

Technical Information

STR700 SmartLine Remote Diaphragm Seals
Specification 34-ST-03-104, August 2024**Introduction**

Part of the SmartLine® family of products, the STR700 is a series of pressure transmitters hydraulically matched and optimized with a complete set of remote diaphragm seals. Utilizing the same high performance sensor technology of the ST 800 product line Honeywell has optimized the mechanical and hydraulic designs in order to minimize the typical effects of temperature on remote seal systems. The SmartLine family is also fully tested and compliant with Experion® PKS providing the highest level of compatibility assurance and integration capabilities. SmartLine easily meets the most demanding application needs for pressure measurement applications.

Best in Class Transmitter Features:

- Accuracies up to 0.075% of span.
- Automatic static pressure & temperature compensation.
- Rangeability up to 100:1.
- Multiple local display capabilities.
- External zero, span, & configuration capability.
- Polarity insensitive electrical connections.
- Comprehensive on-board diagnostic capabilities.
- Integral Dual Seal design for highest safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0.
- World class overpressure protection.
- Full compliance to SIL 2/3 requirements.
- Modular design characteristics.
- Available with additional 4-year warranty.

Span & Range Limits:

Model	URL psid (bar)	LRL psid (bar)	Min Span psid (bar)
STR73D	100 (7.0)	-100 (-7.0)	0.9 (0.062)
STR74G	500 (35.0)	-14.7 (-1.0)	5 (0.35)

**Figure 1 – STR700 Remote Diaphragm Seal Unit****Typical Diaphragm Seal applications**

- High Process Temperatures.
- Viscous or Suspended Solids.
- Highly Corrosive Process Materials.
- Sanitary Applications.
- Applications with Hydrogen Permeation Possibilities.
- Level Applications with Maintenance Intensive Wet Legs.
- Applications requiring remote Transmitter Mounting.
- Tank Applications with Density or Interface Measurements.

Communications/Output Options:

- Honeywell Digitally Enhanced (DE)
- HART ® (version 7.0)

All transmitters are available with the above listed communications protocols.

Description

The SmartLine family pressure transmitters are designed around a high performance piezo-resistive sensor. This one sensor integrates multiple sensors linking process pressure measurement with on-board static pressure (DP Models) and temperature compensation measurements. This level of performance allows the ST 700 to replace most competitive transmitters available today.

Unique Indication/Display Option

The ST 700 modular design accommodates a standard alphanumeric LCD display or a unique advanced graphics LCD display with many unparalleled features.

Standard LCD Display Features

- Modular (may be added or removed in the field).
- Supports HART protocol variant.
- 0, 90, 180, & 270 degree position adjustments.
- Four configurable screens.
- Standard and custom measurement units available.
- Display calculated flow (square root) value in addition to analog output signal.
- 2 Lines 6 digits PV (9.95H x 4.20W mm) 8 Characters.
- Write protect Indication.
- Built-in Basic Device Configuration through Internal or External Buttons – Range/Engineering Unit/Loop Test /Loop Calibration/Zero /Span Setting.
- Multiple language capabilities (EN, RU).

Advanced Graphics LCD Display Features

- Modular (may be added or removed in the field).
- 0, 90, 180, & 270-degree position adjustments.
- Standard and custom measurement units available.
- Up to eight display screens with 3 formats are possible.
- Large PV with Bar Graph or PV with Trend Graph.
- Configurable screen rotation timing (1 to 30 sec).
- Display calculated flow (square root) value in addition to analog output signal.
- Unique "Health Watch" indication provides instant visibility of diagnostics.
- Multiple language capability (EN, DE, FR, IT, ES, RU, TR, CN, & JP).

Diagnostics

SmartLine transmitters all offer digitally accessible diagnostics which aid in providing advanced warning of possible failure events minimizing unplanned shutdowns, providing lower overall operational costs.

System Integration

- SmartLine communications protocols all meet the most current published standards for HART/DE.
- Integration with Honeywell's Experion PKS offers the following unique advantages.
 - Tamper reporting.
 - FDM Plant Area Views with Health summaries.
 - All ST 700 units are Experion tested to provide the highest level of compatibility assurance.

Configuration Tools

Integral Two Button Configuration Option

Suitable for all electrical and environmental requirements, SmartLine offer the ability to configure the transmitter and display via three externally accessible buttons when either display option is selected. Zero/span capabilities are also optionally available via these buttons with or without selection of a display option.

Handheld Configuration

SmartLine transmitters feature two-way communication and configuration capability between the operator and the transmitter. All Honeywell transmitters are designed and tested for compliance with the offered communication protocols and are designed to operate with any standards compliant handheld configuration device, such as Honeywell Versatilis Configurator.

Personal Computer Configuration

On a personal computer or laptop, Honeywell Field Device Manager (FDM) Software and FDM Express can be used for managing HART device configurations.

Modular Design

To help contain maintenance & inventory costs, all ST 700 transmitters are modular in design supporting the user's ability to replace meter bodies, add indicators or change electronic modules without affecting overall performance or approval body certifications. Each meter body is uniquely characterized to provide in-tolerance performance over a wide range of application variations in temperature and pressure and due to the Honeywell advanced interface, electronic modules may be swapped with any electronics module without losing in-tolerance performance characteristics.

Modular Features

- Meter body replacement.
- Exchange/replace electronics/comms modules*.
- Add or remove integral indicator*.
- Add or remove lightning protection (terminal connection)*.

* Field replaceable in all electrical environments (including IS) except flameproof without violating agency approvals.

With no performance effects, Honeywell's unique modularity results in **lower inventory needs and lower overall operating costs.**

Performance Specifications

Reference Accuracy (conformance to +/-3 Sigma)

Table 1

Model	URL	LRL	Min Span	Maximum Turndown Ratio	Reference Accuracy ^{1,2} (% Span) Standard/Optional
STR73D	100 psi (7.0 bar)	-100 psi (-7.0bar)	0.9 psi (0.062bar)	111:1	0.075
STR74G	500 psi (35 bar)	-14.7 psi (-1.0 bar)	5 psi (0.035 bar)	100:1	0.075/0.040

Zero and span may be set anywhere within the listed (URL/LRL) range limits

Table 2

		Accuracy ^{1,2} (% of Span)				Combined Zero & Span Temperature Effect (% Span / 28°C (50°F))			
	Model	URL	Reference Turndown	A	B	C (see URL units)	D	E	F
Standard Accuracy	STR73D	100 psi (7.0 bar)	27.7:1	0.025	0.050	3.61 (0.25)	0.275	1.200	7.2 (0.50)
	STR74G	500 psi (35 bar)	25:1	0.005	0.060	25 (1.4)	-	-	-
High Accuracy Option	STR74G	500 psi (35 bar)	25:1	0.005	0.035	25 (1.75)			
Turn Down Effect							Temp Effect		
$\pm [A + B] \quad \text{if Span} \geq C$ $\pm \left[A + B \left(\frac{C}{\text{Span}} \right) \right] \quad \text{if Span} < C$							$\pm \left[D + E \left(\frac{F}{\text{Span}} \right) \right]$ $\pm \left[A + B \left(\frac{F}{\text{Span}} \right) \right] \quad \text{if Span} < F$		

Accuracy at Specified Span, Temperature and Static Pressure: (conformance to +/-3 Sigma)

Total Performance (% of Span): _____

Total Performance = +/-

$$\sqrt{(\text{Accuracy})^2 + (\text{Temp Effect})^2}$$

Total Performance Examples (for comparison): (standard accuracy 5:1 Turndown, up to 50 °F (28°C) shift)

STR73D @ 20 psi: 1.477% of span

Typical Calibration Frequency:

Calibration verification is recommended every four (4) years.

Notes:

1. Terminal based Accuracy – Includes combined effects of linearity, hysteresis and repeatability. Analog output adds 0.005% of span.
2. For zero based spans and reference conditions of 25°C (77°F). 0 psi static pressure for DP, >= 0 psia for GP, 10 to 55% RH, and 316 Stainless Steel barrier diaphragm.
3. Specification applies to transmitter with 2 balanced remote seals. Apply a factor of 1.5 for temperature effect of capillary lengths greater than 10 feet.

Operating Conditions – All Models

Parameter	Reference Condition (at zero static)		Rated Condition		Operative Limits		Transportation and Storage	
	°C	°F	°C	°F	°C	°F	°C	°F
Ambient Temperature ¹	25±1	77±2	-	-	-	-	-55 to 90	-67 to 194
Humidity %RH	10 to 55		0 to 100		0 to 100		0 to 100	
Vacuum Region, Minimum Pressure mmHg absolute	Atmospheric (See Figure 4 for vacuum limitation)							
Supply Voltage, Current, and Load Resistance	HART: 10.8 to 42.4 VDC at terminals (IS versions limited to 30 VDC), 0 to 1,440 ohms DE: 15 to 49.3VDC at terminals (IS versions limited to 30VDC), 0 to 1,200 ohms (as shown in Figure 2)							
Maximum Allowable Working Pressure (MAWP) ⁴ (ST 700 products are rated to Maximum Allowable Working Pressure. MAWP depends on Approval Agency and transmitter materials of construction.)	MAWP is minimum of Body Rating or Seal Rating (See Model Selection Guide for Seal MAWP) Body MAWP STR73D 750 psig (51.7 bar) Bolted Process Heads STR74G 500 psig (35 bar)							

¹ Ambient Temperature Limit is a function of Process Interface Temperature. (See Figures 3 & 4)

LCD Display operating temperature -20°C to +70°C . Storage temperature -30°C to 80°C

⁴ Consult factory for MAWP of ST 700 transmitters with CRN approval.

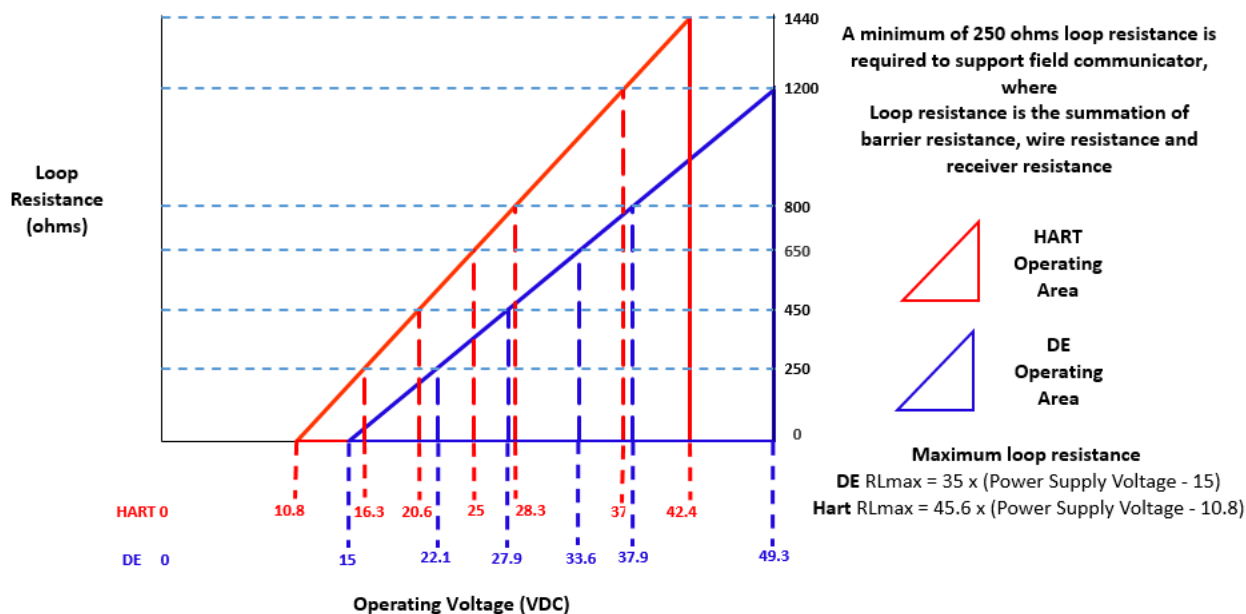


Figure 2- Supply voltage and loop resistance

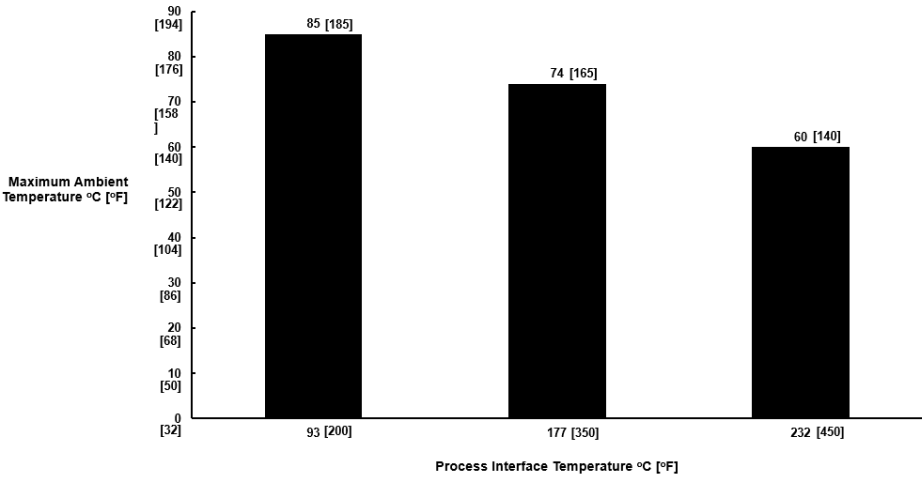


Figure 3- Ambient temperature Limits

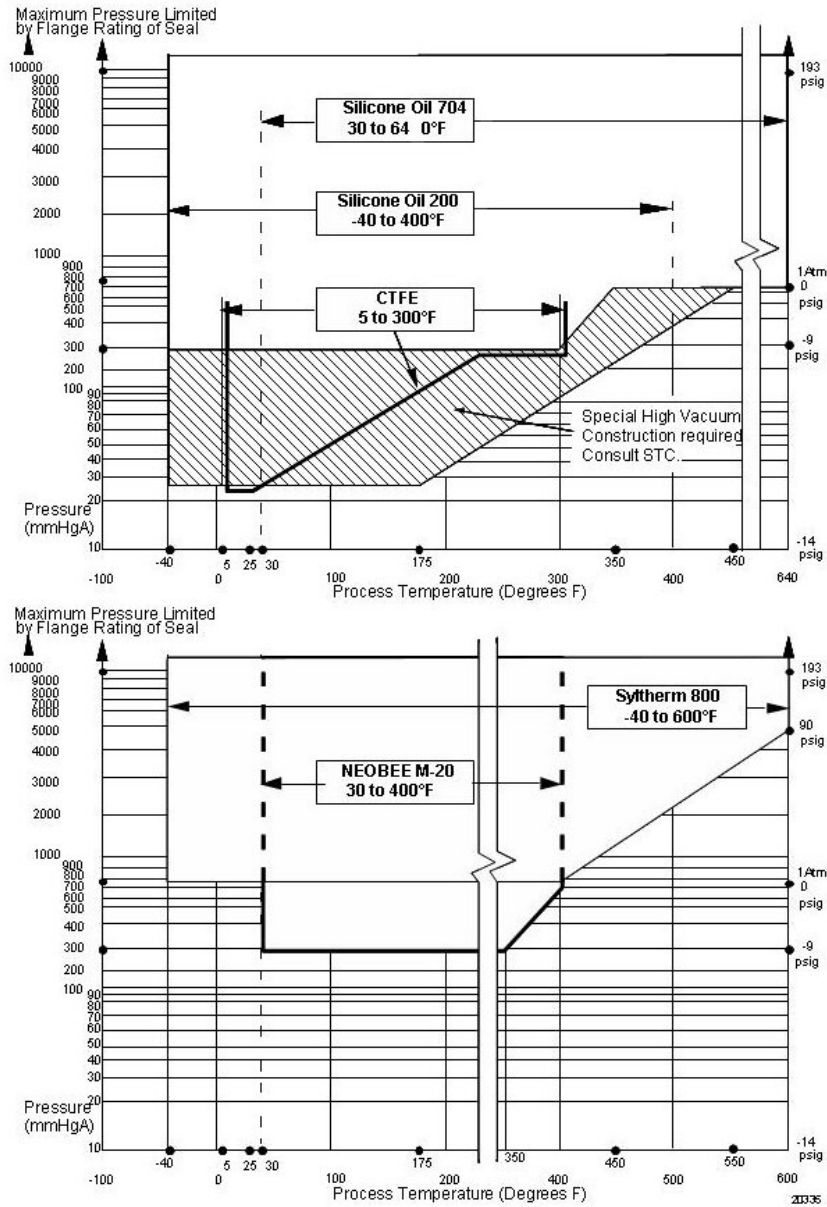


Figure 4 - STR700 Remote Seals operable limits for pressure vs. temperature

Performance Under Rated Conditions – All Models

Parameter	Description									
Analog Output Digital Communications:	Two-wire, 4 to 20 mA (HART & DE Transmitters only) Honeywell DE, HART protocol All transmitters, irrespective of protocol have polarity insensitive connection.									
HART & DE Output Failure Modes (NAMUR for DE Units requires selecting display and configuration buttons or factory configuration)	<table><thead><tr><th></th><th>Honeywell Standard</th><th>NAMUR NE 43 Compliance</th></tr></thead><tbody><tr><td>Normal Limits:</td><td>3.8 – 20.8 mA</td><td>3.8 – 20.5 mA</td></tr><tr><td>Failure Mode:</td><td>≤ 3.6 mA and ≥ 21.0 mA</td><td>≤ 3.6 mA and ≥ 21.0 mA</td></tr></tbody></table>		Honeywell Standard	NAMUR NE 43 Compliance	Normal Limits:	3.8 – 20.8 mA	3.8 – 20.5 mA	Failure Mode:	≤ 3.6 mA and ≥ 21.0 mA	≤ 3.6 mA and ≥ 21.0 mA
	Honeywell Standard	NAMUR NE 43 Compliance								
Normal Limits:	3.8 – 20.8 mA	3.8 – 20.5 mA								
Failure Mode:	≤ 3.6 mA and ≥ 21.0 mA	≤ 3.6 mA and ≥ 21.0 mA								
Supply Voltage Effect	0.005% span per volt									
Transmitter Turn on Time (includes power up & test algorithms)	HART or DE: 2.5 seconds									
Damping Time Constant	HART: Adjustable from 0 to 32 seconds in 0.1 increments. Default: 0.50 seconds DE: Discrete values 0, .16, .32, .48, 1, 2, 4, 8, 16, 32 seconds. Default: 0.48 seconds									
Electromagnetic Compatibility	IEC 61326-3-1									
Lightning Protection Option	Leakage Current: 10uA max @ 42.4VDC 93C Impulse rating: 8/20us 5000A (>10 strikes) 10000A (1 strike min.) 10/1000us 200A (> 300 strikes)									

Materials Specifications (see model selection guide for availability/restrictions with various models)

Parameter	Description
Process Interface	See Model Selection Guide for Material Options for desired seal type.
Seal Barrier Diaphragm	316L Stainless Steel, Monel®, Hastelloy® C, Tantalum
Seal Gasket Materials	Klinger C-14401 (non-asbestos), Graphite, Teflon®
Mounting Bracket	Carbon Steel (Zinc-Chromate plated) or 304 Stainless Steel or 316 Stainless Steel.
Fill Fluid (Meter Body)	Silicone 200 S.G. @ 25°C = 0.94 CTFE (Chlorotrifluoroethylene) S.G. @ 25°C = 1.89 Silicone 704 S.G. @ 25°C = 1.07 NEOBEE M-20® S.G. @ 25°C = 0.93
Fill Fluid (Secondary)	Silicone 200 S.G. @ 25°C = 0.94 CTFE (Chlorotrifluoroethylene) S.G. @ 25°C = 1.89 Silicone 704 S.G. @ 25°C = 1.07 Syltherm 800® S.G. @ 25°C = 0.90 NEOBEE M-20® S.G. @ 25°C = 0.93
Electronic Housing	Pure Polyester Powder Coated Low Copper (<0.4%) – Aluminum. Meets Type 4X / IP66 / IP67. All stainless-steel housing is optional. Cover O ring material: Silicone.
Capillary Tubing	Material: Armored Stainless Steel or PVC Coated Armored Stainless Steel. Length: 5, 10, 15, 20, 25, and 35 feet (1.5, 3, 4.6, 6.1, 7.5, and 10.7 meters). A 2-inch (51 millimeter) S.S. close-coupled nipple is also available. See Model Selection Guide. Refer to Figure 5 for guide to maximum capillary length vs. diaphragm diameter. Note: The minimum span is the higher of the value from the table above or the value defined under the Performance Conditions for the range transmitter.
Wiring	Accepts up to 16 AWG (1.5 mm diameter)
Mounting	See Figure 6 - 8
Dimensions	Transmitter: See Figures 7a and 7b. Seal: See Figure 8 through Figure 15
Net Weight	Transmitter: 8.3 pounds (3.8 Kg). With Aluminum Housing. Total weight is dependent on the seal.

NOTE: Pressure transmitters that are part of safety equipment for the protection of piping (systems) or vessel(s) from exceeding allowable pressure limits, (equipment with safety functions in accordance with Pressure Equipment Directive 97/23/EC article 1, 2.1.3), require separate examination.

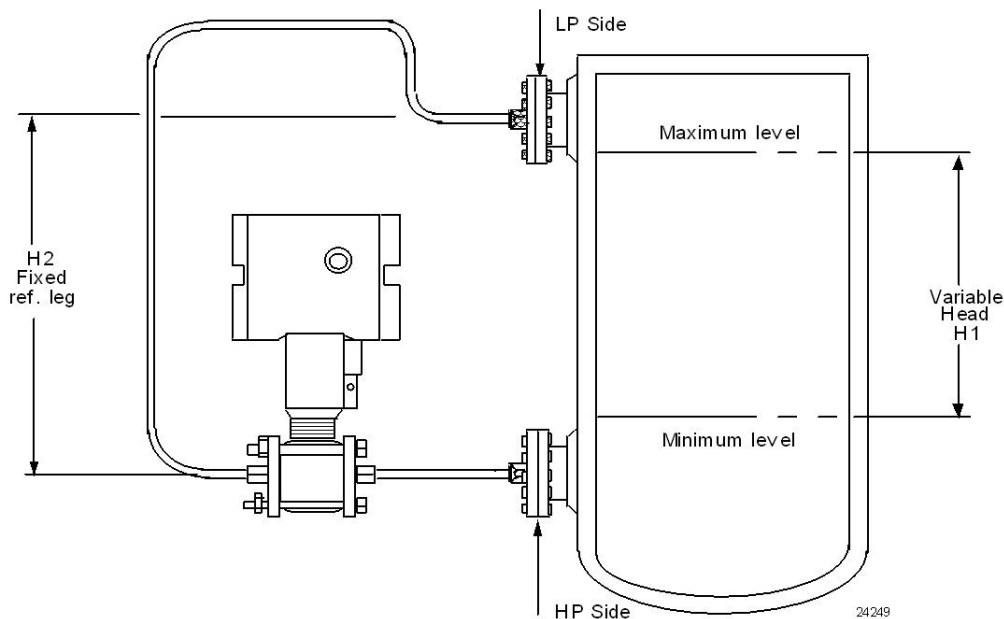
Minimum recommended span for STR73D Transmitter with two Seals

Diaphragm Size (Inch)	Capillary Length (Feet)						Maximum Capillary Length (Feet)
	5	10	15	20	25	35	
1.9	15 psi	20 psi	25 psi	-	-	-	15
2.4	5.4 psi	7.2 psi	9.0 psi	10.8 psi	12.6 psi	14.4 psi	35
2.9	1.8 psi	2.7 psi	3.6 psi	4.5 psi	5.4 psi	7.2 psi	35
3.5	0.9 psi	0.9 psi	0.9 psi	1.0 psi	1.2 psi	1.4 psi	35
4.1	0.9 psi	0.9 psi	0.9 psi	0.9 psi	0.9 psi	1.1 psi	35

Minimum recommended span for STR74G and STR73D Transmitter with one Remote Seal

Diaphragm Size (Inch)	Direct Mount	Capillary Length (Feet)						Maximum Capillary Length (Feet)
		5	10	15	20	25	35	
1.9	25 psi	30 psi	40 psi	50 psi	-	-	-	15
2.4	10 psi	15 psi	20 psi	25 psi	30 psi	35 psi	50 psi	35
2.9	8 psi	9 psi	10 psi	11 psi	12 psi	13 psi	15 psi	35
3.5	2 psi	2 psi	3 psi	4 psi	5 psi	6 psi	8 psi	35
4.1	0.9 psi	0.9 psi	1 psi	2 psi	3 psi	3.5 psi	5 psi	35

Note: The minimum span is the higher of the higher of the value from the table above or the value defined under the Performance Conditions for the range transmitter.



NOTE: Lower flange seal should not be mounted over 22 feet below or above the transmitter for silicone fill fluid (11 feet for CTFE fill fluid) with tank at one atmosphere. The combination of tank vacuum and high pressure capillary head effect should not exceed 9 psi vacuum (300 mmHg absolute).

Consult Honeywell for installation of STR73D.

Figure 5— Typical Maximum capillary length and diaphragm size chart

Reference Dimensions Horizontal Mounting

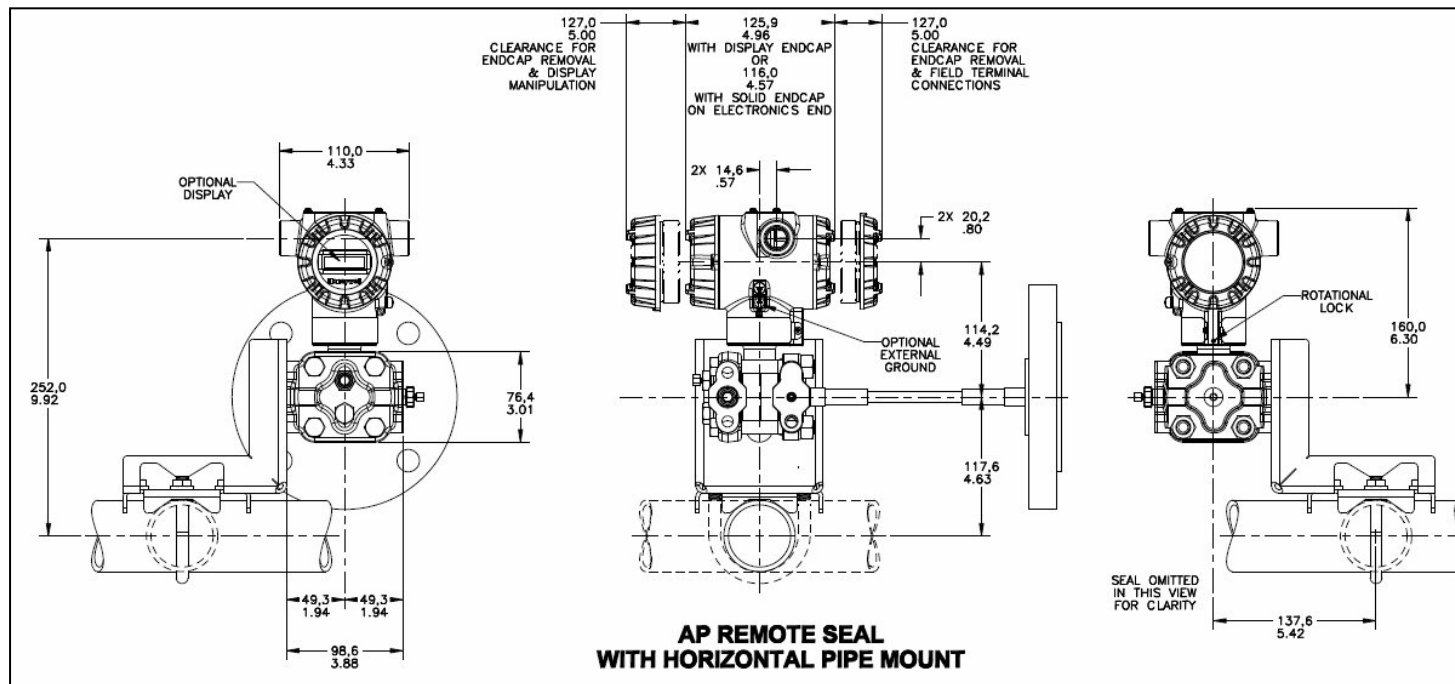
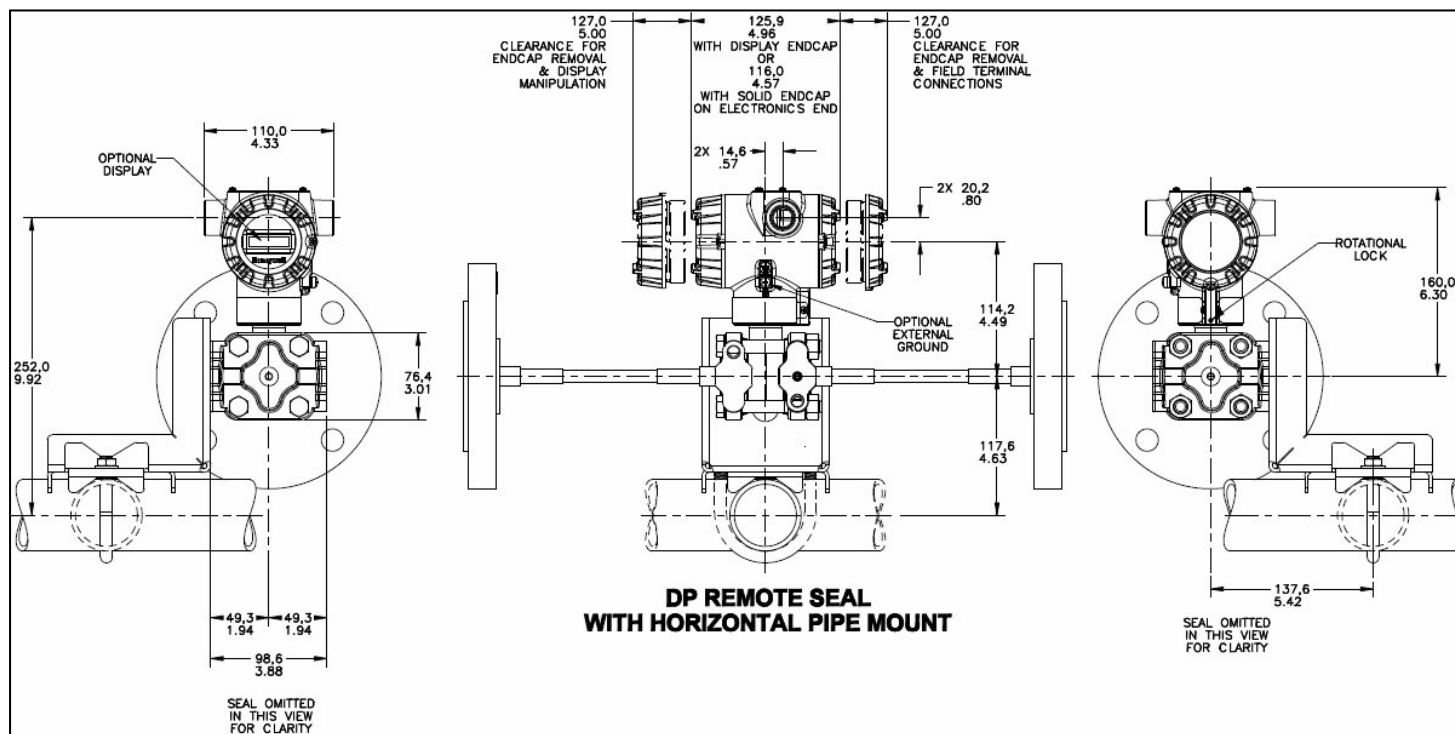


Figure 6 - STR700 transmitter with remote diaphragm seals shown mounted on a tank

Reference Dimensions Horizontal Mounting (cont'd)

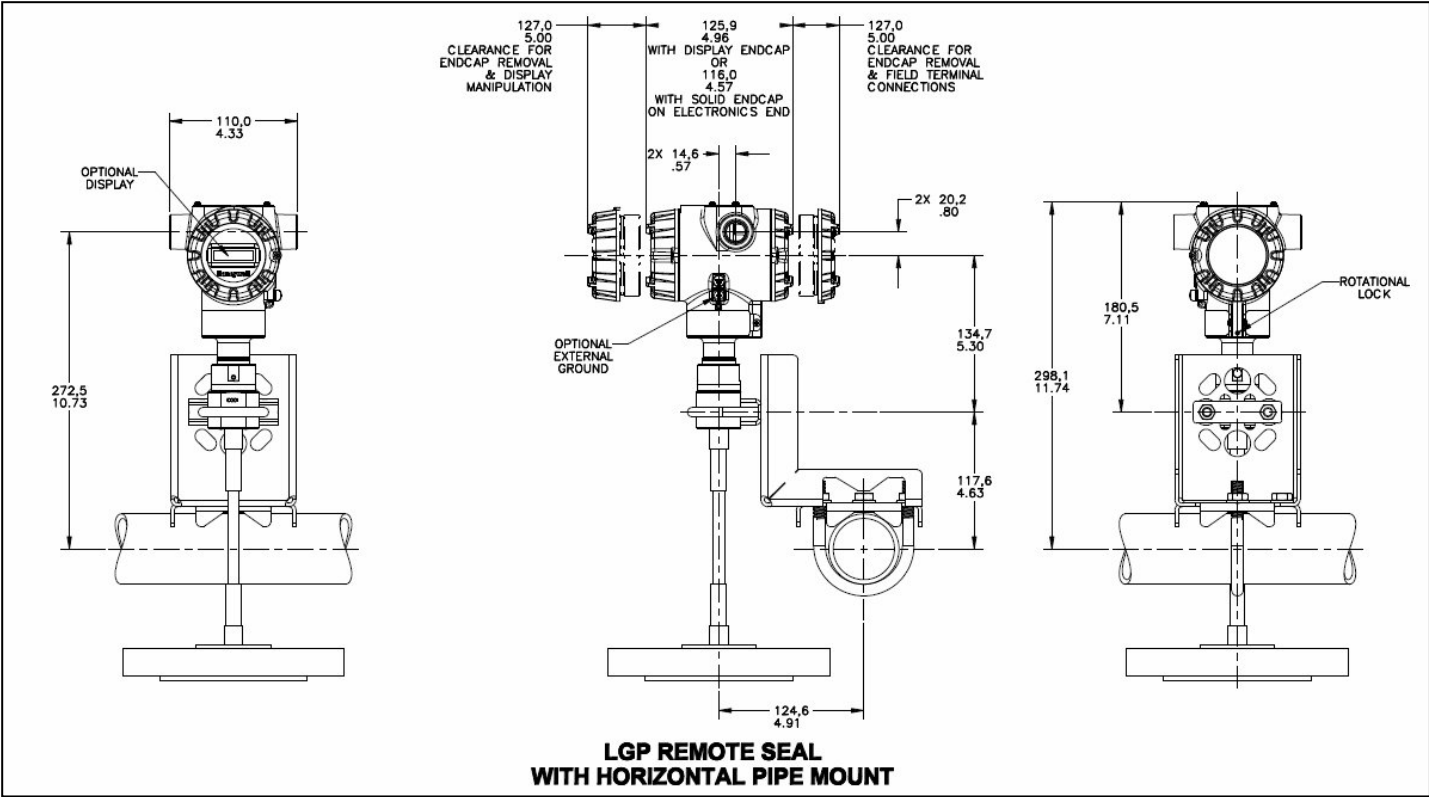
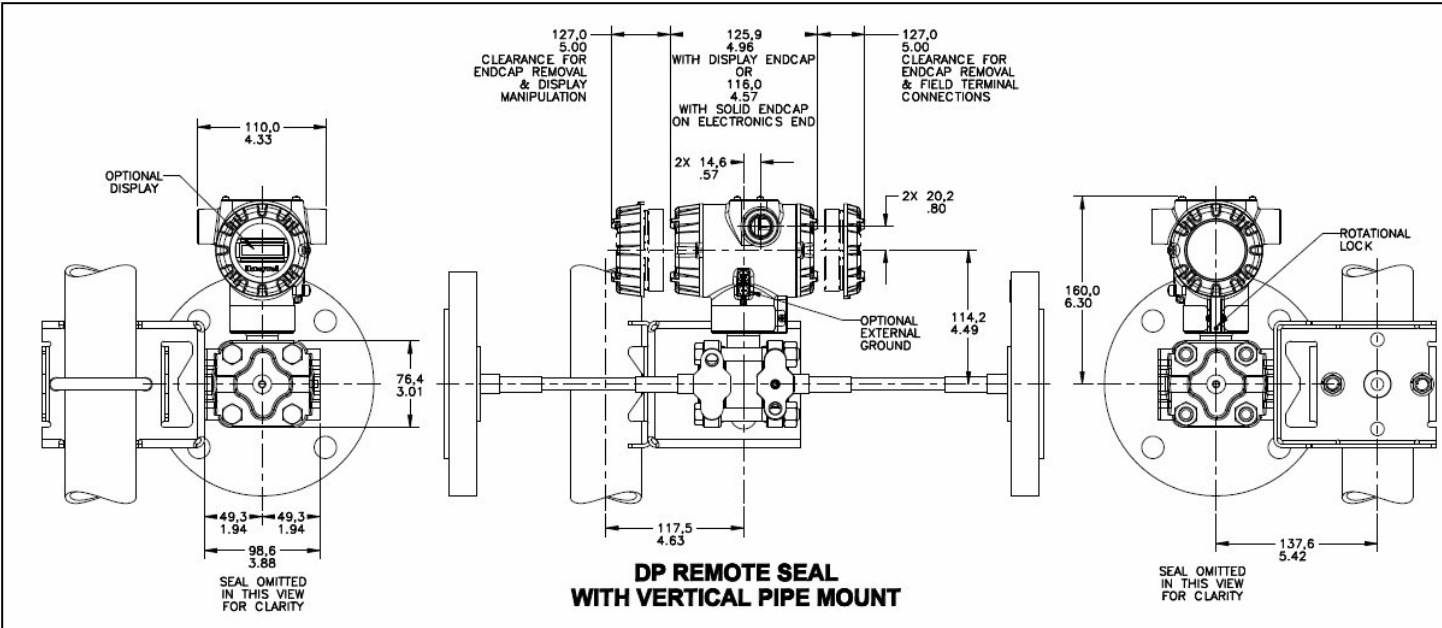


Figure 7 — Approximate horizontal mounting dimensions for Remote Seal Transmitter

Reference Dimensions Vertical Mounting



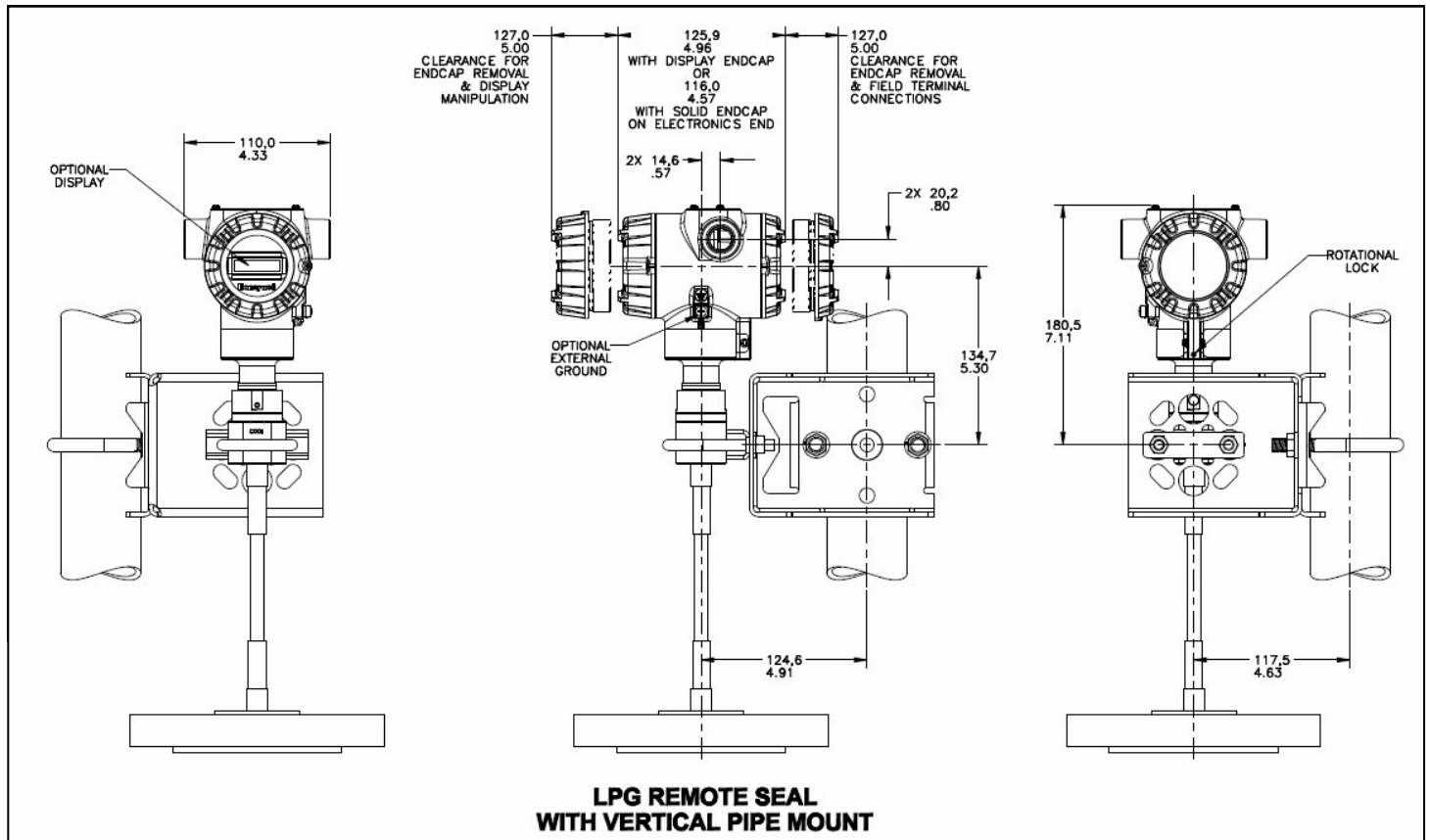
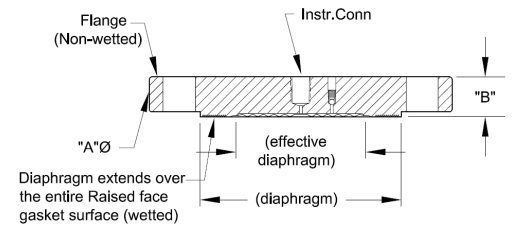
Reference Dimensions Vertical Mounting (cont'd)

Figure 8 — Approximate vertical mounting dimensions for Remote Seal Transmitter

Reference Dimensions (cont'd)

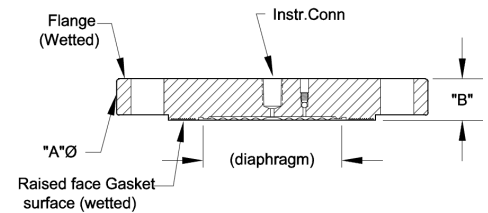
Flush Flanged Seal Dimensions

Type	ANSI/DIN Rating	Flange Material	Wetted Materials		Construction See figure		
			Diaphragm	Body		A	B
Flush Flanged Seal	3" Class 150#	CS	SS Hastelloy C Hastelloy C Monel Tantalum	SS SS Hastelloy C Monel SS	D C D D C	7.5	2.06
		SS	SS Hastelloy C Hastelloy C Monel Tantalum	N/A SS Hastelloy C Monel SS	B A D D C	7.50	0.94 2.06
	3" Class 300#	CS	SS Hastelloy C Hastelloy C Monel Tantalum	SS SS Hastelloy C Monel SS	D C D D C	8.25	2.25
		SS	SS Hastelloy C Hastelloy C Monel Tantalum	N/A SS Hastelloy C Monel SS	B A D D C	8.25	1.12 2.25
	3" Class 600#	CS	SS Hastelloy C Hastelloy C Monel Tantalum	SS SS Hastelloy C Monel SS	D C D D C	8.25	2.25
		SS	SS Hastelloy C Hastelloy C Monel Tantalum	N/A SS Hastelloy C Monel SS	B A D D C	8.25	1.5 2.25
	DN80-PN40	CS	SS Hastelloy C Hastelloy C Monel Tantalum	SS SS Hastelloy C Monel SS	D C D D C	7.87	1.95
		SS	SS Hastelloy C Hastelloy C Monel Tantalum	N/A SS Hastelloy C Monel SS	B A D D C	7.87	0.94 1.95



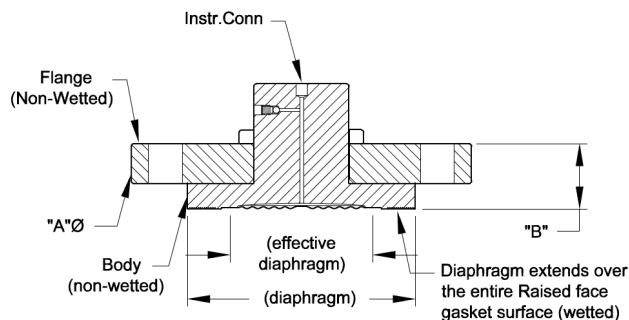
Configuration "HS"

Figure A



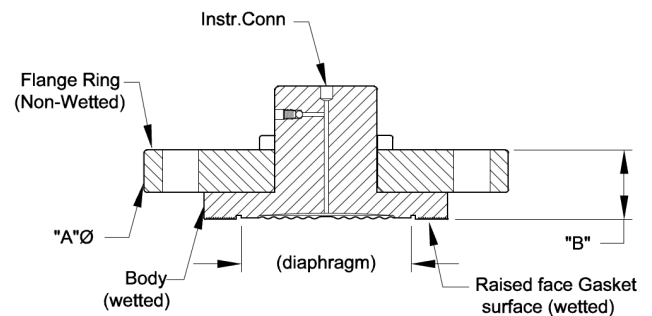
Configuration "HT"

Figure B



Configuration "IS"

Figure C



Configuration "IT"

Figure D

Figure 9 - Seal Dimensions (Flush Flanged)

Reference Dimensions (cont'd)

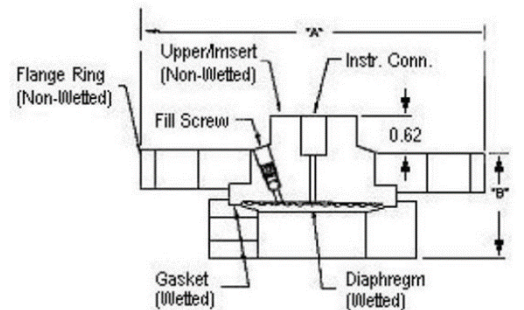
Flush Flanged Seal with Lower

Type	ANSI/DIN Rating	Size	Dimension	2.4" Diaphragm (52 mm effective)	2.9" Diaphragm (64 mm effective)	4.1" Diaphragm (35 mm effective)
Flush Flanged Seal with Lower	Class 150#	½"	A	3.74	N/A	5.91
			B0	1.55		2.21
			B1	1.55		2.21
			B2	1.70		2.21
		1"	A	4.33		5.91
			B0	1.33		2.05
			B1	1.33		2.05
			B2	1.48		2.05
		1-1/2"	A	5.00	4.92	5.91
			B0	1.33	2.33	1.97
			B1	1.33	2.33	1.97
			B2	1.48	2.83	1.97
		2"	A	N/A	6.00	5.91
			B0		2.36	1.89
			B1		2.36	1.89
			B2		2.86	1.89
		3"	A		N/A	7.50
			B0			2.55
			B1			2.55
			B2			3.05
	Class 300#	½"	A	3.74	N/A	5.91
			B0	1.55		2.21
			B1	1.55		2.21
			B2	1.70		2.21
		1"	A	4.92	N/A	5.91
			B0	1.33		2.05
			B1	1.33		2.05
			B2	1.48		2.05
		1-1/2"	A	6.12	6.10	6.10
			B0	1.48	2.45	2.21
			B1	1.48	2.45	2.21
			B2	1.63	2.95	2.21
		2"	A	N/A	N/A	6.50
			B0			2.49
			B1			2.49
			B2			2.99
		3"	A			8.25
			B0			2.74
			B1			2.74
			B2			3.24
	Class 600#	½"	A	3.74	N/A	5.91
			B0	1.71		2.36
			B1	1.71		2.35
			B2	1.87		2.35
		1"	A	4.88	N/A	5.91
			B0	2.36		2.26
			B1	2.36		2.26
			B2	2.86		2.26
		1-1/2"	A	6.12	6.12	6.10
			B0	1.33	2.55	2.21
			B1	1.33	2.55	2.21
			B2	1.48	3.05	2.21
		2"	A	N/A	N/A	6.50
			B0			2.68
			B1			2.68
			B2			3.18
		3"	A			8.25
			B0			2.93
			B1			2.93
			B2			3.43

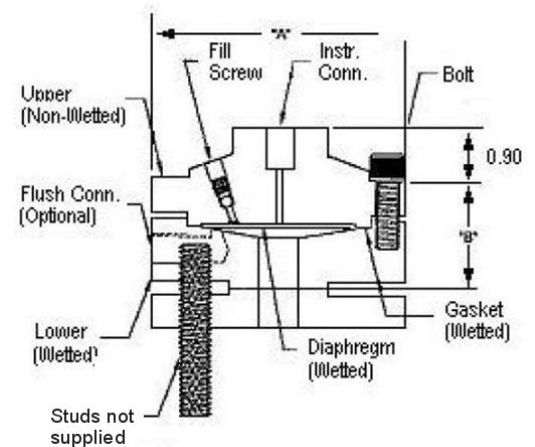
B0 Without Flush

B1 B Dimension with 1/4 NPT Flushing Connection

B2 B Dimension with 1/2 NPT Flushing Connection



Flush Flanged Seal with Lower



Flush Flanged Seal with Lower

Note: 0.90 dimension is 0.70 for 4.1" Dia Diaphragm

Figure 10- Seal Dimension (Flush Flanged)

Reference Dimensions (cont'd)

Flanged Seal with Extended Diaphragm

Type	ANSI/DIN Rating	Dimension	2.8" Diaphragm Dia. (in.)	3.5" Diaphragm Dia. (in.)
Flanged Seal with Extended Diaphragm	3" Class 150#	A	7.50	-
		B	0.94	-
		C	2.80	-
	3" Class 300#	A	8.25	-
		B	1.12	-
		C	2.80	-
	DIN DN80-PN40	A	7.87	-
		B	0.94	-
		C	2.80	-
	4" Class 150#	A	-	9.00
		B	-	0.94
		C	-	3.70
	4" Class 300#	A	-	10.00
		B	-	1.25
		C	-	3.70
	DIN DN100-PN40	A	-	9.25
		B	-	0.94
		C	-	3.70

Designed to meet with schedule 40 pipe

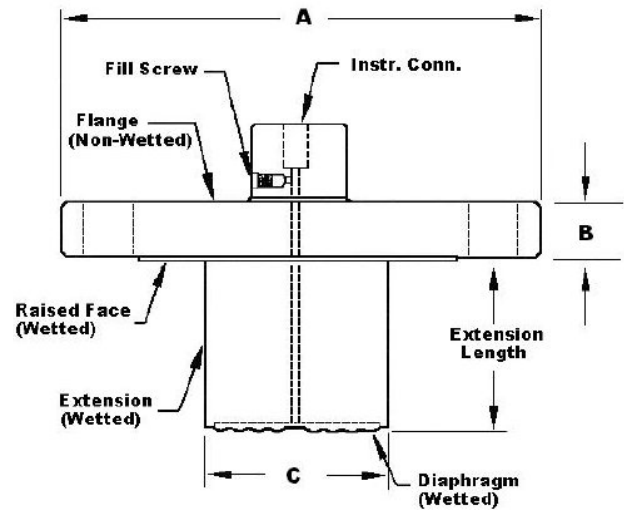


Figure 11 — Seal Dimensions (Extended Diaphragms)

Pancake Seal

Type	ANSI/DIN	Dimension	3.5" Diaph. (in.)
Pancake Seal	Class 150#, 300#, 600# DN80-PN40	A	5.00
		B	1.08

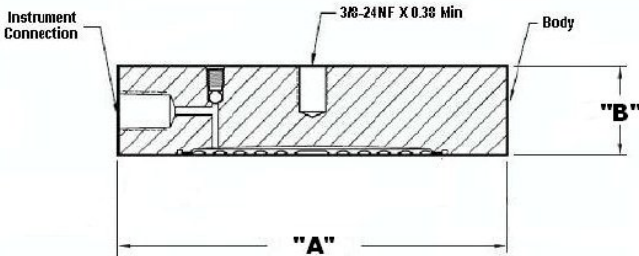


Figure 12 — Seal Dimensions (Pancake)

Chemical Tee "Taylor Wedge" Seal

Type	Size	Dimension	3.5" Diaph. (in.)
Chemical Tee "Taylor Wedge" Seal	750 psi	A	5.00
		B	0.50

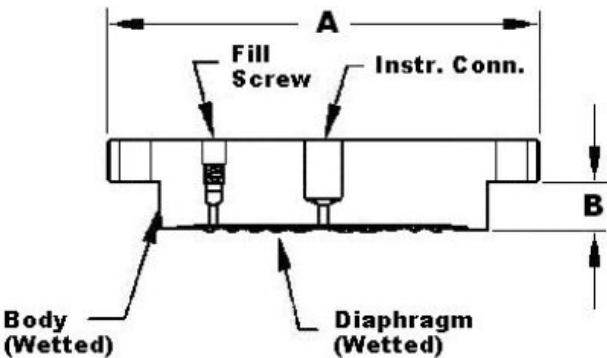


Figure 13 — Seal Dimensions (Chemical TEE "Taylor Wedge" Seals)

Seal with Threaded Process Connection

Type	Size	Dimensions	2.4" Diaphragm (52 mm effective)	4.1" Diaphragm (35 mm effective)
Threaded Process Conn. Seal	1/4" and 1/2"	A	3.74	5.90
		B0	2.20	2.50
		B1	2.20	2.50
		B2	3.50	2.75
	3/4" and 1"	A	3.74	5.90
		B0	2.40	2.80
		B1	2.40	2.80
		B2	3.70	3.05

B0 Without Flush

B1 B Dimension with 1/4 NPT Flushing Connection

B2 B Dimension with 1/2 NPT Flushing Connection

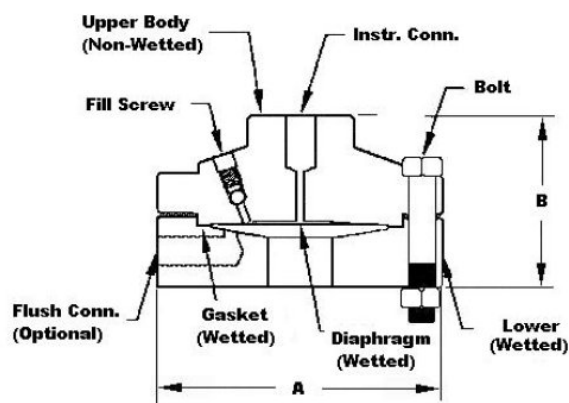


Figure 14— Seal Dimensions (Threaded Process Connection Seals)

Sanitary Seal

Type	Size	Dimension	1.9" Diaphragm Dia. (in.)	2.4" Diaphragm Dia. (in.)	2.9" Diaphragm Dia. (in.)	4.1" Diaphragm Dia. (in.)
Sanitary Seal	2"	A	2.50	-	-	-
		B	1.42	-	-	-
	2- 1/2"	A	-	3.00	-	-
		B	-	1.28	-	-
	3"	A	-	-	3.57	-
		B	-	-	1.38	-
	4"	A	-	-	-	4.68
		B	-	-	-	1.60

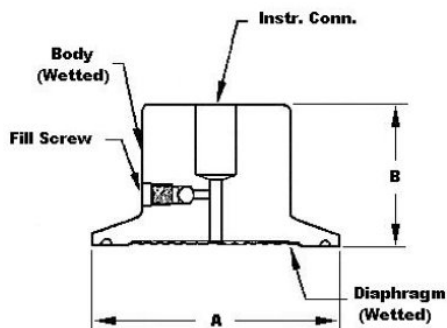


Figure 15— Seal Dimensions (Sanitary Seals)

Saddle Seal

Type	Size	Dimensions	2.4" Diaphragm (52 mm effective)
Saddle Seal	3"	A B	3.50 1.90
	4" or larger	A B	3.50 1.90

Note: Specify 6 or 8 bolt pattern

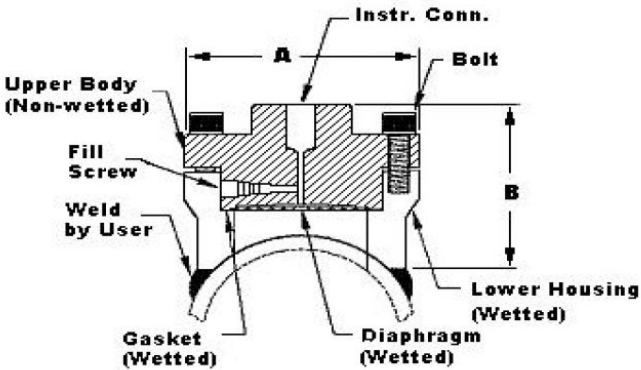


Figure 16— Seal Dimensions (3" Saddle Seal)

Calibration Ring

Type	Size	Rating	Dimension	1/4 NPT	1/2 NPT
Calibration Ring	3"	150# / 800#	A	5.00	5.00
			B	1.00	1.50
			C	3.00	3.00

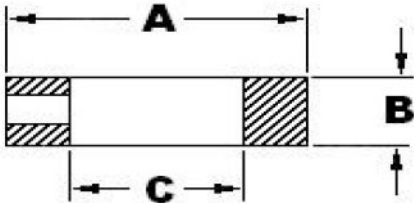


Figure 17— Calibration Ring

Communications Protocols & Diagnostics

HART Protocol

Version:

HART 7

Honeywell Digitally Enhanced (DE)

DE is a Honeywell proprietary protocol which provides digital communications between Honeywell DE enabled field devices and Hosts.

Standard Diagnostics

ST 700 top level diagnostics are reported as either critical or non-critical and are readable via the DD/DTM/FDI tools or integral display. All critical diagnostics will appear on the Advanced and Standard integral displays, and some non-critical diagnostics will also appear on the Advanced integral display. Some of the diagnostics are listed below.

Critical Diagnostics

- Electronics Module Fault.
- Meter body Memory Corruption.
- Config Data Corruption.
- Electronics Module Diagnostics Failure.
- Meter body Critical Failure.
- Sensor Communication Timeout.

Non-Critical Diagnostics

- Electronics Module Fault.
- Display Failure.
- Electronics Module Comm Failure.
- Meter body Excess Correct.
- Sensor Over Temperature.
- Fixed Current Mode.
- PV Out of Range.
- No DAC Compensation.
- Tamper Attempt Alarm.

Refer to the product user manual for comprehensive list of diagnostics and details.

Hazardous Areal Certifications:

MSG CODE	AGENCY	TYPE OF PROTECTION	COMM. OPTION	ELECTRICAL PARAMETERS	AMBIENT TEMP (Ta)
A	FM Approvals™ USA	Explosionproof: Class I, Division 1, Groups A, B, C, D; Dust Ignition Proof: Class II, III, Division 1, Groups E, F, G; T6..T5 Class I, Zone 0/1, AEx db IIC T6..T5 Ga/Gb Class II, Zone 21, AEx tb IIIC T95° Db	All	Note 1	T5: -50 °C to 85°C T6: -50 °C to 65°C
		Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D, E, F, G: T4 Class I, Zone 0, AEx ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50 °C to 70°C
			Foundation Fieldbus	Note 2b	-50 °C to 70°C
		Nonincendive: Class I, Division 2, Groups A, B, C, D locations, T4 Class I, Zone 2, AEx nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50 °C to 85°C
		Enclosure: Type 4X/ IP66/ IP67	All	All	-
		STANDARDS: FM Class 3600:2011; FM Class 3610: 2010; FM Class 3611: 2004; FM Class 3615: 2006; FM Class 3616: 2011; FM Class 3810: 2005; ANSI/ISA 60079-0: 2013; ANSI/UL 60079-1: 2015; ANSI/UL 60079-11: 2014; ANSI/ISA 60079-15: 2012; ANSI/UL 60079-26: 2017; ANSI/UL 60079-31: 2015; ANSI/NEMA 250: 2003; ANSI/ IEC 60529: 2004			
B	Canadian Standards Association (CSA) USA and Canada	Explosion Proof: Class I, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1, T6..T5 Class I Zone 1 AEx db IIC T6..T5 Ga/Gb Ex db IIC T6..T5 Ga/Gb Zone 22 AEx tb IIIC T95° Db Ex tb IIIC T95° Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Class I, II, III, Division 1, Groups A, B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1, T4 Class I Zone 0, AEx ia IIC T4 Ga Class I Zone 2, AEx ic IIC T4 Gc Ex ia IIC T4 Ga Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Nonincendive: Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III, Division 2, T4 Class I Zone 2 AEx nA IIC T4 Gc Ex nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C to 85°C
		Enclosure: Type 4X/ IP66/ IP67	All	All	-

MSG CODE	AGENCY	TYPE OF PROTECTION	COMM. OPTION	ELECTRICAL PARAMETERS	AMBIENT TEMP (Ta)
		STANDARDS: CSA C22.2 No. 0-10; CSA C22.2 No. 94-M91; CSA C22.2 No. 25-1966; CSA C22.2 No. 30-M1986; CSA C22.2 No. 142-M1987; CSA C22.2 No. 157-92; CSA C22.2 No. 213-M1987; CSA-C22.2 No. 60529:05; CSA-C22.2 No. 60079-0:11; CSA-C22.2 No. 60079-1:11; CSA-C22.2 No. 60079-11:11; CSA-C22.2 No. 60079-15:12; CSA-C22.2 No. 60079-31:12; ISA 12.12.01-2010; ISA 60079-0: 2009; ISA 60079-11: 2011; ISA 60079-15: 2009; ISA 60079-26: 2008; ISA-60079-27:2007 (12.02.04)-2006 (R2011); UL 913 Ed. 6; UL 916:1998; ANSI/ISA-12.27.01-2011			
C	ATEX	Flameproof: SIRA 12ATEX2233X  II 1/2 G Ex db IIC T6..T5 Ga/Gb II 2 D Ex tb IIIC T95°C...T120°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: SIRA 12ATEX2233X  II 1 G Ex ia IIC T4 Ga II 2 D Ex ia IIIC T125°C Db FISCO Field Device (Only for FF Option) II 1 G Ex ia IIC T4 Ga	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Zone 2, Increase Safety: SIRA 12ATEX4234X  II 3 G Ex ec IIC T4 Gc	4-20 mA / DE/ HART/	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: SIRA 12ATEX4234X  II 3 G Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) II 3 G Ex ic IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
		Enclosure: IP66/ IP67	All	All	-
	STANDARDS: EN 60079-0: 2018; EN 60079-1: 2014; EN 60079-7: 2015+A1: 2018; EN 60079-11: 2012; EN 60079-26: 2015; EN 60079-31: 2014				
	UKEX	Flameproof: CSAE 22UKEX1021X  II 1/2 G Ex db IIC T6..T5 Ga/Gb II 2 D Ex tb IIIC T95°C...T120°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: CSAE 22UKEX1021X  II 1 G Ex ia IIC T4 Ga II 2 D Ex ia IIIC T125°C Db FISCO Field Device (Only for FF Option) II 1 G Ex ia IIC T4 Ga	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Zone 2, Increase Safety: CSAE 22UKEX1008X  II 3 G Ex ec IIC T4 Gc	4-20 mA / DE/ HART/	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: CSAE 22UKEX1008X  II 3 G Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) II 3 G Ex ic IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
	Enclosure: IP66/ IP67		All	All	-

MSG CODE	AGENCY	TYPE OF PROTECTION	COMM. OPTION	ELECTRICAL PARAMETERS	AMBIENT TEMP (Ta)
		STANDARDS: EN 60079-0: 2018; EN 60079-1: 2014; EN 60079-7: 2015+A1: 2018; EN 60079-11: 2012; EN 60079-26: 2015; EN 60079-31: 2014			
D	IECEX World	Flameproof: IECEx SIR 12.0100X Ex db IIC T6..T5 Ga/Gb Ex tb IIIC T95°C...T120°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: IECEx SIR 12.0100X Ex ia IIC T4 Ga Ex ia IIIC T125°C FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Zone 2, Increase Safety: IECEx SIR 12.0100X Ex ec IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: IECEx SIR 12.0100X Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) Ex ic IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
		Enclosure: IP66/ IP67	All	All	-
		STANDARDS: IEC 60079-0: 2017; IEC 60079-1: 2014; IEC 60079-7: 2017; IEC 60079-11: 2011; IEC 60079-26: 2014; IEC 60079-31: 2013			

E	SAEx South Africa	Flameproof : Ex d IIC T6...T5 Ga/Gb Ex tb IIIC T95°C...T120°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Ex ia IIC Ga T4 FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Zone 2, Increase Safety: II 3 G Ex ec IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) Ex ic IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
		Enclosure: IP66/ IP67	All	All	-
F	INMETRO Brazil	Flameproof: Ex db IIC T6..T5 Ga/Gb Ex tb IIIC T95°C...T120°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2a	-50°C TO 70°C
			Foundation Fieldbus	Note 2b	-50°C TO 70°C
		Zone 2, Increase Safety: II 3 G Ex ec IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) Ex ic IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
		Enclosure : IP 66/67	All	All	-
G	NEPSI CHINA	Flameproof: Ex db IIC T6..T5 Ga/Gb Ex tb IIIC T 95°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Zone 2, Increase Safety: II 3 G Ex ec IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: Ex ic IIC T4 Gc FISCO Field Device (Only for FF Option) Ex ic IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
		Enclosure : IP 66/67	All	All	-
H	KOSHA	Flameproof :	All	Note 1	T4: -50°C TO 85°C

	Korea	Ex d IIC T4, T5, T6 Ex tD A21 IP66/IP67 T95°C...T120°C			T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Ex ia IIC T4	4-20 mA / DE/ HART	Note 2	Ta= -50 °C to 70°C
			Foundation Fieldbus	Note 2	Ta= -50 °C to 70°C
		Enclosure: IP66/ IP67	All	All	-
I	EAC Russia, Belarus and Kazakhstan	Flameproof: Ga/Gb Ex d IIC T6..T5 Ex tb IIIC Db T 85°C	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Ga Ex ia IIC T4 X FISCO Field Device (Only for FF Option) Ga Ex ia IIC T4 X	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Zone 2, Non Sparking: 2 Ex nA IIC T4 Gc X	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C TO 85°C
		Zone 2, Intrinsically Safe: Ga Ex ic IIC T4 X FISCO Field Device (Only for FF Option) 2 Ex ic IIC T4 Gc X	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 2	-50°C TO 85°C
		Enclosure : IP 66/67	All	All	
J	CCoE INDIA	Flameproof: Ex d IIC T6..T5 Ga/Gb	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) Ex ia IIC T4 Ga; Ex ic IIC T4 Gc	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Non Sparking Ex nA IIC T4 Gc	4-20 mA / DE/ HART/ Foundation Fieldbus	Note 1	-50°C TO 85°C
		Enclosure: IP66/ IP67	All	All	-
K	UATR UKRAINE	Flameproof: II 1/2 G Ex db IIC T6..T5 Ga/Gb II 2 D Ex tb IIIC T95°C...T120°C Db	All	Note 1	T5: -50°C TO 85°C T6: -50°C TO 65°C
		Intrinsically Safe: II 1 G Ex ia IIC T4 Ga FISCO Field Device (Only for FF Option) II 1 G Ex ia IIC T4 Ga	4-20 mA / DE/ HART	Note 2	-50°C TO 70°C
			Foundation Fieldbus	Note 2	-50°C TO 70°C
		Enclosure: IP66/ IP67	All	All	-

Application Data

Liquid Level: Closed Tank

Determine the minimum and maximum pressure differentials to be measured (Figure 18).

$$\begin{aligned} P_{\text{Min}} &= (SG_p \times a) - (SG_f \times d) \\ &= \text{LRV when HP at bottom of tank} \\ &= -\text{URV when LP at bottom of tank} \end{aligned}$$

$$\begin{aligned} P_{\text{Max}} &= (SG_p \times b) - (SG_f \times d) \\ &= \text{URV when HP at bottom of tank} \\ &= -\text{LRV when LP at bottom of tank} \end{aligned}$$

Where:

minimum level at 4mA
maximum level at 20 mA

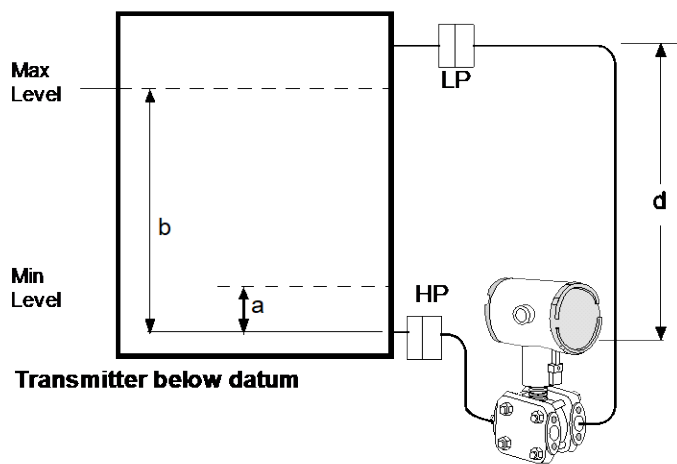
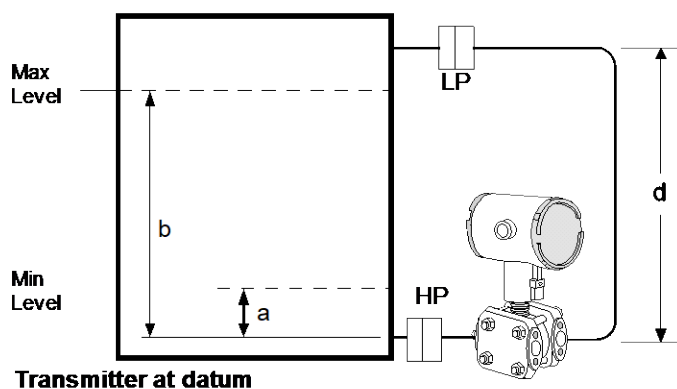
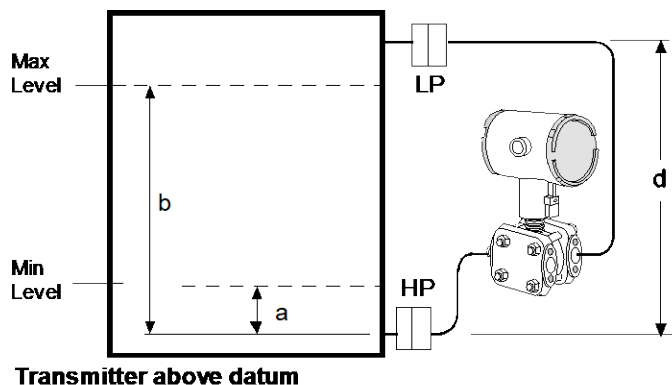
a = distance between bottom tap and minimum level

b = distance between bottom tap and maximum level

d = distance between taps

SG_f = Specific Gravity of capillary fill fluid (See Page 6 "Material Specifications" for values.)

SG_p = Specific Gravity of process fluid



24253

Figure 18- Closed tank liquid level measurement distance

Application Data (Cont'd)

Density or Interface*

Calculate the minimum and maximum pressure differentials to be measured (Figure 19).

$$P_{\min} = (SG_{\min} - SG_f) \times (d);$$

minimum density, 4mA output

$$P_{\max} = (SG_{\max} - SG_f) \times (d);$$

maximum density, 20mA output

Where:

d = distance between the taps

SG_{max} = maximum Specific Gravity

SG_{min} = minimum Specific Gravity

SG_f = Specific Gravity of capillary fill fluid (See Page 6 "Material Specifications" for values.)

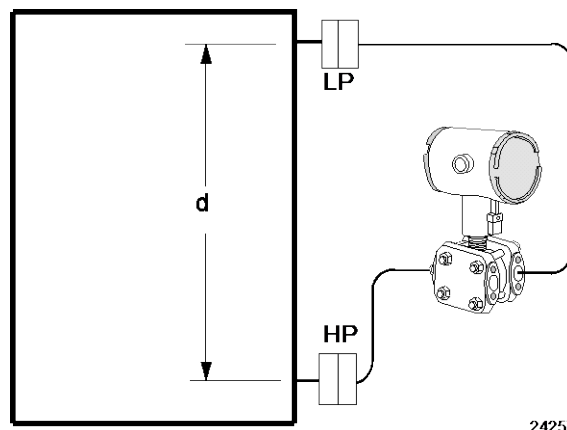


Figure 19- Density, direct acting transmitter configuration

Seal Configurations



Figure 20—Flush Flange Seals

Flush Flange Seals can be used with differential, gauge and absolute pressure transmitters and are available with 3" ANSI Class 150, ANSI Class 300 and DIN DN80-PN40 process connections. Flush flange seals can also be provided with Lowers. Lowers are essentially calibration rings, which allow flushing connections if needed.



Figure 21 — Flange Seal with Extended Diaphragm

Flange Seal with Extended Diaphragm can be used with differential, gauge and absolute pressure transmitters and are available with 3" and 4" ANSI Class 150, ANSI Class

300, DIN DN80-PN40 and DIN DN100-PN40 process connections. 2", 4" and 6" extension lengths are available



Figure 22—Pancake Seals

Pancake Seals can be used with differential, gauge and absolute pressure transmitters and are available with 3" ANSI Class 150, 300 and 600 process connections.



Figure 23— Chemical Tee "Taylor" Wedge

Chemical Tee “Taylor” Wedge can be used with differential pressure transmitters and are available with Taylor Wedge 5” O.D. process connection.

Seal Configurations (cont'd)



Figure 24— Seals with Threaded Process Connections

Seals with Threaded Process Connections can be used with differential, gauge and absolute pressure transmitters and are available with ½”, ¾” and 1” NPT Female process connections.



Figure 25 — Sanitary Seals

Sanitary Seals can be used with differential, gauge and absolute pressure transmitters and are available with 3” and 4” Tri-Clover-Tri-Clamp process connections.



Figure 26— Saddle Seals

Saddle Seals can be used with differential, gauge and absolute pressure transmitters and are available with 3” and 4” (6 bolt or 8 bolt designs) process connections.



Figure 27 — Calibration Rings

Calibration Rings are available with Flush Flange Seals and Pancake Seals. Flushing ports (1/4” or 1/2”) are available with calibration rings.



Figure 28 — Stainless Steel Armor and PVC Coated Stainless Steel Armor Capillaries

Stainless Steel Armor and PVC Coated Stainless Steel Armor Capillaries are available with Honeywell Remote Seal Solutions.



Figure 29 — 2” Stainless Steel Nipples

2” Stainless Steel Nipples are available for Close-Coupled remote seal solutions



Figure 30 — Welded Meter Body for All-Welded Remote Seal Solution

Welded Meter Body for All-Welded Remote Seal Solution. The welded ST 700 meter body is an important part of an All-Welded Remote Seal Solution, which is commonly used in Vacuum applications.

Model Selection Guide

Model Selection Guides are subject to change and are inserted into the specifications as guidance only.

Honeywell

Model STR700 (DP, GP) Remote Seals

Model Selection Guide
34-ST-16-104, Issue 36

Honeywell Proprietary



Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make selections from each Table (I, II and IX) using the column below the proper arrow.
- A (●) denotes unrestricted availability. A letter denotes restricted availability.
- Restrictions follow Table IX.

Key Number	I	II	III	IV	V	VI	VII	VIII	IX
STR7__	-	-	-	-	-	-	-	-	+ 0000

KEY NUMBER	URL	LRL	Max Span	Min Span	Units	Selection	Availability
Measurement Range Std	100 (7)	-100 (-7)	100 (7)	0.9 (0.062)	psi (bar)	STR73D	↓
Accuracy	500 (35)	-14.7 (-1.0)	500 (35)	5 (0.35)	psi (bar)	STR74G	↓

Note: Remote seal system pressure rating is body rating or seal rating, whichever is less.

TABLE I		Description		Selection					
Meter Body & Capillaries	a. Number of Seals	1 Remote Seal (High Side) 2 Remote Seals 1 Remote Seal (Low Side)		1 _____ 2 _____ 3 _____	• • •	•	•		
	b. Primary Fill Fluid (Meter body)	Silicone Oil 200 Fluorinated Oil CTFE Silicone Oil 704 NEOBEE® M-20 ¹¹		1 _____ 2 _____ 3 _____ 4 _____	• 2 • •	•	2		
	c. Construction	Non-Wetted Adapter Head Materials							
	In-Line Gauge	316 SS Bonnet 316 SS Bonnet for Close-Couple		A _____ B _____			• 3		
	Dual Head DP	316 SS (bolt-on heads) 316 SS for Close-Couple 316 SS with all-welded meter body		C _____ D _____ E _____	• 3 4				
	d. Bolts and Nuts for Transmitter Heads	None Carbon Steel Bolts and Nuts 316 SS Bolts and Nuts A286 SS (NACE) Bolts and 304 SS (NACE) Nuts B7M (NACE) Bolts and 7M (NACE) Nuts		0 _____ C _____ S _____ N _____ B _____	22 • • • •	•			
	e. Secondary Fill Fluid (capillary & seal)**	No Fill Fluid Silicone Oil 200 Fluorinated Oil CTFE Silicone Oil 704 Neobee® M20 ¹¹ Syltherm® 800 ¹²		0 _____ 1 _____ 2 _____ 3 _____ 4 _____ 5 _____	5 • • • • •	5 • • • • •			
	f. Connection of Remote Seal to Meter Body** 	No Capillary, No Nipple (Specify for VAM Unit Only)		0 _____	5	5			
		Capillary Length	5 feet 1.5 m	SS Armor	A _____	•	•		
			10 feet 3.0 m		B _____	•	•		
			15 feet 4.5 m		C _____	•	•		
			20 feet 6.1 m		D _____	•	•		
			25 feet 7.5 m		E _____	•	•		
			35 feet 10.7 m		F _____	•	•		
			5 feet 1.5 m	PVC Coated SS Armor	G _____	•	•		
			10 feet 3.0 m		H _____	•	•		
			15 feet 4.5 m		J _____	•	•		
			20 feet 6.1 m		K _____	•	•		
			25 feet 7.5 m		L _____	•	•		
			35 feet 10.7 m		M _____	•	•		
		2 inch long SS nipple close-coupled		2 _____	6	6			
	g. Seal Option**	None Std Gold Plated Seal Diaph. = 50 µin Teflon Coated Seal Diaphragm - only for anti-sticking		0 _____ 1 _____ 4 _____	• 7 7	• 7 7			

¹⁰ Refer to 34-ST-00-128 for additional options, consult factory

¹¹ Limited vacuum availability.

¹² Minimum static pressure requirement. No vacuum allowed. See Specifications 34-ST-03-88 Figure 15



In-Line Gauge



Dual Head DP



All welded

STR74G
STR73D

Note: When selecting required seal, you must specify only the 9 selections within the required seal type.

Note: When selecting required seal, you must specify only the 9 selections within the required seal type.				Selection		↓	↓					
TABLE II		Description										
Seals	No Seal Attached to Core Transmitter (Specify for VAM Unit Only)				0 0 0 0 0 0 0 0		21	21				
	Seal Type  Flush Flanged Seal**	Diaphragm Diameter	Flange Size	Flange Pressure	Rating ¹	Selection						
							3.5"	3"	ANSI Class 150	AFA _____	•	•
								80mm	ANSI Class 300	AFC _____	•	•
		Wetted Material	Diaphragm	Upper Insert	Selection							
						316L SS	316L SS	_____ AA _____	•	•		
			Hastelloy® C-276	316L SS	_____ AB _____	•	•					
			Hastelloy® C-276	Hastelloy® C-276	_____ AC _____	•	•					
			Monel 400®	Monel 400®	_____ AE _____	8	8					
			Tantalum ⁵	316L SS	_____ AF _____	8	8					
			Non-Wetted Material (upper)	CS (Nickel Plated)		_____ 1 _____	•	•				
		316L SS		_____ 2 _____	•	•						
		Seal-Capillary Connection	Center Seal		_____ 1 _____	•	•					
			Side Seal		_____ 2 _____	9	9					
		Calibration Rings	None		_____ A _____	•	•					
			316L SS		_____ B _____	10	10					
			Hastelloy® C-276		_____ C _____	10	10					
Monel 400®			_____ D _____	10	10							
Flushing	None		_____ 0 _____	•	•							
Connections and Plugs ⁴ (Metal plug material will be the same as Cal. ring material if metal plug is chosen)	One 1/4" with plastic plug		_____ H _____	11	11							
	One 1/4" with metal plug		_____ J _____	11	11							
	Two 1/4" with plastic plugs		_____ M _____	11	11							
	Two 1/4" with metal plugs		_____ N _____	11	11							
	One 1/2" with plastic plug		_____ P _____	11	11							
	One 1/2" with metal plug		_____ Q _____	11	11							
	Two 1/2" with plastic plugs		_____ R _____	11	11							
Two 1/2" with metal plugs		_____ S _____	11	11								

Table II continued next page

^{**} Refer to 34-ST-00-128 for additional options, consult factory

¹ Standard facing 125-250 AARH RF (raised face) serrated surface finish.

⁴ Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation

⁵ Tantalum Upper insert has Tantalum wetted parts and 316 SS or CS non-wetted parts

Note: Remote seal system pressure rating is body rating or seal rating, whichever is less.

STR74G
STR73D

TABLE II		Description				Selection		
	Seal Type	Diaphragm Diameter	Flange Size	Flange Pressure Rating ¹	Const. - See Spec. Figure 34-ST-03-104	Construction - See Spec. Figure 34-ST-03-104		
Seals (continued)		2.4"	1"	ANSI 150	22	BCA _____	•	•
				ANSI 300	22	BCC _____	•	•
		2.9"	1-1/2"	ANSI 150	22	BGA _____	•	•
				ANSI 300	22	BGC _____	•	•
			1-1/2"	ANSI 150	22	CGA _____	•	•
				ANSI 300	22	CGC _____	•	•
		4.1"	2"	ANSI 150	22	CDA _____	•	•
			1/2"	ANSI 150	22	DAA _____	•	•
			1"	ANSI 150	23	DCA _____	•	•
				ANSI 300	23	DCC _____	•	•
			1-1/2"	ANSI 150	23	DGA _____	•	•
				ANSI 300	23	DGC _____	•	•
			2"	ANSI 150	23	DDA _____	•	•
				ANSI 300	22	DDC _____	•	•
			3"	ANSI 150	22	DFA _____	•	•
				ANSI 300	22	DFC _____	•	•
		Wetted Material	Diaphragm		Lower	Selection		
			316L SS		316L SS	BA _____	•	•
			Hastelloy® C-276		316L SS	BB _____	•	•
			Hastelloy® C-276		Hastelloy® C-276	BC _____	•	•
			Monel 400®		Monel 400®	BE _____	8	8
			Tantalum		316L SS	BF _____	8	8
		Non-Wetted Material (upper, upper insert)	Upper		Upper Insert	Selection		
			316L SS		316L SS	4 _____	•	•
		Bolts ⁶	No Selection			5 _____	•	•
			None			0 _____	•	•
		Flushing Connections and Plugs ⁴ (Metal plug material will be the same as Lower material, if metal plug is chosen - (SS Plug for CS Lower and Tantalum Clad)	One 1/4" with plastic plug			H _____	•	•
			One 1/4" with metal plug			J _____	•	•
			Two 1/4" with plastic plugs			M _____	•	•
			Two 1/4" with metal plugs			N _____	•	•
			One 1/2" with plastic plug			P _____	•	•
			One 1/2" with metal plug			Q _____	•	•
			Two 1/2" with plastic plugs			R _____	•	•
			Two 1/2" with metal plugs			S _____	•	•
		Gasket	Klinger® C-4401 (non-asbestos)			K _____	•	•
			Graphite			G _____	•	•
			Teflon®			T _____	•	•

Table II continued next page

^{**} Refer to 34-ST-00-128 for additional options, consult factory

¹ Standard facing 125-250 AARH RF (raised face) serrated surface finish.

⁶ Bolt material will be same as Upper Material. However, if Table I bolts/nuts material is NACE or B7M, seal bolt material will be 304 SS NACE.

⁴ Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation

Note: Remote seal system pressure rating is body rating or seal rating, whichever is less.

						STR74G	
						STR73D	
TABLE II		Description					
Seals (continued)	Seal Type	Diaphragm Diameter	Flange Size	Flange Pressure Rating ¹		Selection	
		2.8"	3" (2.8" OD extension)	ANSI Class 150		EFA _____	•
				ANSI Class 300		EFC _____	•
				DIN DN80-PN40		EFM _____	•
		3.5"	4" (3.70" OD extension)	ANSI Class 150		FGA _____	•
				ANSI Class 300		FGC _____	•
				DIN DN100-PN40		FGP _____	•
	Flange Seal with Extended Diaphragm**	Wetted Material	Diaphragm		Ext. Tube	Selection	
			316L SS		316L SS	EA _____	•
			Hastelloy® C-276		316L SS	EB _____	•
			Hastelloy® C-276		Hastelloy® C-276	EC _____	•
		Non-Wetted Material (flange)		CS (Nickel Plated)		7 _____	•
				316L SS		8 _____	•
		Bolts		No Selection		0 _____	•
Extension Length				2"		2 _____	•
			4"		4 _____	•	
			6"		6 _____	•	
No Selection	No Selection	No Selection		0 _____		•	

Table II continued below

TABLE II		Description					
Seals (continued)	Seal Type	Diaphragm Diameter	Flange Size	Flange Pressure Rating Dependent on Customer Flange ¹		Selection	
		3.5"	3"	ANSI Class 150/300/600		GFA _____	•
				Diaphragm	Body		
				316L SS	316L SS	GA _____	•
				Hastelloy® C-276	316L SS	GB _____	•
				Hastelloy® C-276	Hastelloy® C-276	GC _____	•
				Monel 400®	Monel 400®	GE _____	8
				Tantalum	Tantalum ⁷	GG _____	8
				No Selection		0 _____	•
				No Selection		0 _____	•
				Calibration Rings		A _____	•
				316L SS		B _____	10
				Hastelloy® C-276		C _____	10
				Monel 400®		D _____	10
				Flushing Connections and Plugs ⁴		0 _____	•
				One 1/4" with plastic plug		H _____	11
				One 1/4" with metal plug		J _____	11
				Two 1/4" with plastic plugs		M _____	11
				Two 1/4" with metal plugs		N _____	11
				One 1/2" with plastic plug		P _____	11
				One 1/2" with metal plug		Q _____	11
				Two 1/2" with plastic plugs		R _____	11
				Two 1/2" with metal plugs		S _____	11

Table II continued below

** Refer to 34-ST-00-128 for additional options, consult factory

¹ Standard facing 125-250 AARH RF (raised face) serrated surface finish.⁴ Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation⁷ Tantalum Body has Tantalum wetted parts and 316 SS non-wetted parts

Note: Remote seal system pressure rating is body rating or seal rating, whichever is less.

TABLE II		Description					
Seals (continued)	Seal Type	Diaphragm Diameter	Flange Size	Flange Pressure Rating ¹		Selection	
		3.5"	Taylor Wedge 5" O.D.	750 psi		HMO _____	16
				Diaphragm	Body	Selection	
				316L SS	316L SS	HA _____	•
				Hastelloy® C-276	316L SS	HB _____	•
				Hastelloy® C-276	Hastelloy® C-276	HC _____	•
				No Selection		0 _____	•
				No Selection		0 _____	•
				No Selection		0 _____	•
				No Selection		0 _____	•

Table II continued next page

						STR74G		STR73D	
TABLE II		Description							
Seals (continued)	Seal Type	Diaphragm Diameter	Threaded Process Connection Size (NPT Female)	Pressure Rating		Selection			
				CS Bolts	304 SS Bolts				
	2.4"	1/2 NPT	2,500 psi	1,250 psi	JJG _____	•	•		
		3/4 NPT			JKG _____	•	•		
		1 NPT			JLG _____	•	•		
	4.1"	1/2 NPT	1,500 psi	750 psi	LJG _____	•	•		
		3/4 NPT			LKG _____	•	•		
		1 NPT			LLG _____	•	•		
		Wetted Material	Diaphragm	Lower	Selection				
			316L SS	Carbon Steel	____ JA ____	•	•		
			316L SS	316L SS	____ JB ____	•	•		
			Hastelloy® C-276	316L SS	____ JC ____	•	•		
			Hastelloy® C-276	Hastelloy® C-276	____ JD ____	•	•		
			Monel 400®	Monel 400®	____ JE ____	8	8		
		Tantalum	316L SS	____ JF ____	8	8			
		Tantalum	Hastelloy® C-276	____ JG ____	8	8			
		Non-Wetted Material (upper)	CS (Nickel Plated)		____ A ____	•	•		
			316 Stainless Steel		____ C ____	17	17		
	Bolts ⁸	Carbon Steel		____ C ____	•	•			
		304 SS		____ D ____	•	•			
	Flushing Connections and Plugs ⁴ (Metal plug material will be the same as Lower material, if metal plug is chosen - (SS Plug for CS Lower and Tantalum Clad)	None		____ 0 ____	•	•			
		One 1/4" with plastic plug		____ H ____	•	•			
		One 1/4" with metal plug		____ J ____	•	•			
Two 1/4" with plastic plugs		____ M ____	•	•					
Two 1/4" with metal plugs		____ N ____	•	•					
One 1/2" with plastic plug		____ P ____	18	18					
One 1/2" with metal plug		____ Q ____	18	18					
Two 1/2" with plastic plugs		____ R ____	18	18					
Two 1/2" with metal plugs		____ S ____	18	18					
Gasket		Klinger® C-4401 (non-asbestos)		____ K ____	•	•			
	Graphite		____ G ____	•	•				
	Teflon®		____ T ____	•	•				

Table II continued below

¹ Standard facing 125-250 AARH RF (raised face) serrated surface finish.

⁴ Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation

⁸ If Table I Bolts and Nuts material option is NACE, Bolts and Nuts will ship with Alloy Steel NACE and MAWP may change.

Note: Remote seal system pressure rating is body rating or seal rating, whichever is less.

						STR74G			
						STR73D			
TABLE II		Description							
Seals (continued)	Seal Type	Diaphragm Diameter	Flange Size	Pressure Rating		Selection			
		1.9"	2"	Customer clamp rating or 600 psi, whichever is less		MD0 _____	20	19	
		2.4"	2-1/2"			NE0 _____	19	19	
		2.9"	3"			PF0 _____	19	19	
		4.1"	4"			QG0 _____	19	19	
		Wetted Material		Diaphragm	Body	Selection			
			316L SS	316L SS	___ N A ___		•	•	
	Non-Wetted Material		No Selection		___ 0 ___		•	•	
	Bolts		No Selection		___ 0 ___		•	•	
	Styles		Tri-Clover Tri-Clamp®		___ 8 ___		•	•	
Gasket		No Selection		___ 0 ___		•	•		

Table II continued next page

TABLE II		Description					STR73D		
Seals (continued)		Seal Type	Diaphragm Diameter	Size and Bolt Pattern	Seal Pressure Rating		Selection		
					C.S. Bolts	304 SS Bolts			
		2.4" 8-Bolt Design	for 3" Pipe ≥ 4" pipe	2,500 psi	1,250 psi	RFK _____	•	•	
						RGK _____	•	•	
		2.4" 6-Bolt Design	for 3" Pipe ≥ 4" pipe	2,000 psi	1,000 psi	RPK _____	•	•	
						RQK _____	•	•	
		Wetted Material	Diaphragm	Lower Housing	Selection				
			316L SS	Carbon Steel	___ RA ___	•	•		
			316L SS	316L SS	___ RB ___	•	•		
			Hastelloy® C-276	316L SS	___ RC ___	•	•		
			Hastelloy® C-276	Hastelloy® C-276	___ RD ___	•	•		
			316L SS	N/A-Body Only ¹⁰	___ SB ___	•	•		
		Non-Wetted Material	Hastelloy® C-276	N/A-Body Only ¹⁰	___ SC ___	•	•		
			Body	Bolts ^{10,11}	Selection				
			Carbon Steel	Carbon Steel	___ B ___	8	8		
						___ C ___	•	•	
	Bolts	No Selection			___ 0 ___	•	•		
	Styles	No Selection			___ 0 ___	•	•		
	Gasket	Klinger® C-4401 (non-asbestos)			___ K ___	•	•		
		Graphite			___ G ___	•	•		
		Teflon®			___ T ___	•	•		

⁹ All sanitary seals have dairy grade 3A approval.

¹⁰ Bolts are not included with "body only" selection.

¹¹ If Table I Bolts and Nuts material option is NACE, seal bolt material will be 304 SS NACE.

Note: Remote seal system pressure rating is body rating or seal rating, whichever is less.

TABLE III	Agency Approvals (see data sheet for Approval Code Details)
Approvals	No Approvals Required FM Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof CSA Explosion proof, Intrinsically Safe, Non-incendive, & Dustproof ATEX Explosion proof, Intrinsically Safe & Non-incendive IECEx Explosion proof, Intrinsically Safe & Non-incendive SAEx Explosion proof, Intrinsically Safe & Non-incendive INMETRO Explosion proof, Intrinsically Safe & Non-incendive NEPSI Explosion proof, Intrinsically Safe & Non-incendive KOSHA Explosion proof, Intrinsically Safe & Non-incendive EAC Customs Union(Russia,Belarus,Kazakhstan)Ex Approval,Flame proof, Intrinsically Safe CCoE Explosion proof, Intrinsically Safe & Non-incendive UATR Flameproof, Intrinsically Safe & Dustproof

0	•	•
A	•	•
B	•	•
C	•	•
D	•	•
E	•	•
F	•	•
G	•	•
H	•	•
I	•	•
J	•	•
K	•	•

TABLE IV	TRANSMITTER ELECTRONIC SELECTIONS		
a. Electronic Housing Material & Connection Type	Material	Connection	Lightning Protection
	Polyester Powder Coated Aluminum	1/2 NPT	None
	Polyester Powder Coated Aluminum	M20	None
	Polyester Powder Coated Aluminum	1/2 NPT	Yes
	Polyester Powder Coated Aluminum	M20	Yes
	Dual Certified SS 316/316L (CF8M/CF3M)	1/2 NPT	None
	Dual Certified SS 316/316L (CF8M/CF3M)	M20	None
	Dual Certified SS 316/316L (CF8M/CF3M)	1/2 NPT	Yes
b. Output/ Protocol	Analog Output		Digital Protocol
	4-20mA dc		HART Protocol
	4-20mA dc		DE Protocol
c. Customer Interface Selections	Indicator	Ext Zero, Span & Config Buttons	Languages
	None	None	None
	None	Yes (Zero/Span Only)	None
	Advanced	None	EN, GE, FR, IT, SP, RU, TU
	Advanced	Yes	EN, GE, FR, IT, SP, RU, TU
	Advanced	None	EN, CH, JP
	Advanced	Yes	EN, CH, JP
	Standard (w/internal Zero, Span & Conf Buttons)	None	EN, RU
	Standard (w/internal Zero, Span & Conf Buttons)	Yes	EN, RU

A	•	•
B	•	•
C	•	•
D	•	•
E	•	•
F	•	•
G	•	•
H	•	•

_ H _	•	•
_ D _	•	•

__ 0	•	•
__ A	•	•
__ D	*	*
__ E	*	*
__ H	*	*
__ J	*	*

__ S	u	u
__ T	u	u

TABLE V	CONFIGURATION SELECTIONS		
a. Application Software	Diagnostics		
	Standard Diagnostics		
b. Output Limit, Failsafe & Write Protect Settings	Write Protect	Fail Mode	High & Low Output Limits ³
	Disabled	High > 21.0mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Disabled	Low < 3.6mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Enabled	High > 21.0mAdc	Honeywell Std (3.8 - 20.8 mAdc)
	Enabled	Low < 3.6mAdc	Honeywell Std (3.8 - 20.8 mAdc)
c. General Configuration	Factory Standard		
	Custom Configuration (Unit Data Required from customer)		

1	•	•
---	---	---

1	•	•
2	•	•
3	•	•
4	•	•
S	•	•
C	•	•

TABLE VI	CALIBRATION & ACCURACY SELECTIONS		
Accuracy and Calibration	Accuracy	Calibrated Range	Calibration Qty
	NA	None	None
	Standard	Factory Std	Single Calibration
	Standard	Custom (Unit Data Required)	Single Calibration

0	21	21
A	23	23
B	23	23

³ NAMUR Output Limits 3.8 - 20.5mAdc can be configured by the customer or select custom configuration Table Vc

TABLE VII	ACCESSORY SELECTIONS	
a. Mounting Bracket	Bracket Type	Material
	None	None
	Angle Bracket	Carbon Steel
	Angle Bracket	304 SS
	Angle Bracket	316 SS
	Marine Approved Bracket	Carbon Steel
	Marine Approved Bracket (In - Line)	Carbon Steel
	Marine Approved Bracket	304 SS
	Marine Approved Bracket (In - Line)	304 SS
	Flat Bracket	Carbon Steel
b. Customer Tag	Customer Tag Type	
	No customer tag	
	One Wired Stainless Steel Tag (Up to 4 lines 26 char/line)	
c. Unassembled Conduit Plugs & Adapters	Unassembled Conduit Plugs & Adapters	
	No Conduit Plugs or Adapters Required	
	1/2 NPT Male to 3/4 NPT Female 316 SS Certified Conduit Adapter	
	1/2 NPT 316 SS Certified Conduit Plug	
	M20 316 SS Certified Conduit Plug	
	Minifast® 4 pin (1/2 NPT)	
	Minifast® 4 pin (M20)	

STR74G
STR73D

0	•	•
1	•	•
2	•	•
3	•	•
8	y	•
9	•	•
4	y	•
A	•	•
5	•	•
6	•	•
7	•	•

0	•	•
1	•	•
2	•	•

A0	•	•
A2	n	n
A6	n	n
A7	m	m
A8	n	n
A9	m	m

TABLE VIII	OTHER Certifications & Options : (String in sequence comma delimited (XX, XX, XX,...))
Certifications & Warranty	None - No other options
	NACE MR0175; MR0103; ISO15156 (FC33338) Process wetted parts only
	NACE MR0175; MR0103; ISO15156 (FC33339) wetted and non-wetted parts
	Marine (DNV,ABS,BV,KR,LR)
	EN10204 Type 3.1 Material Traceability (FC33341)
	Certificate of Conformance (F3391)
	Calibration Test Report & Certificate of Conformance (F3399)
	Certificate of Origin (F0195)
	FMEDA (SIL 2/3) Certification (FC33337)
	Over-Pressure Leak Test Certificate (1.5X MAWP) (F3392)
	Cert Clean for O2 or CL2 service per ASTM G93
	Extended Warranty Additional 1 year
	Extended Warranty Additional 2 years
	Extended Warranty Additional 3 years
	Extended Warranty Additional 4 years

00	*	*
FG	•	•
F7	c	c
MT	d	d
FX	•	•
F3	•	•
F1	•	•
F5	•	•
FE	j	j
TP	•	•
OX	e	e
01	•	•
02	•	•
03	•	•
04	•	•

TABLE IX	Manufacturing Specials
Factory	Factory Identification

0 0 0 0	•	•
---------	---	---

MODEL RESTRICTIONS

Restriction Letter	Available Only With		Not Available With	
	Table	Selection(s)	Table	Selection(s)
b		Select only one option from this group		
d			VIIa	1,2,3,5,6,7
c	Id	___ 0, N, B ___		
e	Ib	___ 2 ___ 2 ___		
j	IVb	___ H ___	Vb	___ 1,2,6 ___
m	IVa	___ B, D, F, H ___		
n	IVa	___ A, C, E, G ___		
u	IVb	___ H ___		
y			Ic	___ E ___
2	Ie	___ 0 ___ ___ 2 ___ ___ 4 ___		
3	If	___ 2 ___	Ia	2 ___
4	I	___ 2 ___ 0 ___		
5	II	000000000	VIII	FG, F7, FX, OX, TP, MT, F1
6	Ic	___ B, D ___	Ia	2 ___
7			II	AF BF BG BH GG JF JG
8			VIII	FG, F7
9	II	___ AA2 ___ ___ AB2 ___		
10			II	___ 0 ___
11			II	___ A ___
13	II	___ 0 ___	II VIII	___ T ___ FG, F7
16	I	___ 2 ___		
17			II	___ JA ___
18			II	JJG JKG JLG
19			If	___ 2 ___
20	If	___ A, G ___		
21	I	___ 000 ___		
22	Ic	___ E ___		
23			II	000000000

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Monel 400[®] is a registered trademark of Special Metals Corporation.

HART[®] is a registered trademark of HART Communication Foundation.

FOUNDATIONTM Fieldbus is a registered trademark of Fieldbus Foundation.

Teflon[®] is a registered trademark of DuPont.

Neobee[®] is a registered trademark of Stepan Company.

Syltherm[®] 800 is a Trademark of Dow Corning Corporation

Klinger[®] C-4401 is a registered trademark of THERMOSEAL, INC

GRAFOIL[®] is a registered trademarks of GraffTech International Holdings Inc

Gylon[®] 3510 is registered trademark of Garlock Sealing Technologies

Tri-Clover Tri-Clamp[®] is a registered trademark of Alfa-Laval

FIELD INSTALLABLE REPLACEMENT**PARTS**

Description	Kit Number	Price
Integrally Mounted Advanced Indicator Kit (compatible with all Electronic Modules)	50049846-501	Note P
Standard Display Module	50126003-501	Note P
Terminal Strip w/ Lightning Protection Kit for HART or DE Modules	50075472-532	Note P
Terminal Strip w/ Lightning Protection Kit for FFB/ <i>Profibus</i> Module	50075472-534	Note P
Terminal Strip w/o Lightning Protection for HART or DE Modules	50075472-531	Note P
Terminal Strip w/o Lightning Protection FFB Module	50075472-533	Note P
HART Electronics Module	50049849-501	Note P
HART Electronics Module w/ connection for external configuration buttons	50049849-502	Note P
DE Electronics Module	50049849-503	Note P
DE Electronics Module w/ connection for external configuration buttons	50049849-504	Note P
FFB Electronics Module Kit	50049849-509	Note P
FFB Electronics Module w/ connection for external configuration buttons	50049849-510	Note P

Note P - For part number pricing please refer to Web Channel.

PRODUCT MANUALS

Description	Part Number
ST 700 SmartLine Transmitter User Manual - English	34-ST-25-44
ST 700 SmartLine Transmitter HART/DE Communications Manual - English	34-ST-25-47
ST 700 SmartLine Transmitter Safety Manual - English	34-ST-25-37
ST 700 SmartLine Transmitter Foundation Fieldbus Manual - English	34-ST-25-48
ST 700 SmartLine Transmitter Function Block Manual - English	34-ST-25-49

All product documentation is available at
www.process.honeywell.com.

Sales and Service

For application assistance, current specifications, ordering, pricing, and name of the nearest Authorized Distributor, contact one of the offices below.

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Specifications are subject to change without notice.

For more information

To learn more about SmartLine Transmitters,
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