

Industrial Pressure Transducers

Standard Industrial (S Model)



Features

- Accuracy $\leq 0.5\%$ of span limit point calibration (0.25% of span best fit straight line)
- Broad selection of pressure ranges, engineering units in psi, bar, MPa, kg/cm², and kPa. Pressure references: gauge (vacuum, positive, compound) and absolute
- Available with a variety of electrical connections and output signals
- Available with a variety of process connections including flush diaphragm and Swagelok® tube adapter

Contents

Features	1068
Performance Data	1068
Materials of Construction	1068
Calibration	1068
Model Selection Guide	1069
Transducer S Model: <i>Standard Industrial</i>	1070
Pressure Range Designators	1072
Dimensions	1074
Options	1076
Accessories	
Attachable Indicator Display	1076
Cooling Elements	1078
Weld Adapters	1078
Cables and Connectors	1078

Materials of Construction

Component	S Model	E Model
Wetted		
Internal diaphragm (25 bar [362 psi, 2.5 MPa, 25.5 kg/cm ² , 2500 kPa] and lower pressure range)	316 SS	
Internal diaphragm (over 25 bar [362 psi, 2.5 MPa, 25.5 kg/cm ² , 2500 kPa] pressure range)	AISI S13800	Elgiloy®
Process connection, flush diaphragm	316 Ti	
Flush diaphragm, O-ring	Buna N	
Nonwetted		
Transducer body	316 SS	
Flush diaphragm internal fluid, piezoresistive sensor internal fluid	Synthetic oil	

Features

Swagelok industrial pressure transducers provide electronic monitoring of system pressure for general industrial applications, including hazardous locations.



- Stainless steel construction with robust, compact design that resists pressure spikes, shock, and vibration
- Variety of pressure ranges, process connections, electrical connections, and output signals for system versatility
- Thin film and piezoresistive sensor technology for repeatability, reliability, and stability
- Temperature-compensated to ensure accuracy and long-term stability when exposed to temperature variations
- Available in flush diaphragm version for use with viscous fluids and slurries.
- Wiring protection against reverse polarity and short circuit on the instrument side

Performance Data

Accuracy	≤ 0.5 % LPC (0.25 % BFS), including nonlinearity, hysteresis, zero-point and full-scale error, measured in accordance with IEC 61298-2
Repeatability	≤ 0.1 % of span
Long-Term Stability	≤ 0.2 % of span per year
Response Time	≤ 1 ms with internal diaphragm connection; ≤ 10 ms with flush diaphragm connection
Shock Resistance	1000 g (600 g for field case models) in accordance with IEC 60068-2-27 (mechanical shock)
Vibration Resistance	20 g (10 g for field case models) in accordance with IEC 60068-2-6 (vibration under resonance)
Temperature Coefficients (TC) in Compensated Temperature Range	Pressure ranges equal to or less than 0.25 bar (3.6 psi, 0.025 MPa, 0.25 kg/cm ² , 25 kPa): ≤ 0.4 % of span per 18°F (10°C) change on zero point. Pressure ranges higher than 0.25 bar (3.6 psi, 0.025 MPa, 0.25 kg/cm ² , 25 kPa): ≤ 0.2 % of span per 18°F (10°C) change on zero point. ≤ 0.2 % of span per 18°F (10°C) change on span within compensated temperature range from 32 to 176°F (0 to 80°C)

Calibration

Every Swagelok pressure transducer is factory calibrated to ensure conformance to its stated accuracy.

Users Manuals

S Model: [MS-CRD-PTI-S](#)

Attachable Indicator Display: [MS-CRD-PTI-AI](#)

Model Selection Guide

Models	S Model Standard Industrial	
Approvals	CE and CSA®	
Diaphragm Type	Internal	Flush
Application	Wide variety of general industrial applications	Slurries, crystallizing, or high-viscosity media
Pressure Range	See Pressure Range Designators , page 1072.	
Vacuum psi to...	15 000 psi	8000 psi
Vacuum bar to...	1000 bar	600 bar
Vacuum MPa to...	100 MPa	60 MPa
Vacuum kg/cm ² to...	1000 kg/cm ²	600 kg/cm ²
Vacuum kPa to...	100 000 kPa	60 000 kPa
Pressure Reference	Gauge (vacuum, positive, compound) and absolute	
Output Signal	4 to 20 mA 0 to 5 V 0 to 10 V	
Options	See Options , page 1076.	
Special cleaning ASME B40.1 Level IV	✓	
Accuracy ≤ 0.25 % LPC of span (0.125 % BFSL) (for pressure ranges ≥ 0.25 bar [3.6 psi, 0.025 MPa, 0.25 kg/cm ² , 25 kPa])	✓	✓
11-Point Certificate of Calibration traceable to DKD, EN 10204 3.1	✓	✓
General Material Certificate of Compliance, EN 10204 2.2	✓	✓
Material Test Certificate, EN 10204 3.1, heat code traceable	✓	✓
Certificate of Accuracy, EN 10204 2.2	✓	✓
EPDM or fluorocarbon FKM/FPM O-rings	–	✓
Integral cooling element (–4 to 302°F [–20 to 150°C])	–	✓
Mounted cooling element (–40 to 302°F [–40 to 150°C] or –40 to 392°F [–40 to 200°C])	✓	–
Alloy 22 flush diaphragm (for pressure ranges ≥ 0.25 bar [3.6 psi, 0.025 MPa, 0.25 kg/cm ² , 25 kPa])	–	✓
Cable lengths 9 ft (2.7 m), 16 ft (4.9 m), 32 ft (9.8 m)	✓	✓
Cable lengths 10 ft (3.0 m), 20 ft (6.1 m), 30 ft (9.1 m)	–	–
Display	See Accessories , page 1076.	

S Model: Standard Industrial

The Swagelok S model is engineered for use in a wide variety of general industrial applications such as machine control, process control, laboratory and testing equipment, and hydraulics and pneumatics.

- Adjustable zero and span



Output Signals

- 4 to 20 mA
- 0 to 5 V (dc)
- 0 to 10 V (dc)

Electrical Connectors

- 4-pin circular (IP67/NEMA 4)
- Bendix MIL plugs (IP67/NEMA 4)
- Direct-wire zero and span adjustable (IP67/NEMA 4) or nonadjustable (IP68/NEMA 6)
- L-plugs (IP65/NEMA 5)

Process End Connections

Internal Diaphragm Type

- Swagelok tube adapter
- Tapered threads: male NPT and PT (ISO 7/1)
- Straight threads: EN (RG) and PF (RJ)

Flush Diaphragm Type

- EN flush diaphragm

Temperature Ratings

Without Integral Cooling Element

- Media: -22 to 212°F (-30 to 100°C)
- Ambient: -4 to 176°F (-20 to 80°C)
- Storage: -40 to 212°F (-40 to 100°C)
- Compensated range: 32 to 176°F (0 to 80°C)

With Integral Cooling Element (Flush Diaphragm Process Connection Only)

- Media: -4 to 302°F (-20 to 150°C)
- Ambient: -4 to 176°F (-20 to 80°C)
- Storage: -4 to 212°F (-20 to 100°C)

Electrical Data

- Power supply:
 - 10 to 30 V (dc) for 4 to 20 mA and 0 to 5 V (dc) output signals
 - 14 to 30 V (dc) for 0 to 10 V output signal

Approvals/Compliance

- CE conformity:
 - EMC Directive—2004/108/EC tested in accordance with EN 61 326-1:2006 and EN 61 326- 2-3:2006
 - Pressure Equipment Directive—2014/68/EU
- CSA (Canada and U.S.A.) approval: Class 2252-01

S Model: Standard Industrial

Ordering Information

Build an S Model transducer ordering number by adding the designators as shown below.

A B C D E
 PTI - S - **NG160** - **1 5** **AO** - **E**

A Pressure Range

See pages 1072 and 1073.

B Output Signal

- 1 = 4 to 20 mA
- 2 = 0 to 5 V (dc)
- 3 = 0 to 10 V (dc)

C Electrical Connector

(see page 1074 for Electrical Connector)

- 1 = 4-pin circular connector, M12 × 1 (IP67/NEMA 4)
- 2 = Direct-wire 4 ft (1.5 m) flying lead (IP67/NEMA 4)
- 3 = Bendix 4-pin MIL plug (IP67/NEMA 4)
- 5 = L-plug, PG9 cable gland, DIN EN175301-803 (IP65/NEMA 5)
- 6 = L-plug, 1/2 in. NPT female conduit, DIN EN175301-803 (IP65/NEMA 5)
- 7 = Direct-wire 4 ft (1.5 m) flying lead (IP68/NEMA 6) zero and span nonadjustable
- 8 = Bendix 6-pin MIL plug (IP67/NEMA 4)

D Process End Connection

(see page 1075 for Process Connector)

Internal Diaphragm Type

- AO** = 1/4 in. male NPT
- AP** = 1/2 in. male NPT^①
- AQ** = 1/4 in. Swagelok tube adapter
- BG** = 3/8 in. Swagelok tube adapter
- AR** = 1/2 in. Swagelok tube adapter
- AS** = 6 mm Swagelok tube adapter
- BH** = 10 mm Swagelok tube adapter
- AT** = 12 mm Swagelok tube adapter
- AV** = G1/4B EN (1/4 RG)^②
- AW** = G1/2B EN (1/2 RG)^{①②}
- AX** = G1/4B PF (1/4 RJ)^③
- AZ** = G1/2B PF (1/2 RJ)^③
- BD** = R1/4 PT (1/4 ISO 7 taper)
- BE** = R1/2 PT (1/2 ISO 7 taper)

Flush Diaphragm Type

- BV** = G1/2B EN flush diaphragm
- BJ** = G1B EN flush diaphragm

^① Refers to cooling element process connection when ordering mounted cooling element (designator **R** or **S**).

^② Can be used with Swagelok **RG** adapter fittings.

^③ Can be used with Swagelok **RJ** adapter fittings.

E Options (See pages 1069 and 1076.)

For multiple options, add designators in alphabetical order.

- A** = Special cleaning, ASME B40.1 Level IV^①
- B** = Accuracy ≤ 0.25 % LPC of span (0.125 % BFS) (for pressure ranges ≥ 0.25 bar [(3.6 psi, 0.025 MPa, 0.25 kg/cm², 25 kPa)])
- C** = 11-Point Certificate of Calibration traceable to DKD, EN 10204 3.1
- D** = General Material Certificate of Compliance, EN 10204 2.2
- E** = Material Test Certificate, EN 10204 3.1, heat code traceable^⑤
- F** = Certificate of Accuracy, EN 10204 2.2
- R** = Mounted cooling element, -40 to 302°F (-40 to 150°C) (3 fins)^②
- S** = Mounted cooling element, -40 to 392°F (-40 to 200°C) (5 fins)^②
- T** = 9 ft (2.7 m) cable^③
- Y** = 16 ft (4.9 m) cable^③
- Z** = 32 ft (9.8 m) cable^③

Flush Diaphragm Type Only

- U** = Integral cooling element (2 fins) (requires process end connection **BV** or **BJ** and EPDM or fluorocarbon FKM/FPM O-ring [option **W** or **X**])
- V** = Alloy 22 flush diaphragm (for pressure ranges ≥ 0.25 bar [3.6 psi, 0.025 MPa, 0.25 kg/cm², 25 kPa]; requires process end connection **BV** or **BJ**)
- W** = EPDM O-ring^④
- X** = Fluorocarbon FKM/FPM O-ring

^① Available *only* with positive pressure ranges ≥ 0.40 bar (5.8 psi, 0.04 MPa, 0.41 kg/cm², 40 kPa); not available with process end connections **BV** or **BJ**; not available with options **R**, **S**, **U**, **W**, or **X**. When ordered with a piezoresistive sensor range, a halocarbon fluid is included; for oxygen applications, maximum media temperature is 140°F (60°C).

^② Available *only* with process end connections **AP** and **AW**; transducer-to-cooling element connection is G1/2B EN (1/2 RG). Cooling element is not field removable.

^③ Available *only* with direct-wire electrical connectors; select electrical connector **2** or **7**.

^④ Maximum pressure allowed is 2900 psi or equivalent (200 bar, 20 MPa, 204 kg/cm², 2000 kPa).

^⑤ Not available with process end connections **AX**, **AZ**, **BD** or **BE**.

Pressure Range Designators

psi

Pressure Range		Designator	Over-pressure Rating	Burst Rating	Sensor Type
Minimum	Maximum				
psi Gauge Reference					
Vacuum -30 in. Hg	0	NC0	72	87	Piezoresistive
	30	NC30 ^①	140	170	
	60	NC60	140	170	
	100	NC100	140	170	
	160	NC160	500	600	
	200	NC200	500	600	
	300	NC300	500	600	
0	5	NG5 ^②	72	87	Piezoresistive
	10	NG10	72	87	
	15	NG15	72	87	
	25	NG25	72	87	
	30	NG30 ^①	72	87	
	50	NG50	140	170	
	60	NG60	240	290	
	100	NG100	240	290	
	160	NG160	500	600	
	200	NG200	500	600	
	250	NG250	500	600	
	300	NG300	500	600	
	400	NG400	1 160	1 390	
	500	NG500	1 160	5 800	
	600	NG600	1 740	7 970	
	750	NG750	1 740	7 970	
	1 000	NG1000	2 900	11 600	
	1 500	NG1500	4 640	14 500	
	2 000	NG2000	4 640	14 500	
	3 000	NG3000	7 250	17 400	
5 000	NG5000 ^③	11 600	24 650		
8 000	NG8000 ^④	17 400	34 800		
10 000	NG10K ^⑤	21 750	43 500		
15 000	NG15K	21 750	43 500		
psi Absolute					
0	15	NA15	72	87	Piezoresistive
	25	NA25 ^①	72	87	
	50	NA50	140	170	
	100	NA100	240	290	
	250	NA250	500	600	

① Minimum for G1/2 EN flush diaphragm; maximum for G1B EN flush diaphragm.

② Minimum for E model.

③ Maximum for 3/8 and 1/2 in.; 10 and 12 mm Swagelok tube adapter.

④ Maximum for G1/2B EN flush diaphragm.

⑤ Maximum for 1/4 in. and 6 mm Swagelok tube adapter.

⑥ Only available on S Models.

bar

Pressure Range		Designator	Over-pressure Rating	Burst Rating	Sensor Type
Minimum	Maximum				
bar Gauge Reference					
Vacuum -1	0	AC0	1	2	Piezoresistive
	0.6	AC.6 ^①	4	4.8	
	3	AC3	17	20.5	
	5	AC5	35	42	
	9	AC9	35	42	
	15	AC15	80	96	
	25	AC25	50	250	
0	0.1	AG.1 ^⑥	1	2	Piezoresistive
	0.16	AG.16 ^⑥	1.5	2	
	0.25	AG.25 ^⑥	2	2.4	
	0.4	AG.4 ^②	2	2.4	
	0.6	AG.6	4	4.8	
	1	AG1	5	6	
	1.6	AG1.6 ^①	10	12	
	2.5	AG2.5	10	12	
	4	AG4	17	20.5	
	6	AG6	35	42	
	10	AG10	35	42	
	16	AG16	80	96	
	25	AG25	50	250	
	40	AG40	80	400	
	60	AG60	120	400	
	100	AG100	200	800	
	160	AG160	320	1 000	
	250	AG250	500	1 200	
	400	AG400 ^③	800	1 500	
	600	AG600 ^{④⑤}	1 200	1 500	
1 000	AG1000	1 500	3 000		
bar Absolute					
0	0.25	AA.25	2	2.4	Piezoresistive
	0.4	AA.4	2	2.4	
	0.6	AA.6	4	4.8	
	1	AA1	5	6	
	1.6	AA1.6 ^①	10	12	
	2.5	AA2.5	10	12	
	4	AA4	17	20.5	
	6	AA6	35	42	
	10	AA10	35	42	
16	AA16	80	96		

MPa

Pressure Range		Designator	Over-pressure Rating	Burst Rating	Sensor Type	
Minimum	Maximum					
MPa Gauge Reference						
Vacuum -0.1	0	MC0	0.1	0.2	Piezoresistive	
	0.06	MC.06	0.4	0.48		
	0.15	MC.15 ^①	1	1.2		
	0.3	MC.3	1.7	2		
	0.6	MC.6	3.5	4.2		
	0.9	MC.9	3.5	4.2		
	1.5	MC1.5	8	9.6		
	2.5	MC2.5	5	25		
0	0.04	MG.04 ^②	0.2	0.24	Piezoresistive	
	0.06	MG.06	0.4	0.48		
	0.1	MG.1	0.5	0.6		
	0.16	MG.16 ^①	1	1.2		
	0.25	MG.25	1	1.2		
	0.4	MG.4	1.7	2		
	0.6	MG.6	3.5	4.2		
		1	MG1.0	3.5	4.2	
		1.6	MG1.6	8	9.6	
		2.5	MG2.5	5	25	
		4	MG4	8	40	Metal thin film
		6	MG6	12	40	
		10	MG10	20	80	
		16	MG16	32	100	
	25	MG25	50	120		
	40	MG40 ^③	80	150		
	60	MG60 ^{④⑤}	120	150		
	100	MG100	150	300		

kg/cm²

Pressure Range		Designator	Over-pressure Rating	Burst Rating	Sensor Type	
Minimum	Maximum					
kg/cm² Gauge Reference						
Vacuum -1	0	CC0	1	2	Piezoresistive	
	0.6	CC.6	4	4.8		
	1	CC1	5	6		
	1.6	CC1.6 ^①	10	12		
	3	CC3	17	20.5		
	4	CC4	17	20.5		
	5	CC5	35	42		
	9	CC9	35	42		
	15	CC15	80	96		
	25	CC25	50	250		
0	0.6	CG.6 ^②	4	4.8	Piezoresistive	
	1	CG1	5	6		
	1.6	CG1.6 ^①	10	12		
	2.5	CG2.5	10	12		
	4	CG4	17	20.5		
	6	CG6	35	42		
	10	CG10	35	42		
	16	CG16	80	96		
		25	CG25	50	250	Metal thin film
		40	CG40	80	400	
		60	CG60	120	400	
		100	CG100	200	800	
		160	CG160	320	1 000	
		250	CG250	500	1 000	
		400	CG400 ^③	800	1 500	
		600	CG600 ^{④⑤}	1 200	1 500	
	1 000	CG1000	1 500	3 000		

kPa

Pressure Range		Designator	Over-pressure Rating	Burst Rating	Sensor Type	
Minimum	Maximum					
kPa Gauge Reference						
Vacuum -100	0	JC0	100	200	Piezoresistive	
	60	JC60 ^①	400	480		
	300	JC300	1 700	2 000		
	500	JC500	1 700	2 000		
	900	JC900	3 500	4 200		
	1 500	JC1500	8 000	9 600		
0	40	JG40 ^②	200	240	Piezoresistive	
	60	JG60	400	480		
	100	JG100	500	600		
	160	JG160 ^①	1 000	1 200		
	250	JG250	1 000	1 200		
	400	JG400	1 700	2 000		
	600	JG600	3 500	4 200		
		1 000	JG1000	3 500	4 200	Metal thin film
		1 600	JG1600	8 000	9 600	
		2 500	JG2500	5 000	25 000	
		4 000	JG4000	8 000	40 000	
		6 000	JG6000	12 000	40 000	
		10 000	JG10K	20 000	80 000	
		16 000	JG16K	32 000	100 000	
	25 000	JG25K	50 000	120 000		
	31 500	JG31.5K	50 000	120 000		
	40 000	JG40K ^③	80 000	150 000		
	60 000	JG60K ^{④⑤}	120 000	150 000		
	100 000	JG100K	150 000	300 000		

① Minimum for G1/2 EN flush diaphragm; maximum for G1B EN flush diaphragm.

② Minimum for E model.

③ Maximum for 3/8 and 1/2 in.; 10 and 12 mm Swagelok tube adapter.

④ Maximum for G1/2B EN flush diaphragm.

⑤ Maximum for 1/4 in. and 6 mm Swagelok tube adapter.

Dimensions

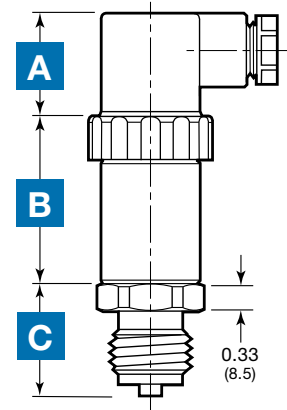
Choose electrical connector, body type, and process end connection, and add together for overall height of transducer.

Dimensions, in inches (millimeters), are for reference only and are subject to change.

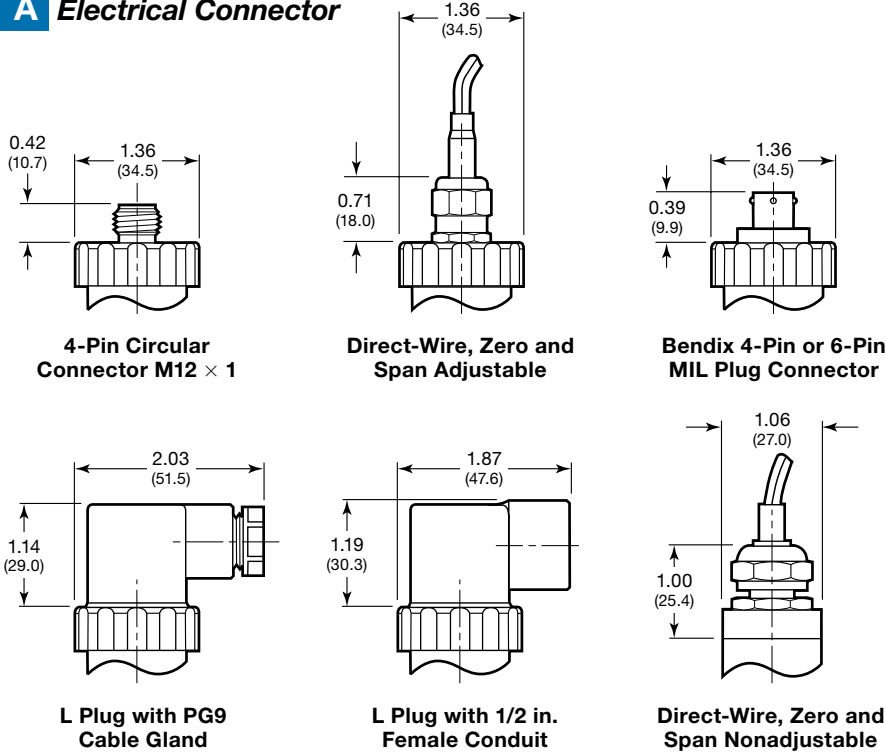
Electrical Connector

Body

Process End Connection



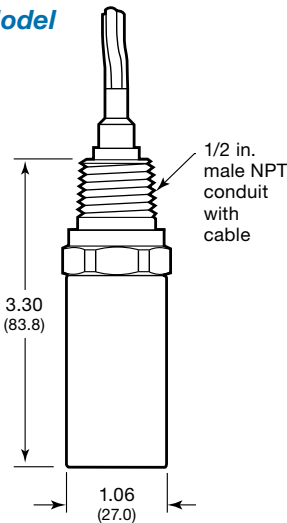
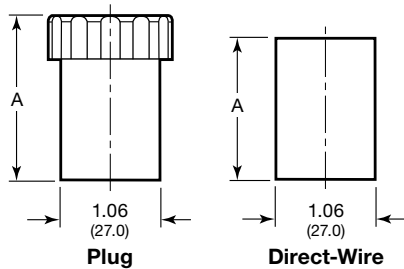
A Electrical Connector



B Body

S Model

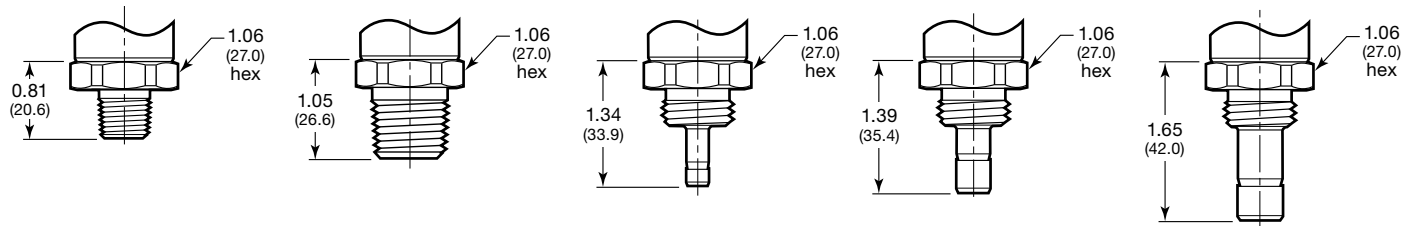
E Model



Body Style	Model Accuracy	A in. (mm)
Plug	≤ 0.5 %	1.77 (45.0)
	≤ 0.25 %	2.56 (65.0)
Direct-wire zero and span nonadjustable	≤ 0.5 %	1.52 (38.5)
	≤ 0.25 %	2.13 (54.0)

Dimensions

C Process End Connection



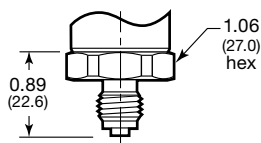
1/4 in. Male NPT and R1/4PT (ISO 7/1 Taper)

1/2 in. Male NPT and R1/2PT (ISO 7/1 Taper)

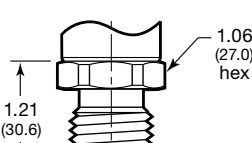
1/4 in. and 6 mm Swagelok Tube Adapter

3/8 in. and 10 mm Swagelok Tube Adapter

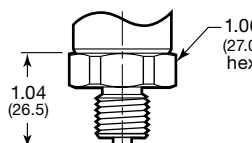
1/2 in. and 12 mm Swagelok Tube Adapter



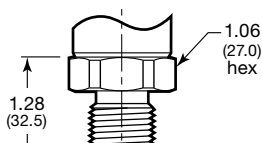
G1/4B EN (1/4 RG)



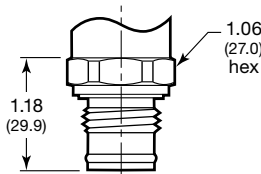
G1/2B EN (1/2 RG)



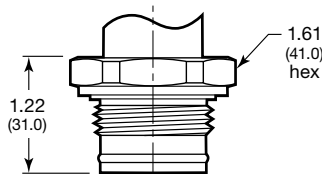
G1/4B PF (1/4 RJ)



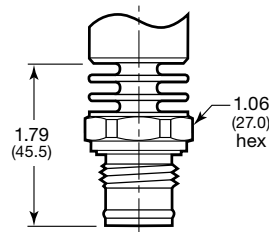
G1/2B PF (1/2 RJ)



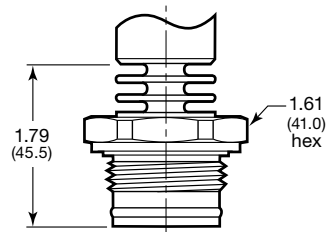
G1/2B EN Flush Diaphragm



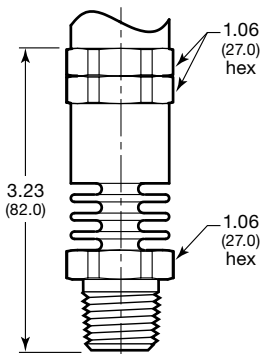
G1B EN Flush Diaphragm



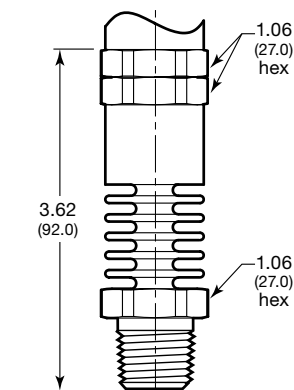
G1/2B EN Flush Diaphragm with Integral Cooling Element (2 Fins)



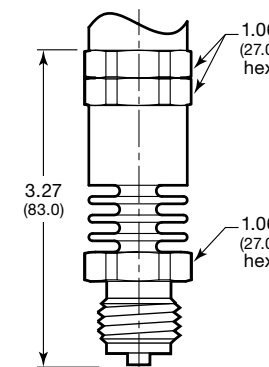
G1B EN Flush Diaphragm with Integral Cooling Element (2 Fins)



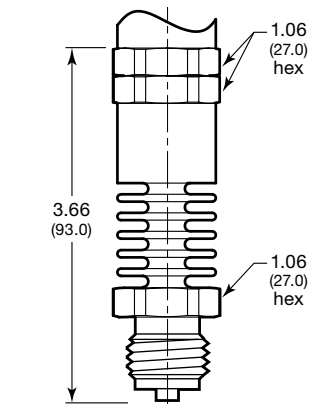
1/2 in. Male NPT with Mounted Cooling Element -40 to 302°F (-40 to 150°C) (3 Fins)



1/2 in. Male NPT with Mounted Cooling Element -40 to 392°F (-40 to 200°C) (5 Fins)



G1/2B EN with Mounted Cooling Element -40 to 302°F (-40 to 150°C) (3 Fins)



G1/2 EN with Mounted Cooling Element -40 to 392°F (-40 to 200°C) (5 Fins)

Options

Options are specified in transducer ordering numbers as shown in **Ordering Information** for each model.

EPDM and Fluorocarbon FKM/FPM O-Rings

EPDM or fluorocarbon FKM/FPM O-rings are available for flush diaphragm-type transducers.

FKM is the designation for fluorinated elastomers as defined in ASTM D1418; *FPM* is the international designation defined in ISO/DIN 1629.

Alloy 22 Diaphragm

An alloy 22 diaphragm is available for flush diaphragm-type transducers with pressure ranges equal to or higher than 0.25 bar (3.6 psi, 0.025 MPa, 0.25 kg/cm², 25 kPa).

Cables

Optional cable lengths are available. See **Ordering Information** for lengths available for each transducer model.

Cooling Elements

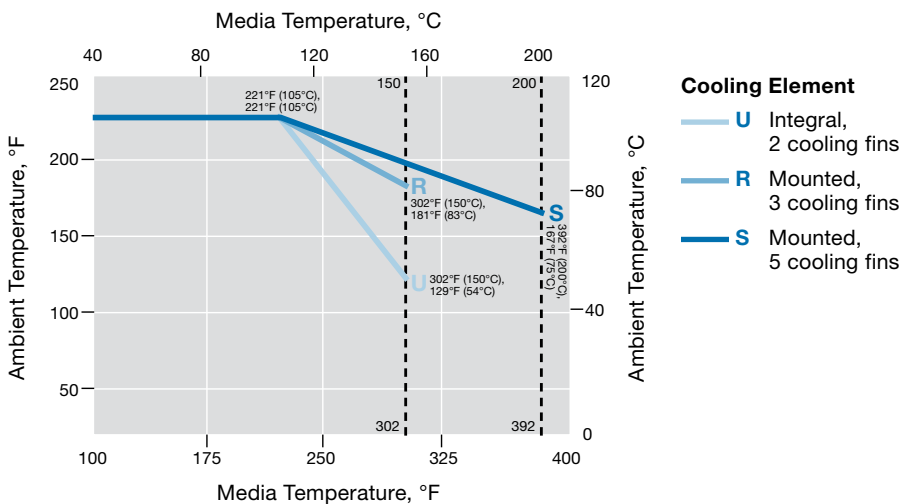
Cooling elements extend the temperature ratings of pressure transducers.

Integral cooling elements (option designator **U**) have two cooling fins and are available on S model transducers with flush diaphragms.

Mounted cooling elements (option designators **R** and **S**) have three and five cooling fins, respectively, and are available on S model transducers with internal diaphragms.

See the graph below for cooling element selection information.

Cooling Element Ratings—Media vs Ambient Temperature



Examples: For an ambient temperature of 150°F (65°C) and a media temperature of 250°F (121°C), cooling elements **U**, **R**, and **S** would be suitable.
For an ambient temperature of 150°F (65°C) and a media temperature of 350°F (176°C), only cooling elements **R** and **S** would be acceptable.

Accessories

Attachable Indicator Display

This LCD, 4-digit digital display attaches directly to S model transducers using an L-plug connector and 4 to 20 mA output signals. The display provides local readout of system pressure with simultaneous signal transmission.

Features

- Retrofits to transducers already in use
- Adjustable and programmable with flush-mounted keys below the front cover
- Rugged, compact plastic case meets IP65
- CE conformity to 89/336/EEC
- Integrated self-diagnosing circuit monitoring

Performance

- Accuracy: 0.2% of span \pm 1 digit
- Scale adjustment: manually programmed, menu driven

Display

- Range: -1999 to 9999
- Pickup rate: 5/s
- 4-digit LCD, 0.40 in. (10.2 mm) high

Housing

- Material: ABS plastic

Electrical Data

- Input/output signal: 4 to 20 mA
- Voltage drop: 3 V
- Maximum current rating: 40 mA
- Power supply: supplied by the 4 to 20 mA loop

Accessories



Temperature Rating

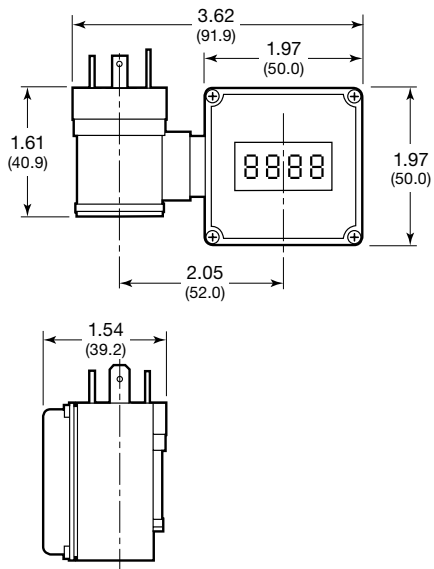
- Ambient:
32 to 122°F (0 to 50°C)
- Storage:
-22 to 176°F (-30 to 80°C)
- Influence on display:
0.1 % per 18°F (10°C)

Ordering Number

PTI-AI

Dimensions

Dimensions, in inches (millimeters), are for reference only and are subject to change.



Accessories

Cooling Elements

Thread-on cooling element adapters are available for use with G1/2B EN (1/2 RG) process connections on S model transducers only. These cooling adapters increase the media temperature ratings.



Description	Ordering Number
G1/2B EN (1/2 RG), 302°F (150°C) media, 86°F (30°C) ambient (3 fins)	PTI-CE150-AW
G1/2B EN (1/2 RG), 392°F (200°C) media, 86°F (30°C) ambient (5 fins)	PTI-CE200-AW
1/2 in. male NPT, 302°F (150°C) media, 86°F (30°C) ambient (3 fins)	PTI-CE150-AP
1/2 in. male NPT, 392°F (200°C) media, 86°F (30°C) ambient (5 fins)	PTI-CE200-AP

Weld Adapters

Field-installed weld adapters with factory machined mating ports are available for the G1/2B EN and G1B EN flush diaphragm process connections.



Description	Ordering Number
G1/2B EN flush diaphragm weld adapter	PTI-WA-BV
G1B EN flush diaphragm weld adapter	PTI-WA-BJ

Cables and Connectors



Mating Connector	Ordering Number
M12 × 1, 6 ft (2 m) cable, straight, 4-wire	PTU-MC-3
M12 × 1, 16 ft (5 m) cable, straight, 4-wire	PTU-MC-4
M12 × 1, 6 ft (2 m) cable, 90° angled, 4-wire	PTU-MC-5
M12 × 1, no cable, straight, 4-pin	PTU-MC-6
M12 × 1, no cable, 90° angled, 4-pin	PTU-MC-7
M12 × 1, 6 ft (2 m) cable, straight, 5-wire, UL listed ^①	PTU-MC-8
M12 × 1, 16 ft (5 m) cable, straight, 5-wire, UL listed ^②	PTU-MC-9
M12 × 1, 6 ft (2 m) cable, 90° angled, 5-wire, UL listed ^②	PTU-MC-10
M12 × 1, 16 ft (5 m) cable, 90° angled, 5-wire, UL listed ^②	PTU-MC-11
M12 × 1, no cable, straight, 5-pin	PTU-MC-12
M12 × 1, no cable, 90° angled, 5-pin	PTU-MC-13
M12 × 1 male, no cable, 90° angled, 4-pin,	PTU-MC-14
M12 × 1, 32 ft (10 m) cable, 90° angled, 4-wire, UL listed ^②	PTU-MC-15

① UL style 2164/1061, temperature rating 176°F (80°C).

② UL style 20549/1061, temperature rating 176°F (80°C).

⚠ WARNING

Do not mix/interchange Swagelok products or components not governed by industrial design standards, including Swagelok tube fitting end connections, with those of other manufacturers.