



12,500 psig Line Pressure, 3% Max. Line Pressure Effect Wet-Wet Differential

Features

- Ranges from ± 5 to ± 125 psid
- High line pressure to 12,500 psid
- Wide dynamic response range
- Field replaceable diaphragms
- Symmetrical Pressure Cavities

DESCRIPTION

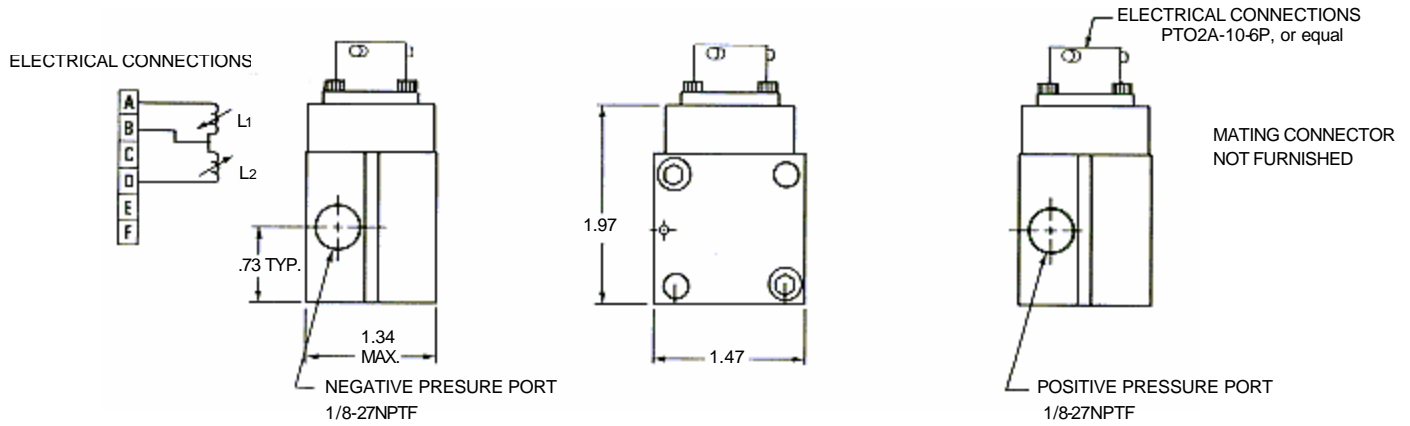
The DP363 is a variable reluctance differential pressure transducer capable of operation at line pressures up to 12,500 psig. Differential pressure ranges of 5 psid to 125 psid are offered-either unidirectional or bidirectional.

Features include take-apart construction enabling field maintenance, disassembly for cleaning, range changing, etc.; all stainless steel exposure to the pressure media, both ports, without the need for isolating fluids or mechanisms, very small pressure cavity volume and volumetric change for full pressure excursion coupled with a high natural frequency ensure excellent dynamic response characteristics,

Specifications

Pressure Range:	5 psid FS to 125 psid FS; unidirectional or bidirectional (See Pressure Range/Diaphragm Selection Chart on reverse side)
Accuracy:	$\pm 0.5\%$ FS (includes linearity, hysteresis and repeatability).
Overpressure:	2 times FS with less than 0.5% zero shift
Line Pressure:	12,500 psig max, with less than 3% FS zero shift
Output:	33 mV/V FS nominal.
Inductance:	20 mH nominal, each coil
Zero Balance:	Within 5 mV/V
Excitation:	Rated: 5V rms, at 3kHz to 5kHz Limits: 30V rms, at 3kHz 1kHz to 20kHz with 20mH coils
Pressure Media:	Any liquids or gasses compatible with type 410 SST, Inconel and BUNA -N O-rings (other materials available – see Ordering Information).
Temperature Range:	Operating: -65°F to +250°F Compensated: 0°F to 160°F*
Temperature Effects:	Zero: 1% FS/100°F Span: 4%/100°F
O-Ring Cavity Seals:	BUNA -N std; other materials available (see Ordering Information)
Pressure Connection:	1/8-27 NPT female ports;
Electrical Connections:	Bendix PT02A -10-6P or equal. Mating connector PT06A -10-6S (SR) or equal, not included. *
Weight:	12 oz. (.34 Kg)

*See Ordering Information section for available options.



Pressure Range Selection Chart

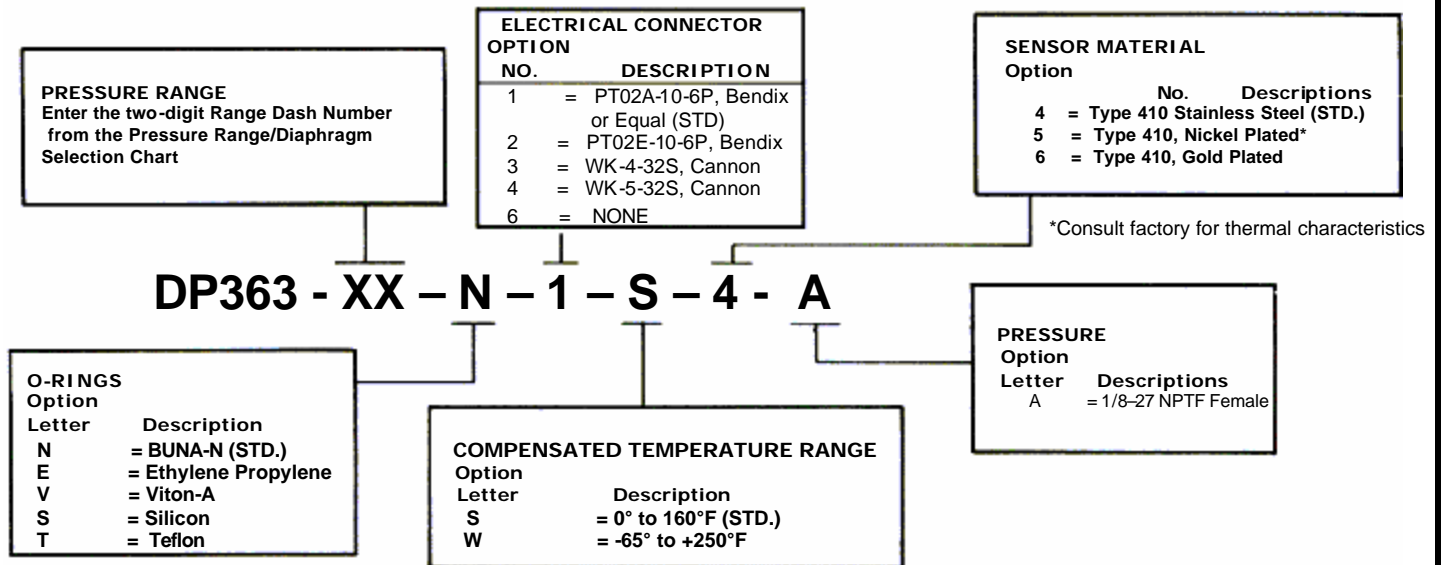
RANGE DASH NO.	PSI	IN HG	KGM/CM ²	KPA	BAR	CH H2O
-	5.0	10.2	0.35	35.0	0.34	350
40	8.0	16.0	0.56	55.0	0.55	560
42	20	41.0	1.40	140	1.38	1400
44	32	65.0	2.24	220	2.20	2250
46	50	102	3.50	350	3.44	3500
48	80	160	5.60	550	5.51	5600
50	125	250	8.80	860	8.61	8800

How to Use the Pressure Range Chart

First, enter the chart by selecting the appropriate engineering units desired (psi, kPa, etc.). Move down the column until the desired full scale range is located. Then, select the Range Dash Number (in the far left column) that corresponds to the pressure range needed. Should the desired full scale pressure range fall between the ranges listed, select the Range Dash Number for the next higher range. Example: to obtain a 15 psi transducer, select the 42 Range Dash Number. This transducer may then be calibrated and used for any full scale pressure range from ± 12.5 to ± 20 psi.

When this pressure chart is so used, the transducer will meet all of the performance specifications for the model.

Ordering Information to order, specify part number as follows:



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