

ST 3000 Smart Transmitter Series 900 Remote Diaphragm Seals Models

STR93D 0 to 100 psid 0 to 7 bar STR94G 0 to 500 psig 0 to 35 bar 34-ST-03-57 3/07

Specification and Model Selection Guide

Introduction

In 1983, Honeywell introduced the first Smart Pressure Transmitter— the ST 3000[®]. In 1989, Honeywell launched the first all digital, bi-directional protocol for smart field devices. Today, its ST 3000 Series 900 Remote Seal Transmitters continue to bring proven "smart" technology to a wide spectrum of pressure measurement applications. For applications in which the transmitter must be mounted remotely from the process, Honeywell offers the remote seal line of gauge, absolute and differential pressure transmitters. Typical applications include level measurement in pressurized vessels in the chemical and hydrocarbon processing industries. A second application is flow measurement for slurries and high viscosity fluids in the chemical industry. Honeywell remote seal transmitters are available with secondary fill fluids for corrosive or high temperature process fluids

All ST 3000 transmitters can provide a 4-20 mA output, Honeywell Digitally Enhanced (DE) output, HART* output, or FOUNDATION™ Fieldbus output. When digitally integrated with Honeywell's Process Knowledge System™, EXPERION PKS™, ST 3000 instruments provide a more accurate process variable as well as advanced diagnostics.

Honeywell's cost-effective ST 3000 S900 transmitters lead the industry in reliability and stability:

- Stability = ±0.01% per year
- Reliability = 470 years MTBF





Figure 1—Series 900 Remote Seal Pressure Transmitters feature proven piezoresistive sensors and advanced seal technology with standard weld connections.

The devices provide comprehensive self-diagnostics to help users maintain high uptime, meet regulatory requirements, and attain high quality standards. S900 transmitters allow smart performance at analog prices. Accurate, reliable and stable, Series 900 transmitters offer greater turndown ratio than conventional transmitters.

"Honeywell transmitters operating in the digital mode using Honeywell's Digitally Enhanced (DE) protocol make diagnostics available right at the control system's human interface. Equally important, transmitter status information is continuously displayed to alert the operator immediately of a fault condition. Because the process variable (PV) status transmission precedes the PV value, we are guaranteed that a bad PV is not used in a control algorithm. In addition, bi-directional communication provides for remote transmitter configuration directly from the human interface, enabling management of the complete loop."

Maureen Atchison, DuPont Site Electrical & Instrumentation Leader

Description of Diaphragm Seals

Diaphragm seals are traditionally used when a standard pressure transmitter should not be exposed to the process pressure directly. Diaphragm seals typically protect the pressure transmitter from one or more damaging aspects of the process media. Consideration for using a diaphragm seal should be made in the following circumstances.

- High Process Temperature
- Process Media is Viscous or Contains Suspended Solids
- Process Media is Subject to Solidifying
- Process Media is Corrosive
- Process Application Requires Sanitary Connections
- Process Application Subjects the Measuring Instrument to Hydrogen Permeation
- Tank Level Applications with Maintenance Intensive Wet Legs
- Tank Application with Density or Interface Measurements
- Measuring Instrument Requires Remote Mounting

The following diaphragm seals are standard from Honeywell (please call your local salesperson if you do not see the product you need for your application):

Figure 2 - 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 – see Figure 31.



Figure 2

Figure 3 - 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 3

Figure 4 - 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 4

Figure 5 - Chemical Tee "Taylor" Wedge seals can be used with differential pressure transmitters and are available with Taylor Wedge 5" O.D. process connection.



Figure 5

Description of Diaph	ragm Seals
Figure 6 - 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 6
Figure 7 - 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 8 - 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 7 Figure 8
Figure 9 - Calibration Rings are available with Flush Flange Seals and Pancake Seals. Flushing ports (1/4" or ½") are available with calibration rings.	Figure 9
Figure 10 - Stainless Steel Armor and PVC Coated Stainless Steel Armor Capillaries are available with Honeywell Remote Seal Solutions.	Figure 10
Figure 11 - 2" Stainless Steel Nipples are available for Close-Coupled remote seal solutions.	Figure 11

Figure 12 - Welded Meter Body for All-Welded Remote Seal Solution. The welded ST 3000 meter body is an important part of an All-Welded Remote Seal Solution, which is commonly used in Vacuum applications.



Figure 12

Description

The ST 3000 transmitter can replace any 4 to 20 mA output transmitter in use today and operates over a standard two-wire system.

The measuring means is a piezoresistive sensor, which actually contains three sensors in one. It contains a differential pressure sensor, a temperature sensor, and a static pressure sensor.

Microprocessor-based electronics provide higher span-turndown ratio, improved temperature and pressure compensation, and improved accuracy.

The transmitter's meter body and electronics housing resist shock, vibration, corrosion, and moisture. The electronics housing contains a compartment for the single-board electronics, which is isolated from an integral junction box. The single-board electronics is replaceable and interchangeable with any other ST 3000 Series 100 or Series 900 model transmitter.

Like other Honeywell transmitters, the ST 3000 features two-way communication and configuration capability between the operator and the transmitter through several Honeywell field-rated portable configuration devices, including the Smart Field Communicator (SFC) and the Multiple Communication Configurator (MC ToolKit). While both are made for infield use, the MC Toolkit also can be ordered for use in intrinsically safe environments.

The SCT 3000 Smartline® Configuration Toolkit provides an easy way to configure instruments using a personal computer. The toolkit enables configuration of devices before shipping or installation. The SCT 3000 can operate in the offline mode to configure an unlimited number of devices. The database can then be loaded down-line during commissioning.

Features

- Choice of linear or square root output conformity is a simple configuration selection.
- Direct digital integration with Experion PKS and other control systems provides local measurement accuracy to the system level without adding typical A/D and D/A converter inaccuracies.
- Unique piezoresistive sensor automatically compensates input for temperature and static pressure. Added "smart" features include configuring lower and upper range values, simulating accurate analog output, and selecting preprogrammed engineering units for display.
- Smart transmitter capabilities with local or remote interfacing means significant manpower efficiency improvements in commissioning, start-up, and ongoing maintenance functions.

Specifications

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	25 ±1	77 ±2	-25 to 70	-13 to 158	-40 to 85	-40 to 185	-55 to 125	-67 to 257
Process Interface Temperature	25 ±1	77 ±2	See Figu		ure 13		-55 to 125	-67 to 257
Humidity %RH	10 to 55 0 to 100			0 to 100		0 to 100		
Maximum Allowable Working Pressure (MAWP)	MAWP i MAWP)	MAWP is minimum of Body Rating or Seal Ra			ating (See Mo	odel Selection	n Guide for	Seal
			Body STR93D STR94G	MAWP 750 psig (500 psig	,			
Vacuum Region, Minimum Pressure - mmHg absolute inH ₂ O absolute	atmosp atmosp			See Fig	ure 13			
Supply Voltage, Current, and Load Resistance	Curren	e Range t Range esistan	: 3.0 to 21.8	4 Vdc at termi mA ohms (as shov		4)		

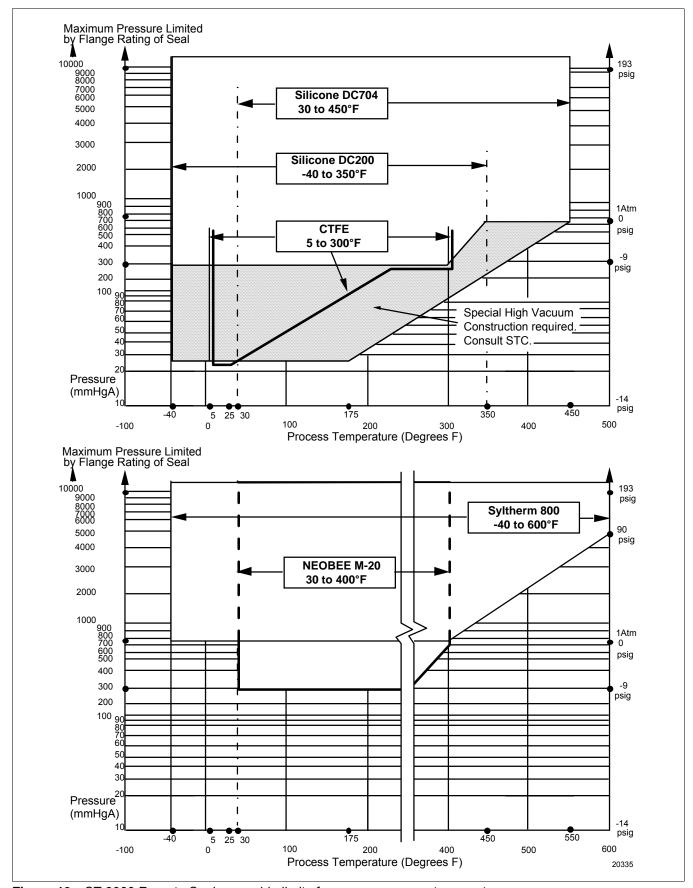


Figure 13—ST 3000 Remote Seals operable limits for pressure versus temperature

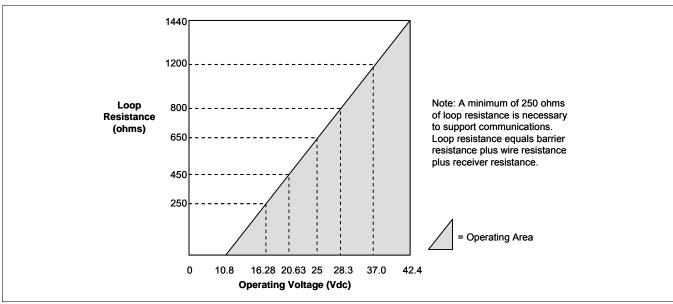


Figure 14—Supply voltage and loop resistance chart

Performance Under Rated Conditions * - Model STR93D (0 to 100 psi/7 bar)

Parameter		Description
''	psi oar	100 (Transmitter URL or maximum seal pressure rating, whichever is lower.)
•	psi oar	0.9 0.063
Turndown Ratio		110 to 1
Zero Elevation and Suppres	sion	No limit except minimum span within ±100% URL.
Accuracy (Reference – Include combined effects of linearity, hysteresis, and repeatability) • Accuracy includes residual of the combined of t		In Analog Mode: ±0.20% of calibrated span or upper range value (URV), whichever is greater, terminal based. For URV below reference point (50 inH ₂ O), accuracy equals:
 after averaging successive readings. For FOUNDATION Fieldbus us Digital Mode specifications. HART use Analog Mode specifications. 	se	
Combined Zero and Span Temperature Effect per 28°C (50°F) **	;	In Analog Mode: $\pm 1.5\%$ of span. For URV below reference point (200 inH ₂ O), effect equals: $ \pm 0.30 \pm 1.2 \left(\frac{200 \text{ in H}_2\text{O}}{\text{span in H}_2\text{O}} \right) \text{or } \pm 0.30 \pm 1.2 \left(\frac{500 \text{ mbar}}{\text{span mbar}} \right) \text{ln } \% \text{ span} $ In Digital Mode: $\pm 1.475\%$ of span. For URV below reference point (200 inH ₂ O), effect equals: $ \pm 0.275 \pm 1.2 \left(\frac{200 \text{ in H}_2\text{O}}{\text{span in H}_2\text{O}} \right) \text{or } \pm 0.275 \pm 1.2 \left(\frac{500 \text{ mbar}}{\text{span mbar}} \right) \text{ln } \% \text{ span} $

Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

^{**} Specification applies to transmitters with 2 seals only. Apply 1.5 times factor to temperature effect for capillary lengths greater than 10 feet or for 2-inch sanitary seals.

Performance Under Rated Conditions * - Models STR94G (0 to 500 psi/35 bar)

Parameter		Description
Upper Range Limit	psi bar	500 35
Minimum Span	psi bar	20 1.4
Turndown Ratio		25 to 1
Zero Elevation and Suppr	ession	No limit except minimum span from absolute 0 (zero) to +100% URL.
Accuracy (Reference – Includes combined effects of linearity,		In Analog Mode: ±0.10% of calibrated span or upper range value (URV), whichever is greater, terminal based.
hysteresis, and repeatability	•	In Digital Mode: ±0.075% of calibrated span or upper range value (URV), whichever
Accuracy includes residual error after averaging successive readings.		is greater, terminal based.
For Foundation Fieldbus Digital Mode specification HART use Analog Mode specifications.		

^{*} Performance specifications are based on reference conditions of 25°C (77°F), zero (0) static pressure, 10 to 55% RH, and 316L Stainless Steel barrier diaphragm.

Transmitter	Minimum	Span a	nd Maximum	Capillary Length	

Minimum recommended span for STR93D DP Transmitter with two Remote Seals

Diaphragm		Capillary							
Size	5'	10'	15'	20'	25'	30'	35'	maximum	
2.0	15 psig	20 psig	25 psig	-	-	-	-	15'	
2.4	150 iwc	200 iwc	250 iwc	300 iwc	350 iwc	400 iwc	450 iwc	35'	
2.9	50 iwc	75 iwc	100 iwc	125 iwc	150 iwc	175 iwc	200 iwc	35'	
3.5	25 iwc	25 iwc	25 iwc	28 iwc	32 iwc	36 iwc	40 iwc	35'	
4.1	25 iwc	25 iwc	25 iwc	25 iwc	25 iwc	27 iwc	30 iwc	35'	

Minimum recommended span for STR94G or STR93D DP Transmitter with one Remote Seal

Diaphragm	Direct		Capillary					
Size	Mount	5'	10'	15'	20'	30'	35'	maximum
2.0	25 psi	30 psi	40 psi	50 psi	1	-	-	15'
2.4	10 psi	15 psi	20 psi	25 psi	30 psi	40 psi	50 psi	35'
2.9	8 psi	9 psi	10 psi	11 psi	12 psi	14 psi	15 psi	35'
3.5	2 psi	2 psi	3 psi	4 psi	5 psi	7 psi	8 psi	35'
4.1	0.9 psi	0.9 psi	1 psi	2 psi	3 psi	4 psi	5 psi	35'

Minimum span is the higher of the value from the table above or the value defined under Performance Conditions for the range transmitter

Figure 15— Maximum capillary length and diaphragm size chart.

Performance Under Rated Conditions - General for all Models

Parameter	Description
Output (two-wire)	Analog 4 to 20 mA or DE digital communications mode. Options available for FOUNDATION Fieldbus and HART protocols.
Supply Voltage Effect	0.005% of span per volt.
Damping Time Constant	Adjustable from 0 to 32 seconds digital damping.
CE Conformity (Europe)	89/336/EEC, Electromagnetic Compatibility (EMC) Directive.
NAMUR NE 43 Compliance Option	Transmitter failure information is generated when the measuring information is invalid or no longer present. Failure information is transmitted as a current signal but outside the normal 4-20 mA measurement signal level. Transmitter failure values are: ≤ 3.6 mA and ≥ 21.0 mA. The normal signal range is ≥ 3.8 mA and ≤ 20.5 mA.
SIL 2/3 Compliance	SIL certified to IEC 61508 for non-redundant use in SIL 2 related Safety Systems (single use) and for redundant (multiple) use in SIL 3 Safety Systems through TÜV Nord Sys Tec GmbH & Co. KG under the following standards: IEC61508-1: 1998; IEC 61508-2: 2000; IEC61508-3: 1998.

Physical and Approval Bodies

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-4401 (non-asbestos)					
	Grafoil Teflon Gylon 3510					
Mounting Bracket	Carbon Steel (zinc-plated) or Stainless Steel angle bracket or Carbon Steel flat bracket available.					
Fill Fluid (Meter Body)	Silicone (DC 200) S.G. @ 25°C (77°F) = 0.94					
	CTFE (Chlorotrifluoroethylene) S.G. @ 25°C (77°F) = 1.89					
Fill Fluid (Secondary)*	Silicone (DC 200) S.G. @ 25° C (77° F) = 0.94 CTFE (Chlorotrifluoroethylene) S.G. @ 25° C (77° F) = 1.89 Silicone (DC 704) S.G. @ 25° C (77° F) = 1.07 Syltherm 800 S.G. @ 25° C (77° F) = 0.90 NEOBEE M-20 S.G. @ 25° C (77° F) = 0.93					
Electronics Housing	Epoxy-Polyester hybrid paint. Low-copper aluminum alloy. Meets NEMA 4X (watertight) and NEMA 7 (explosion proof)					
Capillary Tubing**	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 10.7m). A 2" (51 millimeter) S.S. close-coupled nipple is also available. See Model Selection Guide.					
Wiring	Accepts up to 16 AWG (1.5 mm diameter)					
Mounting	See Figure 16.					
Dimensions	See Figures 19 and 20 for transmitter dimensions. See Model Selection Guide for Seal dimensions					
Net Weight	Transmitter: 4.1 Kg (9 lbs). Total weight is dependent on seal type and capillary length.					
Approval Bodies Factory Mutual	Explosion Proof: Approved as Explosion Proof for Class I, Division 1, Groups A, B, C, D locations, Dust Ignition Proof: Approved as Dust Ignition Proof for Class II, III, Division 1, Groups E, F, G locations, Intrincically Safe: Approved as Intrinsically Safe for for Class I, II, III, Division 1, Groups A, B, C, D, E, F, G locations. Nonincendive: Approved as Nonincendive for Class I, Division 2, Groups A, B, C, D locations.					
CSA	Explosion Proof: Approved as Explosion Proof for Class I, Division 1, Groups B, C, D locations, Dust Ignition Proof: Approved as Dust Ignition Proof for Class II, III, Division 1, Groups E, F, G locations, Intrincically Safe: Approved as Intrinsically Safe for Class I, II, III, Division 1, Groups A, B, C, D, E, F, G locations.					
Canadian Registration Number (CRN)	All ST 3000 model designs, except SATG19L, STG99L, STG170 and STG180 have been registered in all provinces and territories in Canada and are marked CRN:0F8914.5c.					
ATEX	Intrinsically Safe, Zone 0/1: EEx ia IIC T4, T5, T6 Flameproof/Zone 1: EEx d IIC T5, T6 (enclosure IP 66/67) Non-Sparking, Zone 2: EEx nA, IIC T6 (enclosure IP 66/67) Multiple Markings: EEx ia IIC T4, T5, T6, Ex II 2 G: EEx d IIC T5, T6 Ex II 3 G: EEx nA, IIC T6 (Honeywell) (enclosure IP 66/67)					
SA (Australian)	Intrinsically Safe: EX ia IIC T4 Non-Sparking: Ex n IIC T6 (T4 with SM option)					
INMETRO (Brazil)	Flame-Proof, Zone 1: EX d IIC T5					

Parameter	Description
Pressure Equipment Directive (97/23/EC)	The ST 3000 pressure transmitters listed in this Specification have no pressurized internal volume or have a pressurized internal volume rated less than 1,000 bar (14,500 psig) and/or have a maximum volume of less than 0.1 liter. Therefore, these transmitters are either; not subject to the essential requirements of the directive 97/23/EC (PED, Annex 1) and shall not have the CE mark, or the manufacturer has the free choice of a module when the CE mark is required for pressures > 200 bar (2,900 psig).

- * See Figure 13 for Fill Fluid temperature limits.
- ** 2-inch Sanitary Seals are limited to 15 ft. (4.6 m) capillary length.

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.

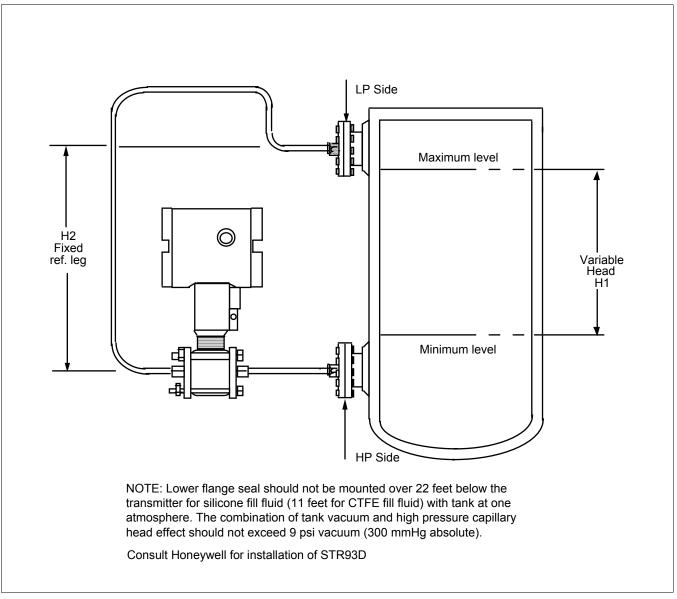


Figure 16—Typical mounting arrangement for ST 3000 Transmitter with Remote Diaphragm Seals

Application Data

Liquid Level: Closed Tank

Determine the minimum and maximum pressure differentials to be measured (Figure 17).

P_{Min} = (SG_p x a) - (SG_f x d) = LRV when HP at bottom of tank = -URV when LP at bottom of

P_{Max} = (SG_p x b) - (SG_f x d) = URV when HP at bottom of tank = -LRV when LP at bottom of

Where:

tank

tank

minimum level = 4mA

maximum level = 20 mA

a = distance between bottom tap and minimum level

b = distance between bottom tap and maximum level

d = distance between taps

SGf = Specific Gravity of capillary fill fluid (See Page 9 for values.)

SG_p = Specific Gravity of process fluid

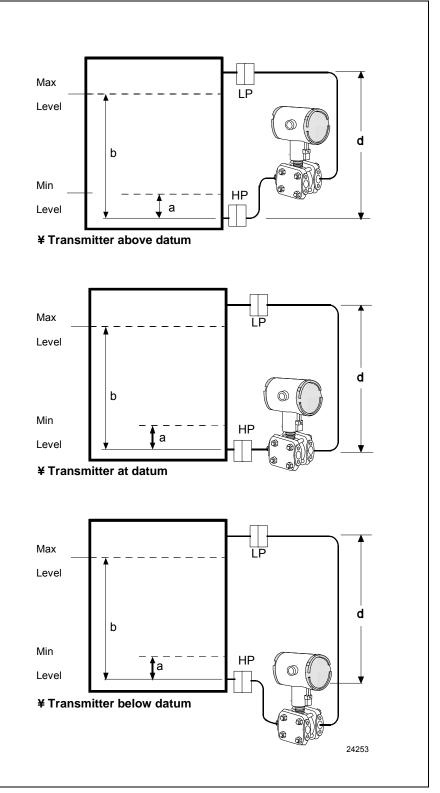


Figure 17—Closed tank liquid level measurement distances

Density or Interface

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

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

SGf = Specific Gravity of capillary fill fluid (See Page 9 for values.)

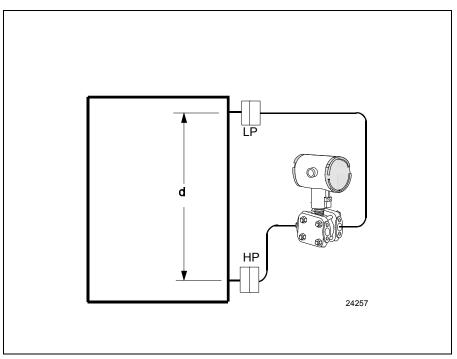


Figure 18—Density, direct acting transmitter configuration

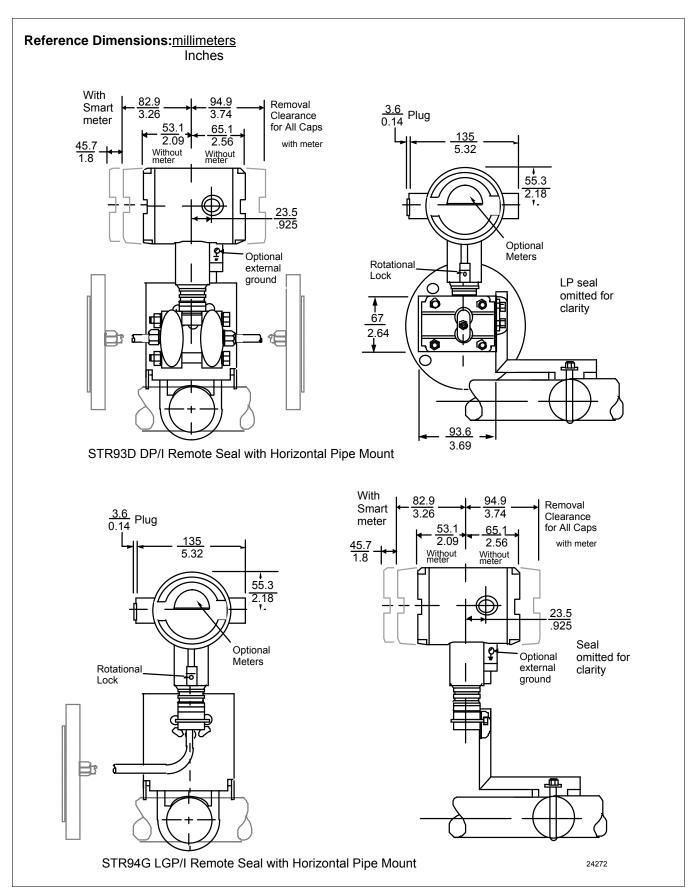


Figure 19—Approximate horizontal mounting dimensions for Remote Seal Transmitter.

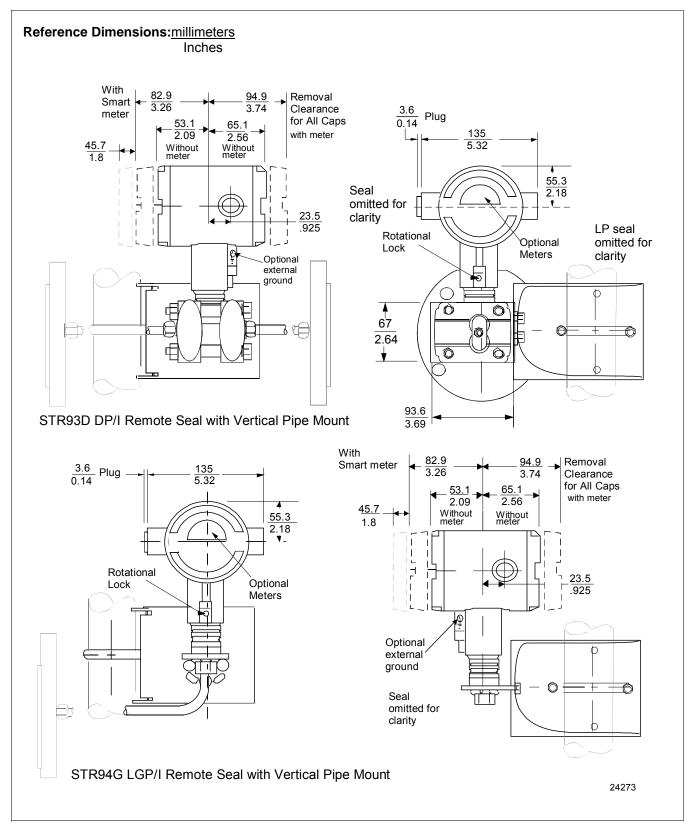


Figure 20—Approximate vertical mounting dimensions for Remote Seal Transmitter

Options

Mounting Bracket

The angle-mounting bracket is available in either zinc-plated carbon steel or stainless steel and is suitable for horizontal or vertical mounting on a two-inch (50 millimeter) pipe, as well as wall mounting. An optional flat mounting bracket is also available in carbon steel for two inch (50 millimeter) pipe mounting.

Indicating Meter (Options ME and SM)

Two integral meter options are available. An analog meter (option ME) is available with a 0 to 100% linear scale. The Smart Meter (option SM) provides an LCD display for both analog and digital output and can be configured to display pressure in pre-selected engineering units.

Lightning Protection (Option LP)

A terminal block with circuitry that protects the transmitter from transient surges induced by nearby lightning strikes is available.

HART® Protocol Compatibility (Options HC and H6)

Optional electronics modules for the ST 3000 provides HART Protocol compatibility in either HART 5.x or 6.x formats. Transmitters with a HART Option are compatible with any HART enabled system that provides 5.x or 6.x format support.

FOUNDATION Fieldbus (Option FF)

Equips transmitter with FF protocol for use in 31.25 kbit/s FF networks. See document 34-ST-03-72 for additional information on ST 3000 Fieldbus transmitters.

SIL2/SIL3 Certification (Option SL)

This ST 3000 product is available for use with safety systems. With the SL option, we are fully certified to SIL 2 capability for single transmitters and SIL 3 capability for multiple transmitter use through TÜV Nord Sys Tec GmbH & Co. KG. (continued)

We are in compliance with the following SIL standards:

IEC 61508-1: 1998; IEC 61508-2: 2000; IEC 61508-3: 1998

NAMUR NE43 Compliance (Option NE)

This option provides software the meets the NAMUR NE43 requirements for failsafe software. Transmitter failure information is generated when the measuring information is no longer valid. Transmitter failure values are: ≤ 3.6 mA and ≥ 21.0 mA. The normal ST 3000 ranges are ≤ 3.8 mA and ≥ 20.5 mA.

Indicator Configuration (Option CI)

Provides custom configuration of Smart Meters.

Tagging (Option TG)

Up to 30 characters can be added on the stainless steel nameplate mounted on the transmitter's electronics housing at no extra cost. Note that a separate nameplate on the meter body contains the serial number and body-related data. A stainless steel wired on tag with additional data of up to 4 lines of 28 characters is also available. The number of characters for tagging includes spaces.

Transmitter Configuration (Option TC)

The factory can configure the transmitter linear/square root extraction, damping time, LRV, URV and mode (analog/digital) and enter an ID tag of up to eight characters and scratchpad information as specified.

Custom Calibration and ID in Memory (Option CC)

The factory can calibrate any range within the scope of the transmitter's range and enter an ID tag of up to eight characters in the transmitter's memory.

Ordering Information

Contact your nearest Honeywell sales office, or

In the U.S.:

Honeywell
Industrial Automation & Control
16404 North Black Canyon Hwy.
Phoenix, AZ 85053
1-800-288-7491

In Canada:

The Honeywell Centre 155 Gordon Baker Rd. North York, Ontario M2H 3N7 1-800-461-0013

In Latin America:

Honeywell Inc. 480 Sawgrass Corporate Parkway, Suite 200 Sunrise, FL 33325 (954) 845-2600

In Europe and Africa:

Honeywell S. A. Avenue du Bourget 1 1140 Brussels, Belgium

In Eastern Europe:

Honeywell Praha, s.r.o. Budejovicka 1 140 21 Prague 4, Czech Republic

In the Middle East:

Honeywell Middle East Ltd. Khalifa Street, Sheikh Faisal Building Abu Dhabi, U. A. E.

In Asia:

Honeywell Asia Pacific Inc.
Honeywell Building,
17 Changi Business Park Central 1
Singapore 486073
Republic of Singapore

In the Pacific:

Honeywell Pty Ltd. 5 Thomas Holt Drive North Ryde NSW Australia 2113 (61 2) 9353 7000

In Japan:

Honeywell K.K. 14-6 Shibaura 1-chrome Minato-ku, Tokyo, Japan 105-0023

Or, visit Honeywell on the World Wide Web at: http://www.honeywell.com

Specifications are subject to change without notice. (Note that specifications may differ slightly for transmitters manufactured before October 30, 1995.)

Model Selection Guide (34-ST-16-34)

Instructions

- Select the desired Key Number. The arrow to the right marks the selection available.
- Make one selection from each table, I and II, using the column below the proper arrow.
- Select as many Table III options as desired (if no options are desired, specify 9X).
- A (•) denotes unrestricted availability. A letter denotes restricted availability.
- Restrictions follow Table IV.

Kev Number	1	II	III (Optional)	IV
		-		+ XXXX

KEY NUMBER

Description	Selection	Ava	ail.
0-25" to 0-2700" H ₂ O/0-62.2 to 0-7000 mbar	STR93D	П	
Body Rating*: 750 psi (51.7 bar) Compound Characterized	311(93D	₩	
0-20 to 0-500 psig/0-1.4 to 0-35 bar	STR94G		T
Body Rating*: 500 psi (35 bar)	311.940		•

^{*} Remote seal system pressure rating is body rating or seal rating, whichever is less.

TABLE I - METER BODY

	Description	Selection	Αv	ail.
	1 Remote Seal (High Side)	1	•	•
Number of Seals	2 Remote Seals	2	•	
Number of Seals	1 Remote Seal (Low Side)	3	•	
	Value Added Model (VAM unit)	5	8	8
Fill Fluid (Meter Body)	Silicone (DC 200)	_1_	•	•
riii riuia (Meter Body)	CTFE	_2_	q	q
Construction	Non-Wetted Material			
In-Line Gauge	316 SS	A		•
III-Lille Gauge	316 SS for Close-Couple	D		у
	316 SS Heads	A	•	
Dual Head DP	316 SS Heads for Close-Couple connection	D	у	
	316 SS with all-welded meter body	C	7	

TABLE II - SEALS

TABLE II - SEALS								
Format for Seal Sel								
Specify 12 charac	cters ı				_	Α	vailabi	lity
			Required Seal			STR9xx —		1
	st 3 character						.Ψ	Ψ.
	selecting requ	_		fy			3D	4G
only the	e 9 selections					Selection		
			No Fill Fluid			0	3	3
		Silio	cone (DC 200)		1	•	•
Secondary Fill		0.11	CTFE	4.		2	•	•
			cone (DC 704			3	р	р
			obee (M20) *			4	•	•
			therm 800 **			5	р	р
	No Capillary		•			_0	3	3
		5 feet	1.5 m			_A	•	•
		10 feet	3.0 m			_B	•	•
		15 feet	4.5 m		SS Armor	_C	•	•
		20 feet 25 feet	6.1 m 7.5 m			_D		:
Connection of	0		_			_E		-
Remote Seal to	Capillary Length	35 feet	10.7 m			F		•
Meter Body	Lengui	5 feet 10 feet	1.5 m 3.0 m			_G		:
		15 feet	3.0 m			_H		:
		20 feet	6.1 m	PV	C Coated SS Armor	 _K	.	•
		25 feet	7.5 m					
		35 feet	10.7 m			 M	١.	١.١
	2 inch long S	SS nipple clos				2	z	z
No Selection	2 mon long c	oc mppic dide	oc coupicu			0	<u>-</u>	-
No Seal Attached	I to Core Tran	nemitter				00000000	3	3
No Seal Attached		I				00000000	+	
	Diaphragm Diameter	Flange Size			essure Rating *	Selection		
					Class 150	AFA	•	•
	3.5"	3"	ANSI Class 300			AFC	•	•
			DIN	ID V	N80-PN40	AFM	•	•
			Diaphragn		Upper Insert	Selection		
			316L SS		316 SS	AA	•	•
	Wetted	Material	Hastelloy		316 SS	AB	•	•
EL de Electrica	l	materia.	Hastelloy	С	Hastelloy C	AC	•	•
Flush Flanged			Monel		Monel	AE	•	•
Seal			Tantalum		Tantalum ^a	AF	1	1
	Flance	Material	CS	(Nic	ckel Plated)	1	•	•
	riange	iviateriai		31	16 SS	22	•	•
	Seal-C	apillary	C	ente	er of Seal	1	•	•
	Conn	ection	5	Side	e of Seal	2	9	9
				N	None	A_	•	•
					16 SS	B_	5	5
	Calibrati	on Rings			stelloy C	С	5	5
			'		Monel			
				IV	/ioriei	D_	5	5

Table II continued next page

Availability
STR9xx

TABLE II - SEALS (continued)

		Description	Selection	3D	4G
	Flushing	None	0	•	•
Connections and Plugs** Metal plug material	Connections	One 1/4" with plastic plug	Н	6	6
	One 1/4" with metal plug	J	6	6	
	Metal plug material	Two 1/4" with plastic plugs	M	6	6
Flush Flanged Seal	will be the same as	Two 1/4" with metal plugs	N	6	6
Seal	Lower material, if	One 1/2" with plastic plug	P	6	6
	metal plug is chosen -	One 1/2" with metal plug	Q	6	6
	(SS Plug for CS Lower	Two 1/2" with plastic plugs	R	6	6
	and Tantalum Clad)	Two 1/2" with metal plugs	S	6	6

Table II continued below

- * Standard facing 125-250 AARH RF (raised face) serrated surface finish.
- ** Limited vacuum availability.
- *** Minimum static pressure requirement. No vacuum allowed. See Specification Figure 13.
- **** Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation
- a Tantalum Upper insert has Tantalum wetted parts and 316SS or CS non-wetted parts

						STR9xx —		٦.
							.₩	.₩
TABLE II - SEAL	S (continued	d)					3D	4G
	Diaphragm Diameter	Flange Size	Flange P		Const See Spec. Figure 34-	Selection		
	Diameter		Ratii	ng "	ST-03-57			
		1"	ANSI	150	22	BCA	•	•
			ANSI	300	22	BCC	•	•
		1-1/2"	ANSI	150	22	BGA	٦•١	•
	2.4"	1-1/2	ANSI	300	22	BGC	•	•
		2"	ANSI	150	22	BDA	•	•
			ANSI	300	22	BDC	_ • '	•
		3"	ANSI	150	22	BFA	•	•
-			ANSI	300	22	BFC	•	•
	2.9"	1/2"	ANSI	150	23	CAA	•	•
		1"	ANSI	150	23	CCA	•	•
		•	ANSI	300	23	CCC	•	•
Flush Flanged		1-1/2"	ANSI	150	22	CGA	•	•
Seal with Lower		,	ANSI	300	22	CGC	_ •	•
		2"	ANSI	150	22	CDA	•	•
		_	ANSI	300	22	CDC	•	•
		1/2"	ANSI	150	23	DAA	•	•
		1"	ANSI	150	23	DCA	•	•
		'	ANSI	300	23	DCC	_ •	•
		1-1/2"	ANSI	150	23	DGA	•	•
	4.1"	1-1/2	ANSI	300	23	DGC	_ • '	•
		2"	ANSI	150	23	DDA	•	•
			ANSI	300	22	DDC	•	•
		3"	ANSI	150	22	DFA	•	•
		3	ANSI	300	22	DFC	•	•

Table II continued next page

Availability

					STR9xx	.I.	J.
TABLE II - SEAL	S (continue)	4)				₩ 3D	₩
TABLE II - OLAL		4)	Diaphragm	Lower	Selection	35	70
			316L SS	316 SS	BA		•
			Hastelloy C	316 SS	BB		
	Wetted Material		Hastelloy C	Hastelloy C	BC	١.	
			Monel	Monel	BE		
			Tantalum	316 SS	BF	1	1
			Tantalum	Hastelloy C	BG	<u>'</u>	1
				·		1	
			Tantalum	Tantalum Clad	BH	10	10
	Non-Wette	ed Material	Upper	Upper Insert	Selection		_
	(upper, up	per insert)	316 SS	316 SS	4	•	•
		· · ·	Carbon Steel	316 SS	5	•	•
Flush Flanged	Bolt	S***	No S	Selection	0	•	•
Seal with Lower	Flushing		None		0 _	•	•
(continued)	Connections		One 1/4" with pl	astic plug	H_	•	•
(,	and Plugs**		One 1/4" with m	etal plug	J _	•	•
	Metal plug i	material	Two 1/4" with pla	astic plugs	M_	•	•
	will be the s		Two 1/4" with m		N_	•	•
	Lower mate	rial, if	One 1/2" with pl	astic plug	P_		•
	metal plug i	s chosen -	One 1/2" with m		Q_		•
-	(SS Plug fo		Two 1/2" with pla	. •	R_		•
	and Tantalu		Two 1/2" with m		S		
	and rantale	0.00)	Klinger C-4401	otal plago	K	С	С
			(non-asbesto	s)		ľ	Ĭ
	Gas	sket	Grafoil	0)	G	١.	
	Cax	SKCt	Teflon			c	_
			Gylon 3510		'	d	c d
	Diaphragm					_	<u> </u>
	Diameter	Flange Size	Flange Pre	ssure Rating *	Selection		
		3"	ANSI	Class 150	EFA	•	•
	2.8"	(2.8" OD	ANSI	Class 300	EFC	•	•
		extension)	DIN DI	N80-PN40	EFM	•	•
		4"	ANSI	Class 150	FGA	•	•
	3.5"	(3.70" OD	ANSI	Class 300	FGC		•
	0.0	extension)		1100-PN40	FGP		
Flamma Canlusith	-	CATORIOIOTI)	Diaphragm	Ext. Tube	Selection		
Flange Seal with Extended			316L SS	316 SS	EA		•
Diaphragm	Wetted	Material	Hastelloy C	316 SS			
Diaphilagin			Hastelloy C	Hastelloy C			
					EC	•	•
	Flange	Material		ckel Plated) 16 SS	//	•	•
	D-	14.0			8	•	•
	Вс	OITS	No S	Selection	0	•	•
	_			2"	2	•	•
	Extensio	n Length		4"	4_	•	•
				6"	6_	•	•
	No Se	lection	No S	Selection	0	•	•

Table II continued next page

- * Standard facing 125-250 AARH RF (raised face) serrated finish.
- ** Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation
- *** Bolt material will be same as Upper Material. However, if Table III bolt/nut option chosen, seal bolt material will be the same.

		STR9xx	_	7			
						.₩	Ψ.
TABLE II - SEAL	S (continued	d)		1		3D	4G
	Diaphragm Diameter	Flange Size		e Rating Dependent omer Flange	Selection		
	3.5"	3"	ANSI Class	s 150/300/600	GFA	•	•
			Diaphragm	Body	Selection		
			316L SS	316 SS	GA	•	•
	Wetted	Material	Hastelloy C	316 SS	GB	•	•
	vveiled	ivialeriai	Hastelloy C	Hastelloy C	GC	•	•
			Monel	Monel	GE	•	•
			Tantalum	Tantalum ^a	GG	1	1
	Non-Wette	d Materials	No S	election	00	•	٠
	No Se	lection	No S	election	0	•	•
			N	lone	A_	•	•
Pancake Seal	Calibration	on Dingo	316 SS		B_	5	5
i ancake ocai	Calibration	on Kings	Has	telloy C	C_	5	5
			N	lonel	D_	5	5
	Flushing		None		0	•	•
	Connections		One 1/4" with pla	astic plug	H	6	6
	and Plugs**		One 1/4" with m	etal plug	J	6	6
	Metal plug r	material	Two 1/4" with pla	astic plugs	M	6	6
	will be the s	ame as	Two 1/4" with me	. •	N	6	6
	Lower mate	erial, if	One 1/2" with pla	astic plug	P	6	6
	metal plug i	s chosen -	One 1/2" with m	etal plug	Q	6	6
	(SS Plug fo	r CS Lower	Two 1/2" with pla		R	6	6
	and Tantalu	ım Clad)	Two 1/2" with me	etal plugs	S	6	6

Table II continued below

- a Tantalum Body has Tantalum wetted parts and 316SS non-wetted parts
- *** Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation

					STR9xx —	T	J
TABLE II - SEAL	S (continued	d)				▼ 3D	4G
	Diaphragm Diameter	Flange Size	Flange Pre	essure Rating	Selection		
	3.5"	Taylor Wedge 5" O.D.	75	750 psi HM0		v	
			Diaphragm	Body	Selection		
	Wetted	Matarial	316L SS	316 SS	HA	•	
Chemical Tee	vveileu	ivialeriai	Hastelloy C	316 SS	HB	•	
"Taylor" Wedge			Hastelloy C	Hastelloy C	HC	•	
	Non-Wette	ed Material	No S	election	0	•	
. [Во	lts	No S	election	0	•	
	Sty	Styles		election	0	•	
	No Se	lection	No S	election	0	•	

Table II continued next page

							vailab	oility
						STR9xx ——	$\overline{\mathbf{V}}$	\
TABLE II - SEA	LS (continued	d)					3D	4G
	Diambasana	Thread	ded Process	Seal Pr				
	Diaphragm Diameter	Connection F	Size (NPT emale)	Rati C.S. Bolts	ng * 304 SS Bolts	Selection		
		1/	2" NPT			JJG	•	•
	2.4"	3/	4" NPT	2500 psi	1250 psi	JKG	•	•
		1	" NPT			JLG	•	•
		1/	2" NPT			KJG	•	•
	2.9"		4" NPT	2500 psi	1250 psi	KKG	•	•
			" NPT			KLG	•	•
			2" NPT			LJG	•	•
	4.1"		4" NPT	1500 psi	750 psi	LKG	•	•
		1	" NPT			LLG	•	•
			Diaphragm	Lov		Selection		
		316L SS 316L SS	Carbor		JA	•	•	
				316		JB	•	•
	Wetted	Material	Hastelloy C	316		JC	•	:
			Hastelloy C Monel	Haste Mo	,	JD		١.
			Tantalum	316	-	JE JF	1	1
Seal with				Haste		JG	1	' 1
Threaded	Non-Wette	d Material	Tantalum CS (Nic	kel Plated		A		H:
Process	(up)		,	Stainless Steel		C	w	w
Connection			Carbon Steel			C	1	1
	Bolt	S***	304 SS			D	•	•
	Flushing		None			0	•	•
	Connections		One 1/4" with plastic plug			H_	•	•
	and Plugs**		One 1/4" with m	etal plug		J_	•	•
	Metal plug r	material	Two 1/4" with plastic plugs			M_	•	•
	will be the s		Two 1/4" with m			N_	•	•
	Lower mate	*	One 1/2" with pl			P_	11	1
	metal plug i		One 1/2" with m			Q_	11	1
	(SS Plug fo		Two 1/2" with plastic plugs			R_	11	1
	and Tantalu	ım Clad)	Two 1/2" with m	etal plugs		S	11	1
			Klinger C-4401	۵)		K	С	С
	0	alea#	(non-asbesto	s)		•		
	Gas	sket	Teflon			G	•	•
						!	C	C
			Gylon 3510			L	d	d

Table II continued next page

^{*} Caution: Maximum working pressure of STR93D transmitter is 750 psi and STR94G transmitter

is 500 psig. Damage to sensor may result if pressure limit is exceeded.

^{**} Plastic Plugs are TEMPORARY ONLY to protect threads and MUST be REMOVED before installation

^{***} If Table III Bolt/Nut option is chosen, Seal bolts will ship as same material, and MAWP may change.

						•	•
TABLE II - SEAL		d)	T			3D	4G
	Diaphragm Diameter	Flange Size	Pressu	ıre Rating	Selection		
	1.9"	2"			MD0	g	•
	2.4"	2-1/2"	Customer clam	p rating or 600 psi,	NE0	•	
	2.9"	3"	whiche	ver is less	PF0	•	
	4.1"	4"			QG0	•	
	Wetted	Material	Diaphragm	Body	Selection		
Sanitary Seal	vveileu	ivialeriai	316L SS	316 SS	NA	•	•
	Non-Wette	ed Material	No S	election	0	•	:
	Во	lts	No S	election	0	•	•
	Sty	les	Tri-Clove	er Tri-Clamp	8	•	•
	Gas	sket	No S	election	0	•	•
			Seal Press	ure Rating * *			
	Diaphragm Diameter	Size and Bolt Pattern	C.S. Bolts	304 SS Bolts	Selection		
	2.4"	for 3" Pipe ?			RFK	•	•
	8-Bolt Design	4" pipe	1500 psi	1500 psi	RGK	•	•
	2.4" 6-Bolt	for 3" Pipe ?	1250 psi	1250 psi	RPK	•	•
	Design	4" pipe	1200 psi	1200 psi	RQK	•	•
			Diaphragm	Lower Housing	Selection		
			316L SS	Carbon Steel	RA	•	•
			316L SS	316 SS	RB	•	•
Saddle Seal	Wetted	Material	Hastelloy C	316 SS	RC	•	•
			Hastelloy C	Hastelloy C	RD	•	•
			316L SS	N/A-Body Only	SB	•	•
			Hastelloy C	N/A-Body Only	SC	•	•
			Body	Bolts *, ***	Selection		
	Non-Wette	ed Material	Carbon Steel	Carbon Steel	B	1	1
			316 SS	304 SS	C	•	•
	No Se	lection		election	0	•	•
	Sty	les		election	0 _	•	•
			Klinger C-4401	`	K	•	•
	Gas	sket	(non-asbestos Grafoil Teflon	5)	G T	•	

STR9xx -

Gylon 3510

^{*} Bolts are not included with "Body only" selection.

^{**} Caution: Maximum working pressure of STR93D transmitter is 750 psi and STR94G transmitter is 500 psig. Damage to sensor may result if pressure limit is exceeded.

^{***} If Table III Bolt/Nut option is chosen, Seal bolts will ship as same material, and MAWP may change.

None		STR9xx	\downarrow	J	
Communication Options HACT & Protocol Compatible Electronics FF F F F F F F F F	TABLE III - OPTIONS	Selection	3D	4G	1
HART 5.x Protocol Compatible Electronics HART 6.x Protocol Compatible Electronics HART 6.x Protocol Compatible Electronics FOUNDATION Fieldbus Communications FFF r r r r Indicating Meter Options Analog Meter (0-100 Even 0-10 Square Root) ME	None	00	•	•	
HART 6.x Protocol Compatible Electronics FOUNDATION Fleidbus Communications FF r r Indicating Meter Options Analog Meter (0-100 Even 0-10 Square Root) Smart Meter SM w w Custom Configuration of Smart Meter CI m m Custom Calibration and Span Transmitter Housing & Electronics Options NAMUR Failsafe Software SIL 2 - TOV Certified transmitter (requires HC and WP options) LP v Custom Calibration and I.D. in Memory CC v Custom Calibration (Delivered in the "disabled" position) WP v Write Protection (Delivered in the "disabled" position) WP v Write Protection (Delivered in the "disabled" position) WX v 316 SS Electronics Housing - with M20 Conduit Connections SH n n 1/2" NPT to M20 316SS Conduit Adapter (EASEEA EEx d IIC) A1 n n 1/2" NPT to M20 316SS Conduit Adapter (EASEEA EEx d IIC) A1 A1 n n 1/2" NPT to M20 316SS Conduit Adapter (EASEEA EEx d IIC) A1 A1 A1 A4 A4 A4 A4 A4	·				Ц
FOUNDATION Fieldbus Communications FF	· '				_b
Indicating Meter (0-100 Even 0-10 Square Root) Analog Meter (0-100 Even 0-10 Square Root) Smart Metler Custom Configuration of Smart Meter Local Zero Local Zero and Span Transmitter Housing & Electronics Options NAMUR Failsafe Software SIL 2 - TUV Certified transmitter (requires HC and WP options) Lightning Protection Custom Calibration and LD. in Memory Transmitter Configuration Custom Calibration and LD. in Memory Transmitter Configuration Write Protection (Delivered in the "enabled" position) Write Protection (Delivered in the "disabled" position (Delivered in the "disabled" p					٦
Analog Meter (O-100 Even 0-10 Square Root) Smart Meter Custom Configuration of Smart Meter Local Zero Local Zero and Span Transmitter Housing & Electronics Options NAMUR Failaste Software Silt 2 - TUV Certified transmitter (requires HC and WP options) Lightning Protection Custom Calibration and I.D. in Memory Transmitter Configuration Custom Calibration and I.D. in Memory CCC Transmitter Configuration Wire Protection (Delivered in the "enabled" position) Wire Protection (Delivered in the "disabled" position) Tall and the "disabled" position of the "disabled"		FF	l r	l r	Н
Smart Meter Custom Configuration of Smart Meter Local Zero Local Zero Local Zero and Span Transmitter Housing & Electronics Options NAMUR Failsafe Software Silt 2 - TUV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 2 - TuV Certified transmitter (requires HC and WP options) Silt 1 - TuV Certified (Fire MC and MP options) Silt 1 - TuV Certified (Fire MC and MP options) Si	,	ME	١.	١.	Н
Custom Configuration of Smart Meter			•	.	¦b
Local Zero and Span		_	l m	l m	Н
Transmitter Housing & Electronics Options NAMUR Falisafe Software Sit 2 - TUV Certified transmitter (requires HC and WP options) Lightning Protection Custom Calibration and LD. in Memory Transmitter Configuration Withe Protection (Delivered in the "enabled" position) Withe Protection (Delivered in the "disabled" position) Withe Protection (Delivered in the "disabled" position) With Protection (Delivered in the "disabled" position in the India Nation (Protection India Nation India Nation (Protection India Nation (Protection India Nation India Nati	=				
Transmitter Housing & Electronics Options NAMUR Fallaste Software Sit. 2 - TUV Certified transmitter (requires HC and WP options) Sit. 2 - TUV Certified transmitter (requires HC and WP options) Sit. 2 - TUV Certified transmitter (requires HC and WP options) Lip					
NAMUR Failsafe Software SIL 2 - TDV Certified transmitter (requires HC and WP options) SIL 2 - TDV Certified transmitter (requires HC and WP options) Lightning Protection Custom Calibration and I.D. in Memory Transmitter Configuration Write Protection (Delivered in the "enabled" position) Write Protection (Delivered in the "disabled" position) Write Protection (De	· '				
Lightning Protection Custom Calibration and I.D. in Memory Transmitter Configuration Write Protection (Delivered in the "enabled" position) Write Protection (Delivered in the "disabled" position) Write Protection (Delivered in the "disabled" position) 316 SS Electronics Housing - with M20 Conduit Connections SH n n n 1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC) 1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC) 1/2" NPT to M24" NPT 316 SS Conduit Adapter Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit Adapter (use for FM and CSA Approvals) Stainless Steel Gustomer Wired-On Tag (4 lines, 28 characters per line, customer supplied information) Stainless Steel Customer Wired-On Tag (blank) End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D) End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D) End Cap Live Circuit Warning Label in Grund (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circu		NE	15	15	
Custom Calibration and I.D. in Memory Transmitter Configuration Write Protection (Delivered in the "enabled" position) Write Protection (Delivered in the "disabled" position in the Interval in the Interval in Interval in Interval in Interval in Interval in Interval in Interval	SIL 2 - TÜV Certified transmitter (requires HC and WP options)	SL	14	14	
Transmitter Configuration Write Protection (Delivered in the "enabled" position) Write Protection (Delivered in the "disabled" position) With Protection (Delivered in the "disabled" position) With Protection (Delivered in the "disabled" position) With Assistance of the protection (Delivered in the "disabled" position) With Protection (Delivered in the "disabled" position) With Protection (Delivered in the "disabled" position) With Assistance of the protection of the protectio		LP	•	•	
Write Protection (Delivered in the "enabled" position) Write Protection (Delivered in the "disabled" position) Write Protection (Delivered in the "disabled" position) 316 SS Electronics Housing - with M2O conduit Connections SH n n n 1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC) A1 u u u the standard of t	Custom Calibration and I.D. in Memory	CC	•	•	
Write Protection (Delivered in the "disabled" position) 316 SS Electronics Housing - with M20 Conduit Connections 316 SS Electronics Housing - with M20 Conduit Connections 3172" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC) A1 n n n n 1/2" NPT to 3/4" NPT 316 SS Conduit Adapter Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit Adapter (use for FM and CSA Approvals) Stainless Steel Customer Wired-On Tag (4 lines, 28 characters per line, customer supplied information) Stainless Steel Customer Wired-On Tag (blank) End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D) End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D) End Cap Live Circuit Warning Label in Halian (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End Cap Live Circuit Warning Label in German (only with ATEX 3D) End SS (NACE) Bolts and 304 SS (NACE) Nuts for Heads 316 SS Bolts and 316 SS Nuts for Process Heads SS PR Metors And Nuts for Process Heads SR PR Bolts and Nuts for Process Heads B7 * Remote Seal Options Gold Plated Seal Diaphragm (1 Seal) Gold Plated Seal Diaphragm (2 Seals) Teflon Coated Seal Diaphragm (2 Seals) Teflon Coated Seal Diaphragms(2 Seals) - only for anti-sticking Tensmitter Mounting Brackets Options Mounting Bracket - Carbon Steel MB MB MB * Certificate Sptions Lusers Manual Paper Copy (Standard, HC or FF ships accordingly) Clean Transmitter & Seals for Oxygen or Chlorine Service with Certificate TP Calibration Test Report and Certificate of Conformance (F3399) F1 * Certificate of Conformance (F3391) Certificate of Conformance (F3391) Certificate (F0198) for welded meter bodies only MAT	Transmitter Configuration	TC	•	٠ ا	
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NACE Certificate (F0198) NACE Certificate (F0198) F7 NACE Certificate (F0198) for welded meter bodies only Marine Type Approvals (DNV, ABS, BV & LR) Warranty Options Additional Warranty - 1 year Additional Warranty - 2 years F7 B8 T0 T1 T8 W1 T1 T8 W1 T8 W1 T8 W1 T8 T8 T8 T8 T8 T8 T8 T8 T8 T			•	•	
NACE Certificate (F0198) for welded meter bodies only Marine Type Approvals (DNV, ABS, BV & LR) Warranty Options Additional Warranty - 1 year Additional Warranty - 2 years Here is a control of the second of the			ايًا	[\vdash
Marine Type Approvals (DNV, ABS, BV & LR) Warranty Options Additional Warranty - 1 year Additional Warranty - 2 years MT 2 2 2 4 5 6 7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9				ľ	ib
Warranty OptionsW1•Additional Warranty - 1 yearW1•Additional Warranty - 2 yearsW2•				,	\vdash
Additional Warranty - 1 year Additional Warranty - 2 years W1 • • • • •		IVII			
Additional Warranty - 2 years W2 • •		W/1	 .	١.	\Box
I W3 I • I • I	Additional Warranty - 3 years	W3			b
Additional Warranty - 4 years W4 • •					

Table III continued next page

			STR9xx	\downarrow	
TABLE III - C	OPTIONS (continued)			3D	4G
Approval Body	Approval Type	Location or Classification	Selection		
No hazardou	us location approvals		9X	•	
	Explosion Proof	Class I, Div. 1, Groups A,B,C,D			
Cootom:	Dust Ignition Proof	Class II, III Div. 1, Groups E,F,G			
Factory Mutual	Non-Incendive	Class I, Div. 2, Groups A,B,C,D	1C	•	
Mutuai	Intrinsically Safe	Class I, II, III, Div. 1, Groups			
	Intilisically Sale	A,B,C,D,E,F,G			
	Explosion Proof	Class I, Div. 1, Groups B,C,D			
004	Dust Ignition Proof	Class II, III, Div. 1, Groups E,F,G			
CSA		Class I, II, III, Div. 1, Groups	2J	•	١.
Inti	Intrinsically Safe	A,B,C,D,E,F,G			
SA	Intrinsically Safe	Ex ia IIC T4	40		
(Australia)	Non-Sparking	Ex n IIC T6 (T4 with SM option)	4G	•	١.
	Intrinsically Safe, Zone 0/1	⑤Ⅱ1 G EEx ia IIC T4, T5,T6	3S	•	•
	Flameproof, Zone 1	(Ex) 2 G EEx d IIC T5, T6, Enclosure P 66/67	3D	•	•
ATEX*	Non-Sparking, Zone 2	(Honeywell). Enclosure IP 66/67	3N	•	•
	Multiple Marking**	Ex II 1 G EEx ia IIC T4, T5, T6			
	Int. Safe, Zone 0/1, or	Ex II 2 G EEx d IIC T5, T6	3H		١.
	Flameproof, Zone 1, or	Ex II 3 G EEx nA, IIC T6 (Honeywell)	J⊓ 3⊓	•	•
	Non-Sparking, Zone 2	Enclosure IP 66/67			
INMETRO (Brazil)	Flameproof, Zone 1	Ex d IIC T5	6D	•	•

^{*}See ATEX installation requirements in the ST 3000 User's Manual

TABLE IV

Factory Identification	XXXX	•	•

^{**}The user must determine the type of protection required for installation of the equipment. The user shall then check the box [_] adjacent to the type of protection used on the equipment certification nameplate. Once a type of protection has been checked on the nameplate, subsequently the equipment shall not be reinstalled using any of the other certification types.

RESTRICTIONS

Restriction		Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
а	III	3D or 3H		
b		Select only one option	n from this gro	oup
С			11	BF, BG, BH, JF, JG,
d	II	BF, BG, JF, JG,		
е			III	4G
g	=	_A, _B, _C, _G, _H, _J, _2,		
h	I, II	2 - 2		
i	İII	1C or 2J		
j			11	AF BF BG GG JF JG
m	III	SM		
n			III	1C, 2J
0	III	CR		,
p			II	DC704 and Syltherm 800 fills and close-couple require SS seal upper.
q	II	0 2 , 4		
r			III	TC, ME, 4G, 3S
s			III	FF, ME

Restrictions continued next page

RESTRICTIONS - (continued)

Restriction	NS - (continued	Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
u	III	1C, 2J		
v	I	2		
w			ll ll	JA
x	Ш	FF, SM		
		,	III	MB, SB, FB
				DC704 and Syltherm 800
				fills and close-couple require
				SS seal upper.
				BCA5,
				CAA 5,
				CCA 5,
				CCC5,
				DAA 5,
у				DCA 5,
				DCC5,
				DGA5,
				DGC5,
				DDA 5,
				GE,
				A
				B
			1	2
			II	_A - M
z	ı	D		
1			III	F7
2			III	FB
3	ı	5, 1		
5			II	0
6			ll ll	A
			1	1,3
7			III	
8			III	CC,G1,G2,T1,T2,OX,TP,MT,WP
		AA2	- ""	CC,G1,G2,11,12,OX,111,W11,W1
9	II	AA2 AB2		
40	II		II	т
10	II	0_	III	F7
				JJG
				JKG
11			l II	JLG
			"	CAA
				CCA
		110 1117		ccc
14	III	HC, WP	III	FF, 00
15			III	FF
16	I	C		

Notes: See ST-83 for Published Specials with pricing.

See ST-89 and User's Manual for part numbers.

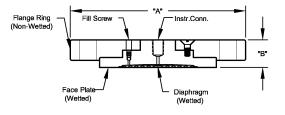
See COMS Order Entry Information including TC, manuals, certificates, drawings and SPINS.

See ST-OD-1 for tagging, ID, Transmitter Configuration (TC) and calibration including factory default values.

To request a quotation for a non-published "special", fax RFQ with Application Data Sheet (34-ST-18-01) to Marketing Applications.

Dimensions and drawings

		Non-	Wetted I	Materials	Construction	Dimension	
Туре	Size	Wetted	Diaphragm	Upper Insert	Construction	3.5" Diaphragm Dia. (in.)	
		Material	Diapiliagili	· · · · · · · · · · · See Fidure L		A A	В
		cs	All	All	21a	7.50	1.08
	3" 150	SS	316L SS Hast C Hast C Monel Tantalum	N/A SS Hast C Monel Tantalum	21b 21b 21a 21a 21a 21a	7.50	0.94 0.94 1.08 1.08 1.08
		cs	All	All	21a	8.25	1.26
Flush Flanged		SS	316L SS Hast C Hast C Monel Tantalum	N/A SS Hast C Monel Tantalum	21b 21b 21a 21a 21a 21a	8.25	1.12 1.12 1.26 1.26 1.26
Seal		cs	All	All	21a	8.25	1.50
	3" 600	SS	316L SS Hast C Hast C Monel Tantalum	N/A SS Hast C Monel Tantalum	21b 21b 21a 21a 21a 21a	8.25	1.50 1.50 1.50 1.50 1.50
		cs	All	All	21a	7.87	1.02
DN80- PN40	SS	316L SS Hast C Hast C Monel Tantalum	N/A SS Hast C Monel Tantalum	21b 21b 21a 21a 21a 21a	7.87	0.94 0.94 1.02 1.02 1.02	





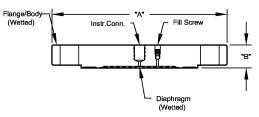


Figure 21b. Flush Flanged Seal

Туре	s	ize	Dim.	2.4" Diaph. Dia. (in.)	2.9" Diaph. Dia. (in.)	4.1" Diaph. Dia. (in.)	
		1/2"	A B0 B1 B2	□ 3.50 □ 1.72 □ 1.72 □ 2.22	□ 4.00 □ 1.72 □ 1.72 □ 2.22	□ 5.25 □ 1.84 □ 1.84 □ 2.34	
		1"	A B0 B1 B2	o 4.25 o 1.12 o 1.62 o 1.98	□ 4.00 □ 1.72 □ 1.72 □ 2.22	□ 5.25 □ 1.84 □ 1.84 □ 2.34	
	150#	1-1/2"	A B0 B1 B2	o 5.00 o 1.17 o 1.67 o 2.02	o 5.00 o 1.72 o 1.72 o 2.22	□ 5.25 □ 1.78 □ 2.12 □ 2.12	
		2"	A B0 B1 B2	o 6.00 o 1.34 o 1.84 o 2.34	0 6.00 0 1.34 0 1.84 0 2.34	□ 6.00 □ 2.12 □ 2.12 □ 2.12	
		3"	A B0 B1 B2	7.501.532.032.53	7.501.532.032.53	o 7.50 o 1.63 o 2.03 o 2.43	
		1"	A B0 B1 B2	o 4.88 o 1.27 o 1.77 o 2.27	□ 4.00 □ 1.72 □ 1.72 □ 2.22	□ 5.25 □ 1.88 □ 2.12 □ 2.12	
Flush Flanged Seal With Lower	300#	300#	1-1/2"	A B0 B1 B2	O 6.12 O 1.40 O 1.90 O 2.40	O 6.12 O 1.40 O 1.96 O 2.46	□ 5.25 □ 2.12 □ 2.12 □ 2.12
Lower			2"	A B0 B1 B2	0 6.50 0 1.47 0 1.97 0 2.47	O 6.50 O 1.47 O 1.97 O 2.47	0 6.50 0 1.67 0 2.17 0 2.47
				3"	A B0 B1 B2	0 8.25 0 2.09 0 2.21 0 2.61	0 8.25 0 2.09 0 2.21 0 2.61
		1"	A B0 B1 B2	o 4.88 o 1.84 o 1.84 o 2.34	□ 4.50 □ 2.15 □ 2.15 □ 2.40	o 5.25 o 2.26 o 2.26 o 2.50	
		1-1/2"	A B0 B1 B2	0 6.12 0 1.78 0 2.03 0 2.53	0 6.12 0 1.53 0 2.09 0 2.49	o 5.25 o 2.39 o 2.39 o 2.50	
	600#	2"	A B0 B1 B2	0 6.50 0 1.65 0 2.15 0 2.65	0 6.50 0 1.65 0 2.15 0 2.65	0 6.50 0 1.85 0 2.25 0 2.63	
		3"	A B0 B1 B2	0 8.25 0 2.28 0 2.40 0 2.80	0 8.25 0 2.28 0 2.40 0 2.80	0 8.25 0 2.28 0 2.40 0 2.80	

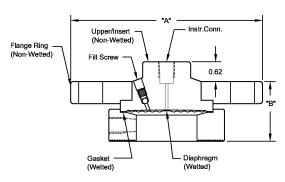


Figure 22 Flush Flanged Seal with Lower

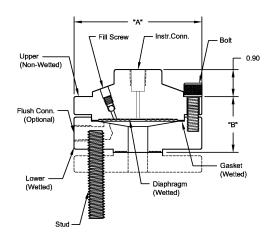


Figure 23 Flush Flanged Seal with Lower

Note: 0.90 Dimension is 0.70 for 4.1 Dia. Diaphragm

T	6:		2.8"	3.5"
Type	Size	Dim.	Diaph. Dia. (in.)	Diaph. Dia. (in.)
	0"	Α	7.50	-
	3"	В	0.94	-
	150	С	2.80	-
	3"	Α	8.25	-
	300	В	1.12	-
	300	С	2.80	-
	DIN	Α	7.87	-
Flanged	DN80-	В	0.94	-
Seal With	PN40	С	2.80	-
Extended	4" 150	Α	-	9.00
Diaphragam		В	-	0.94
		С	-	3.70
	4"	Α	-	10.00
	300	В	-	1.25
	300	С	-	3.70
	DIN	Α	-	9.25
	DN100-	В	-	0.94
	PN40	С	-	3.70

^{*} Designed to mate with Sch 40 pipe

Туре	Size	Dimension	3.5" Diaph. Dia. (in.)
Pancake	150/300/600	Α	5.00
Seal	150/300/600	В	1.08

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

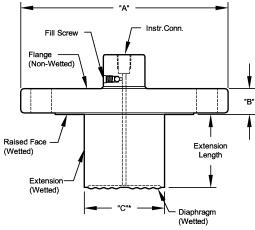


Figure 24 Flange Extended Seal

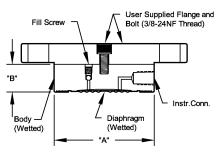


Figure 25 Pancake Seal

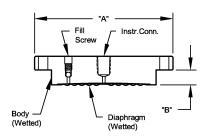


Figure 26 Chemical Tee "Taylor Wedge"

Туре	Size	Dim.	2.4" Diaph. Dia. (in.)	2.9" Diaph. Dia. (in.)	4.1" Diaph. Dia. (in.)
Seal With Threaded Process Connection	1/4" or 1/2"	A B0 B1 B2	3.50 1.66 1.66 2.16	4.00 1.66 1.66 2.16	5.25 1.79 1.79 2.14
	3/4" or 1"	A B0 B1 B2	3.50 1.66 1.66 2.16	4.00 1.66 1.66 2.16	5.25 1.79 1.79 2.14

B0 = B dimension for No Flush B1 = B dimension for 1/4 NPT B2 = B dimension for 1/2 NPT

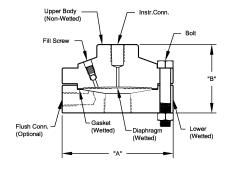


Figure 27 Threaded Process Connection

			1.9"	2.4"	2.9"	4.1"
Туре	Size	Dim.	Diaph.	Diaph.	Diaph.	Diaph.
			Dia. (in.)	Dia. (in.)	Dia. (in.)	Dia. (in.)
	2"	Α	2.50	-	-	-
	-	В	1.42	-	-	-
	2-1/2"	Α	-	3.00	-	
Sanitary		В	-	1.28	-	-
Seal		Α	-	-	3.57	
		В	-	-	1.38	-
	4"	Α	-	-	-	4.68
	4"	В	l -	-	-	1.60

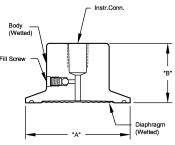


Figure 28 Sanitary Seal

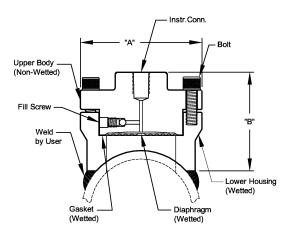


Figure 29 3" Saddle Seal

Туре	Size	Dimension	2.4" Diaph. Dia.
	3"	Α	3.50
Saddle	ိ	В	2.90
Seal	4" or	Α	3.50
	larger	В	3.04

Note: Specify 6 or 8 Bolt Pattern

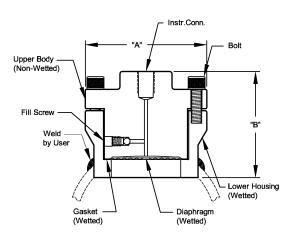


Figure 30 4" or larger Saddle Seal

SIZE	RATING	DIM.	1/4 NPT	1/2 NPT
		Α	5.00	5.00
3"	150/600#	В	1.00	1.50
		С	3.00	3.00

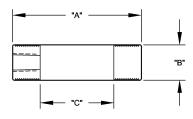


Figure 31 Calibration Ring

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