 OR CHAMFER MAX		MATERIAL		X		NONE	
6. ALL DIMENSIONS ARE IN INCHES		REV		C		1 OF 1	
7. ALL DIMENSIONS ARE IN INCHES		DWG. NO.		000408		B	
8. ALL DIMENSIONS ARE IN INCHES		SIZE		COMMERCIAL STREET BARNACK, MA		DYNISCO	

REV	ECO	BY	APP	DATE
B	46553	TP	LEB	07/29/16 R

000412



CONNECTOR WIRING	
PIN	FUNCTION
A	POWER + / SIGNAL +
B	POWER - / SIGNAL -
C	NO
D	CONNECTION
E	Rcal -
F	Rcal +

TOLERANCES UNLESS OTHERWISE SPECIFIED: 1. 2 PLACE DECIMAL ± .01 2. 3 PLACE DECIMAL ± .005 3. FRACTIONS ± 1/32 4. DIMENSIONS IN PARENTHESES ARE FOR THE MANUFACTURE OR SALE OF APPARATUS WITHOUT PERMISSION 5. EDGES R .005 OR CHAMFER MAX 6. DIMENSIONS ARE IN INCHES		TITLE			
		SPX - GEN2 OUTLINE MODEL 4502 FLEX / RIGID			
MODEL NO. SPX-GEN2	DRAWN	DRG	DATE	07/20/10	
	CHECKED		DATE		
DO NOT SCALE DRAWING	APPROVED	MJL	DATE	07/20/10	
	FINISH	63 ✓			
MATERIAL X					
		SCALE	NONE	SHEET 1 OF 1	

NOTES:

UNLESS OTHERWISE SPECIFIED:

1. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]

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1. ALL DIMENSIONS ARE IN INCHES
[MILLIMETERS]

Dynisco

COMMERCIAL STREET BARNACK MA

REV	ECO	BY	APP	DATE	000652	
A	46553	TP	LEB	07/29/16	R	

8 - PIN PC
O-RING WITH PUSH BUTTONS
PCIH-12-8P

8 - PIN PC
WELDED WITH PUSH BUTTONS
PCIH-12-8P

8 - PIN PC
WELDED WITH HALLS
PCIH-12-8P

GUARDIAN CONNECTOR WIRING	
PIN	FUNCTION
A	POWER +
B	SIGNAL -
C	POWER -
D	NO CONNECTION
E	Rcal -
F	Rcal +
G	RELAY CONTACT
H	RELAY CONTACT

NOTE:
1. THESE CONNECTOR OPTIONS ARE AVAILABLE ON MOST OF THE CONFIGURATIONS SHOWN ON THE PREVIOUS SHEETS.

TOLERANCES UNLESS OTHERWISE SPECIFIED:		TITLE	
1. PLACE DECIMAL ± .005		GUARDIAN SERIES	
2. FRACTIONS ± 1/32		CONNECTORS	
3. DRILLS < 0.5 DIA. ± .002 > 0.5 DIA. ± .005		DRAWN TP DATE 7/27/16	
4. ANGLES ± 0.5°		CHECKED DATE	
5. EDGES R .005 MAX.		APPROVED LEB DATE 7/27/16	
6. EDGES R .006 OR CHAMFER MAX		FINISH 63	
7. PART TO BE FREE OF BURRS		DO NOT SCALE DRAWING	
8. ALL DIMENSIONS ARE IN INCHES.		MATERIAL X	
MODEL NO. X			

SIZE	DWG. NO.	REV
B	000652	A

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FORCE INNOVATION. FRANKLIN, MA

SCALE	NONE	SHEET	1 OF 1
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