

## ST 3000 Smart Transmitter Remote Seals (GP/AP) Series 100

## Model Selection Guide With Price Data

Model Selection Guide  
34-ST-16U-33 Issue 23

Honeywell Confidential & Proprietary

### 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 or approvals are desired, specify 9X).  
A (♦) denotes unrestricted availability. A letter denotes restricted availability.  
Restrictions follow Table IV.

|            |       |       |                |      |
|------------|-------|-------|----------------|------|
| Key Number | I     | II    | III (Optional) | IV   |
| _____      | _____ | _____ | _____          | XXXX |

| KEY NUMBER  | Description | Selection | Availability |   |   |
|---|-------------|-----------|--------------|---|---|
| 0-5 to 0-500 psi/0-0.34 bar to 0-35 bar<br>Body Rating *: 500 psi (35 bar)  |             | STR14G    | ↓            |   |   |
| 0-100 to 0-3000 psi/0-7 bar to 210 bar<br>Body Rating *: 3000 psi (172 bar) |             | STR17G    |              | ↓ |   |
| 0-5 to 0-500 psia/0-0.34 to 0-35 bar<br>Body Rating *: 500 psi (35 bar)     |             | STR14A    |              |   | ↓ |

\* Remote seal system pressure rating is body rating or seal rating, whichever is less.

TABLE I - METER BODY

|                     |                                     |       |   |   |   |
|---------------------|-------------------------------------|-------|---|---|---|
| Number of Seals     | 1 Remote Seal (High Side)           | 1 _ _ | ♦ | ♦ | ♦ |
| Fill Fluid          | Silicone (DC 200)                   | _ 1 _ | ♦ | ♦ | ♦ |
| (Meter Body)        | CTFE                                | _ 2 _ | q | q | q |
| <b>Construction</b> | <b>Non-Wetted Material</b>          |       |   |   |   |
| Standard In-line    | 316 St. St. Bonnet                  | _ _ A | ♦ | ♦ |   |
| Design              | 316 St. St. Bonnet for Close-Couple | _ _ D | y | y |   |
| Standard Single     | 316 St. St. Adapter Head            | _ _ A |   |   | ♦ |
| Head Design         | 316 St. St. Head for Close-Couple   | _ _ D |   |   | y |

See Specification Sheet 34-ST-03-64 for figures on construction.

STR14A

STR1\_G

TABLE II - SEALS

Selection

4

7

Format for Seal Selection:

Specify 12 characters

Common

Required Seal

**Note:** The first 3 characters are common to all seals.  
When selecting required seal, you must specify only the 9 selections within the required seal.

Secondary  
Fill

Silicone (DC 200)

CTFE

Silicone (DC 704)

Neobee (M20) \*\*

Syltherm 800 \*\*\*

1 \_ \_ \_ \_ \_

2 \_ \_ \_ \_ \_

3 \_ \_ \_ \_ \_

4 \_ \_ \_ \_ \_

5 \_ \_ \_ \_ \_

♦

♦

♦

♦

♦

♦

p

p

p

♦

♦

♦

p

p

p

Connection  
of Remote  
Seal to  
Meter BodyCapillary  
Length

5 feet

1.5 m

10 feet

3.0 m

15 feet

4.5 m

20 feet

6.1 m

25 feet

7.5 m

35 feet

10.7 m

SS Armor

\_ A \_ \_ \_ \_ \_

\_ B \_ \_ \_ \_ \_

\_ C \_ \_ \_ \_ \_

\_ D \_ \_ \_ \_ \_

\_ E \_ \_ \_ \_ \_

\_ F \_ \_ \_ \_ \_

♦

♦

♦

♦

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♦

PVC Coated  
SS Armor

\_ G \_ \_ \_ \_ \_

\_ H \_ \_ \_ \_ \_

\_ J \_ \_ \_ \_ \_

\_ K \_ \_ \_ \_ \_

\_ L \_ \_ \_ \_ \_

\_ M \_ \_ \_ \_ \_

♦

♦

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♦

2 inch long SS nipple close-coupled

\_ 2 \_ \_ \_ \_ \_

z

z

z

No Selection

\_ \_ 0 \_ \_ \_ \_

♦

♦

♦

Flush  
Flanged  
SealDiaphragm  
DiameterFlange  
SizeFlange Pressure  
Rating \*

3.5"

3"

ANSI Class 150

ANSI Class 300

DIN DN80-PN40

\_ \_ \_ AFA \_ \_ \_ \_

\_ \_ \_ AFC \_ \_ \_ \_

\_ \_ \_ AFM \_ \_ \_ \_

♦

♦

♦

♦

♦

♦

♦

♦

♦

Wetted Material

Diaphragm

Upper  
Insert

316L SS

316 St. St.

Hastelloy C

316 St. St.

Hastelloy C

Hastelloy C

Monel

Monel

\_ \_ \_ \_ \_ AA \_ \_ \_

\_ \_ \_ \_ \_ AB \_ \_ \_

\_ \_ \_ \_ \_ AC \_ \_ \_

\_ \_ \_ \_ \_ AE \_ \_ \_

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

♦

Non-Wetted  
Material (upper)

CS with Polyester

Powder Coating

316 St. St.

\_ \_ \_ \_ \_ 1 \_ \_ \_

\_ \_ \_ \_ \_ 2 \_ \_ \_

♦

♦

♦

♦

♦

♦

Bolts

No Selection

\_ \_ \_ \_ \_ 0 \_ \_

♦

♦

♦

Sytyles

No Selection

\_ \_ \_ \_ \_ 0 \_

♦

♦

♦

Gasket

No Selection

\_ \_ \_ \_ \_ 0 \_

♦

♦

♦

Table II continued next page

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

\*\* Limited vacuum availability.

\*\*\* Minimum static pressure requirement. No vacuum allowed.

See Specification Figure 4.

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

STR14A

STR1\_G

TABLE II - SEALS (continued)

Selection

|                               | Diaphragm Diameter                        | Flange Size                          | Flange Pressure Rating* | Construct. Specification 34-ST-03-64 |             | 4 | 7 |   |
|-------------------------------|---|--------------------------------------|-------------------------|--------------------------------------|-------------|---|---|---|
| Flush Flanged Seal with Lower | 2.4"                                      | 1"                                   | ANSI 150                | 11                                   | --- BCA --- | ♦ | ♦ | t |
|                               |   |                                      | ANSI 300                | 11                                   | --- BCC --- | ♦ | ♦ | t |
|                               |   | 1-1/2"                               | ANSI 150                | 11                                   | --- BGA --- | ♦ | ♦ | t |
|                               |   |                                      | ANSI 300                | 11                                   | --- BGC --- | ♦ | ♦ | t |
|                               |   | 2"                                   | ANSI 150                | 11                                   | --- BDA --- | ♦ | ♦ | t |
|                               |   |                                      | ANSI 300                | 11                                   | --- BDC --- | ♦ | ♦ | t |
|                               |   | 3"                                   | ANSI 150                | 11                                   | --- BFA --- | ♦ | ♦ | t |
|                               |   |                                      | ANSI 300                | 11                                   | --- BFC --- | ♦ | ♦ | t |
|                               | 2.9"                                      | 1/2"                                 | ANSI 150                | 12                                   | --- CAA --- | ♦ | ♦ | ♦ |
|                               |   | 1"                                   | ANSI 150                | 12                                   | --- CCA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 12                                   | --- CCC --- | ♦ | ♦ | ♦ |
|                               |   | 1-1/2"                               | ANSI 150                | 11                                   | --- CGA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 11                                   | --- CGC --- | ♦ | ♦ | ♦ |
|                               |   | 2"                                   | ANSI 150                | 11                                   | --- CDA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 11                                   | --- CDC --- | ♦ | ♦ | ♦ |
|                               | 4.1"                                      | 1/2"                                 | ANSI 150                | 12                                   | --- DAA --- | ♦ | ♦ | ♦ |
|                               |   | 1"                                   | ANSI 150                | 12                                   | --- DCA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 12                                   | --- DCC --- | ♦ | ♦ | ♦ |
|                               |   | 1-1/2"                               | ANSI 150                | 12                                   | --- DGA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 12                                   | --- DGC --- | ♦ | ♦ | ♦ |
|                               |   | 2"                                   | ANSI 150                | 12                                   | --- DDA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 11                                   | --- DDC --- | ♦ | ♦ | ♦ |
|                               |   | 3"                                   | ANSI 150                | 11                                   | --- DFA --- | ♦ | ♦ | ♦ |
|                               |   |                                      | ANSI 300                | 11                                   | --- DFC --- | ♦ | ♦ | ♦ |
|                               | Wetted Material                           | <b>Diaphragm</b>                     |                         | <b>Lower</b>                         |             |   |   |   |
|                               |   | 316L SS                              |                         | 316 St. St.                          | --- BA ---  | ♦ | ♦ | ♦ |
|                               |   | Hastelloy C                          |                         | 316 St. St.                          | --- BB ---  | ♦ | ♦ | ♦ |
|                               |   | Hastelloy C                          |                         | Hastelloy C                          | --- BC ---  | ♦ | ♦ | ♦ |
|                               |   | Monel                                |                         | Monel                                | --- BE ---  | ♦ | ♦ | ♦ |
|                               |   | Tantalum                             |                         | 316 St. St.                          | --- BF ---  | ♦ | ♦ | ♦ |
|                               | Non-Wetted Material (upper, upper insert) | <b>Upper</b>                         |                         | <b>Upper Insert</b>                  |             |   |   |   |
|                               |   | 316 St. St.                          |                         | 316 St. St.                          | --- 4 ---   | ♦ | ♦ | ♦ |
|                               |   | CS                                   |                         | 316 St/ St.                          | --- 5 ---   | ♦ | ♦ | ♦ |
|                               | Bolts                                     |                                      | No Selection            |                                      | --- 0 ---   | ♦ | ♦ |   |
|                               | Styles                                    | Without 1/4" NPT Flushing Connection |                         |                                      | --- 0 ---   | ♦ | ♦ | ♦ |
|                               |   | With 1/4" NPT Flushing Connection    |                         |                                      | --- 7 ---   | ♦ | ♦ | ♦ |
|                               | Gasket                                    | Klinger C-4401 (non-asbestos)        |                         |                                      | --- K ---   | c | c | c |
|                               |   | Grafoil                              |                         |                                      | --- G ---   | d | d | d |

Table II continued next page

\* Standard facing 125-250 AARH RF (raised face) serrated finish.

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

STR14A

STR1\_G

TABLE II - SEALS (continued)

Selection

4

7

| Flange Seal with Extended Diaphragm | Diaphragm Diameter           | Flange Size                | Flange Pressure Rating *                                 |             |             |   |   |
|-------------------------------------|------------------------------|----------------------------|--|-------------|-------------|---|---|
|                                     | 2.9"<br>(2.85")              | 3"<br>(2.85" OD extension) | ANSI Class 150<br>ANSI Class 300<br>DIN DN80-PN40        |             | ___ EFA ___ | ♦ | ♦ |
|                                     |                              |                            |  |             | ___ EFC ___ | ♦ | ♦ |
|                                     |                              |                            |  |             | ___ EFM ___ | ♦ | ♦ |
|                                     | 3.5"                         | 4"<br>(3.70" OD extension) | ANSI Class 150<br>ANSI Class 300<br>DIN DN100-PN40       |             | ___ FGA ___ | ♦ | ♦ |
|                                     |                              |                            |  |             | ___ FGC ___ | ♦ | ♦ |
|                                     |                              |                            |  |             | ___ FGP ___ | ♦ | ♦ |
|                                     | Wetted Material              |                            | Diaphragm  | Lower       | ___ EA ___  | ♦ | ♦ |
|                                     |                              |                            | 316L SS  | 316 St. St. | ___ EB ___  | ♦ | ♦ |
|                                     |                              |                            | Hastelloy C  | 316 St. St. | ___ EC ___  | ♦ | ♦ |
|                                     | Non-Wetted Material (flange) |                            | CS with Polyester Powder Coating                         |             | ___ 7 ___   | ♦ | ♦ |
|                                     | Bolts                        |                            | No Selection   |             | ___ 0 ___   | ♦ | ♦ |
|                                     | Extension Length             |                            | 2"   |             | ___ 2 ___   | ♦ | ♦ |
|                                     |                              |                            | 4"   |             | ___ 4 ___   | ♦ | ♦ |
|                                     |                              |                            | 6"   |             | ___ 6 ___   | ♦ | ♦ |
|                                     |                              |                            | No Selection   |             | ___ 0 ___   | ♦ | ♦ |
| Pancake Seal                        | Diaphragm Diameter           | Flange Size                | Flange Pressure Rating**<br>Dependent on customer flange |             |             |   |   |
|                                     | 3.5"                         | 3"                         | ANSI Class 150/300/600                                   |             | ___ GFA ___ | ♦ | ♦ |
|                                     | Wetted Material              |                            | Diaphragm  | Body        | ___ GA ___  | ♦ | ♦ |
|                                     |                              |                            | 316L SS  | 316 St. St. | ___ GB ___  | ♦ | ♦ |
|                                     |                              |                            | Hastelloy C  | 316 St. St. | ___ GC ___  | ♦ | ♦ |
|                                     |                              |                            | Hastelloy C  | Hastelloy C | ___ GE ___  | ♦ | ♦ |
|                                     | Non-Wetted Material          |                            | No Selection   |             | ___ 0 ___   | ♦ | ♦ |
|                                     | Bolts                        |                            | No Selection   |             | ___ 0 ___   | ♦ | ♦ |
|                                     | Styles                       |                            | No Selection   |             | ___ 0 ___   | ♦ | ♦ |
|                                     |                              |                            | No Selection   |             | ___ 0 ___   | ♦ | ♦ |

Table II continued next page

\* Standard facing 125-250 AARH RF (raised face) serrated finish.

\*\* **Caution:** Maximum working pressure of STR14G and STR14A transmitter is 500 psig and STR17G is 3000 psig. Damage to sensor may result if pressure limit is exceeded.

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

STR14A

STR1\_G

TABLE II - SEALS (continued)

Selection

| TABLE II - SEALS (continued)          |                    |   |                 |  | Selection   |   | 4 | 7 |  |
|---------------------------------------|--------------------|---|-----------------|--|---|---|---|---|--|
| Seal with Threaded Process Connection | Diaphragm Diameter | Threaded Process Connection Size (NPT Female) | Pressure Rating |  | ____ JJG ____<br>____ JKG ____<br>____ JLG ____<br>____ KJG ____<br>____ KKG ____<br>____ KLG ____<br>____ LJG ____<br>____ LKG ____<br>____ LLG ____ | ♦♦♦ |   |   |  |

Table II continued next page

**\*\* Caution:** Maximum working pressure of STR14G and STR14A transmitter is 500 psig and STR17G is 3000 psig. Damage to sensor may result if pressure limit is exceeded.

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

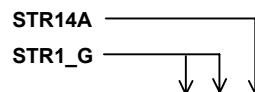


TABLE II - SEALS (continued)

Selection

|               | Diaphragm Diameter  | Flange Size  | Pressure Rating                                      |                   |             | 4 | 7 |   |
|---------------|---------------------|--|--|-------------------|-------------|---|---|---|
| Sanitary Seal | 1.9"                | 2"   | Customer clamp rating or 600 psi, whichever is less. |                   | ___ MD0 ___ | ♦ | ♦ |   |
|               | 2.4"                | 2-1/2"   |  |                   | ___ NE0 ___ | ♦ | ♦ |   |
|               | 2.9"                | 3"   |  |                   | ___ PF0 ___ | ♦ | ♦ | ♦ |
|               | 4.1"                | 4"   |  |                   | ___ QG0 ___ | ♦ | ♦ | ♦ |
|               |                     |  | Diaphragm  | Body              | ___ N A ___ | ♦ | ♦ | ♦ |
|               | Wetted Material     |  | 316L SS  | 316 St. St.       | ___ 0 ___   | ♦ | ♦ | ♦ |
|               | Non-Wetted Material |  | No Selection   |                   | ___ 0 ___   | ♦ | ♦ | ♦ |
|               | Bolts               |  | No Selection   |                   | ___ 0 ___   | ♦ | ♦ | ♦ |
| Saddle Seal   |                     |  | Tri-Clover Tri-Clamp                                 |                   | ___ 8 ___   | ♦ | ♦ | ♦ |
|               | Gasket              |  | No Selection   |                   | ___ 0 ___   | ♦ | ♦ | ♦ |
|               | Diaphragm Diameter  | Size and Bolt Pattern                              | Seal Pressure Rating **                              |                   | ___ RPK ___ | ♦ | ♦ | t |
|               |                     |  | C.S. Bolts   | 304 St. St. Bolts |             |   |   |   |
|               | 2.4"                | for 3" pipe-Conoflow or 4" or larger pipe-Conoflow | 1250 psi   | 1250 psi          | ___ RQK ___ | ♦ | ♦ | t |
|               |                     |  | Diaphragm  | Lower Housing     | ___ RA ___  | ♦ | ♦ | ♦ |
|               | Wetted Material     |  | 316L SS  | C. S.             | ___ RB ___  | ♦ | ♦ | ♦ |
|               |                     |  | 316L SS  | 316 St. St.       | ___ RC ___  | ♦ | ♦ | ♦ |
|               |                     |  | Hastelloy C  | 316 St. St.       | ___ SB ___  | ♦ | ♦ | ♦ |
|               |                     |  | 316 LSS  | N/A-Body Only     | ___ SC ___  | ♦ | ♦ | ♦ |
|               |                     |  | Hastelloy C  | N/A-Body Only     |             | ♦ | ♦ | ♦ |
|               | Non-Wetted Material |  | Body   | Bolts *           | ___ B ___   | ♦ | ♦ | ♦ |
|               |                     |  | C. S.  | C. S.             | ___ C ___   | ♦ | ♦ | ♦ |
|               |                     |  | 316 St. St.  | 304 St. St.       | ___ 0 ___   | ♦ | ♦ | ♦ |
|               | No Selection        |  |  |                   | ___ 0 ___   | ♦ | ♦ | ♦ |
|               | Styles              |  | No Selection   |                   | ___ 0 ___   | ♦ | ♦ | ♦ |
|               | Gasket              |  | No Selection   |                   | ___ 0 ___   | ♦ | ♦ | ♦ |

Note: All sanitary seals have dairy grade 3A approval.

\* Bolts are not included with "Body Only" selection.

\*\* **Caution:** Maximum working pressure of STR14G and STR14A transmitter is 500 psig and STR17G is 3000 psig. Damage to sensor may result if pressure limit is exceeded.

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

TABLE III - OPTIONS

STR14A




STR1\_G

Selection

4

7

|  |    |   |   |   |   |
|--|----|---|---|---|---|
| None   | 00 | ♦ | ♦ | ♦ |   |
| FOUNDATION Fieldbus Communications   | FF | r | r | r | b |
| HART Protocol compatible electronics   | HC | e | e | e |   |
| Analog Meter (0-100 Even 0-10 Square Root)   | ME | ♦ | ♦ | ♦ | b |
| Smart Meter  | SM | ♦ | ♦ | ♦ |   |
| Customer Configuration of Smart Meter  | CI | f | f | f |   |
| Local Zero & Span  | ZS | m | m |   | b |
| Local Zero   | LZ | x | x |   |   |
| Lightning Protection   | LP | ♦ | ♦ | ♦ |   |
| Custom Calibration and I.D. in Memory  | CC | ♦ | ♦ | ♦ |   |
| Transmitter Configuration - non-Fieldbus   | TC | ♦ | ♦ | ♦ |   |
| Write Protection   | WP | ♦ | ♦ | ♦ |   |
| End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D)                                  | SP | a | a | a | b |
| End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)                               | PG | a | a | a |   |
| End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)                                  | TL | a | a | a |   |
| End Cap Live Circuit Warning Label in German (only with ATEX 3D)                                   | GE | a | a | a |   |
| A286SS (NACE) Bolts and 302/304SS (NACE) Nuts for Heads  | CR |   |   | ♦ |   |
| Stainless Steel Customer Wired-On Tag  | TG | ♦ | ♦ | ♦ |   |
| (4 lines, 28 characters per line, customer supplied information)                                   |    |   |   |   |   |
| Stainless Steel Customer Wired-On Tag (blank)  | TB | ♦ | ♦ | ♦ |   |
| Mounting Bracket - Carbon Steel  | MB | ♦ | ♦ | ♦ | b |
| Mounting Bracket - ST. ST.   | SB | ♦ | ♦ | ♦ |   |
| Flat Mounting Bracket  | FB | ♦ | ♦ | ♦ |   |
| 316 ST.ST. Electronics Housing - with M20 Conduit Connections                                      | SH | n | n | n | b |
| 1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)  | A1 | n | n | n |   |
| 1/2" NPT to 3/4" NPT 316 SS Conduit Adapter  | A2 | u | u | u |   |
| Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit Adapter (use for FM and CSA Approvals) | A3 | i | i | i |   |
| Clean Transmitter for Oxygen or Chlorine Service with Certificate                                  | 0X | h | h | h |   |
| Over-Pressure Leak Test with F3392 Certificate   | TP | ♦ | ♦ | ♦ |   |
| Calibration Test Report and Certificate of Conformance (F3399)                                     | F1 | ♦ | ♦ | ♦ | b |
| Certificate of Conformance (F3391)   | F3 | ♦ | ♦ | ♦ |   |
| Certificate of Origin (F0195)  | F5 | ♦ | ♦ | ♦ |   |
| FMEDA (SIL) Certificate  | F6 | ♦ | ♦ | ♦ |   |
| NACE Certificate (F0198)   | F7 | ♦ | ♦ | o |   |
| Additional Warranty - 1 year   | W1 | ♦ | ♦ | ♦ | b |
| Additional Warranty - 2 years  | W2 | ♦ | ♦ | ♦ |   |
| Additional Warranty - 3 years  | W3 | ♦ | ♦ | ♦ |   |
| Additional Warranty - 4 years  | W4 | ♦ | ♦ | ♦ |   |

| Approval Body                   | Approval Type                | Location or Classification  |    |   |   |   |
|---------------------------------|------------------------------|---|----|---|---|---|
| No hazardous location approvals |                              |   | 9X | ♦ | ♦ | ♦ |
| Factory Mutual                  | Explosion Proof              | Class I, Div. 1, Groups A,B,C,D   | 1C | ♦ | ♦ | ♦ |
|                                 | Dust Ignition Proof          | Class II, III Div. 1, Groups E,F,G  |    |   |   |   |
|                                 | Non-Incendive                | Class I, Div. 2, Groups A,B,C,D   |    |   |   |   |
|                                 | Intrinsically Safe           | Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G  |    |   |   |   |
| CSA                             | Explosion Proof              | Class I, Div. 1, Groups B,C,D   | 2J | ♦ | ♦ | ♦ |
|                                 | Dust Ignition Proof          | Class II, III, Div. 1, Groups E,F,G   |    |   |   |   |
|                                 | Intrinsically Safe           | Class I, II, III, Div. 1, Groups A,B,C,D,E,F,G  |    |   |   |   |
| SA (Australia)                  | Intrinsically Safe           | Ex ia IIC T4  | 4G | ♦ | ♦ | ♦ |
|                                 | Non-Sparking                 | Ex n IIC T6 (T4 with SM option)   |    |   |   |   |
| ATEX*                           | Intrinsically Safe, Zone 0/1 |  II 1 G EEx ia IIC T4, T5, T6                          | 3S | ♦ | ♦ | ♦ |
|                                 | Flameproof, Zone 1           |  II 2 G EEx d IIC T5, T6, Enclosure IP 66/67           | 3D | ♦ | ♦ | ♦ |
|                                 | Non-Sparking, Zone 2         |  II 3 G EEx nA, IIC T6 (Honeywell). Enclosure IP 66/67 | 3N | ♦ | ♦ | ♦ |
| INMETRO (Brazil)                | Flameproof, Zone 1           | Ex d IIC T5   | 6D | ♦ | ♦ | ♦ |

b

\*See ATEX installation requirements in the ST 3000 User's Manual

#### 97/23/EC Pressure Equipment Directive (PED)

The ST 3000 pressure transmitters listed in this Model Selection Guide are in conformity with the essential requirements of the PED. A formal statement from TÜV Industry Service Group of TÜV America, Inc., a division of TÜV Süddeutschland, a Notified Body regarding the Pressure Equipment Directive, is available upon request

**TABLE IV**

|                        |      |   |   |   |
|------------------------|------|---|---|---|
| Factory Identification | XXXX | ♦ | ♦ | ♦ |
|------------------------|------|---|---|---|



**RESTRICTIONS**

| Restriction Letter | Table                                  | Available Only With Selection  | Table | Not Available With Selection   |
|--------------------|--|--|-------|--|
| a                  | III                                    | 3D   |       |  |
| b                  | Select only one option from this group |  |       |  |
| c                  |  |  | II    | ----- BF -----<br>----- BG -----<br>----- JF -----<br>----- JG -----   |
| d                  | II                                     | ----- BF -----<br>----- BG -----<br>----- JF -----<br>----- JG -----                                   |       |  |
| e                  |  |  | III   | 4G   |
| f                  | III                                    | SM   |       |  |
| h                  | I, II                                  | _ 2 _ - 2 _  |       |  |
| i                  | III                                    | 1C or 2J   |       |  |
| m                  |  |  | III   | ME, FF   |
| n                  |  |  | III   | 1C, 2J   |
| o                  | III                                    | CR   |       |  |
| p                  |  |  | II    | DC704 and Syltherm 800<br>fills and close-couple require<br>SS seal upper.<br>--- CAA --- 5 ---<br>--- CCA --- 5 ---<br>--- CCC --- 5 ---<br>--- DAA --- 5 ---<br>--- DCA --- 5 ---<br>--- DCC --- 5 ---<br>--- DGA --- 5 ---<br>--- DGC --- 5 ---<br>--- DDA --- 5 ---<br>--- GE ---<br>--- A ---<br>--- B ---<br>--- BCA --- 5 --- |
| q                  | II                                     | 2 -----<br>4 -----   |       |  |
| r                  |  |  | III   | TC, ME, 4G, 3S   |
| t                  | II                                     | <b>See Figure 12 in Specification</b><br>_ A -----<br>_ G -----<br>_ B -----<br>_ H -----<br>_ 2 ----- |       |  |
| u                  | III                                    | 1C, 2J   |       |  |
| w                  |  |  | II    | ----- JA -----   |
| x                  | III                                    | FF, SM   |       |  |

Restrictions continued next page

## RESTRICTIONS - (continued)

| Restriction Letter | Table | Available Only With Selection | Table     | Not Available With Selection   |
|--------------------|-------|-------------------------------|-----------|--|
| y                  | II    | _ 2 _ _ _ _ _ _ _ _ ,         | III<br>II | MB, SB, FB<br>DC704 and Syltherm 800<br>fills and close-couple require<br>SS seal upper.<br>_ _ _ CAA _ _ 5 _ _ _ ,<br>_ _ _ CCA _ _ 5 _ _ _ ,<br>_ _ _ CCC _ _ 5 _ _ _ ,<br>_ _ _ DAA _ _ 5 _ _ _ ,<br>_ _ _ DCA _ _ 5 _ _ _ ,<br>_ _ _ DCC _ _ 5 _ _ _ ,<br>_ _ _ DGA _ _ 5 _ _ _ ,<br>_ _ _ DGC _ _ 5 _ _ _ ,<br>_ _ _ DDA _ _ 5 _ _ _ ,<br>_ _ _ _ _ GE _ _ _ _ _ ,<br>_ _ _ _ _ A _ _ _ _ _ ,<br>_ _ _ _ _ B _ _ _ _ _ ,<br>_ _ _ BCA _ _ 5 _ _ _ |
| z                  | I     | _ _ _ D                       |           |  |

**Note:** See ST-83 for Published Specials with pricing.  
 See ST-89 and User's Manual for part numbers.  
 See ST-OE-9 for OMS 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.  
 See Specification 34-ST-03-64 for seal dimensions.

**TABLE 1 - Flush Flanged Seals** **Diaphragm Diameter = 3.5"**

| Seal Materials |            | Flange Size - Pressure Rating - Code |     |     |
|----------------|------------|--------------------------------------|-----|-----|
| Wetted         | Non-wetted | AFA                                  | AFC | AFM |
| AA             | 1          | 407                                  | 421 | 473 |
| AB             | 1          | 464                                  | 478 | 530 |
| AC             | 1          | 640                                  | 741 | 780 |
| AE             | 1          | 549                                  | 563 | 615 |
| AA             | 2          | 580                                  | 638 | 647 |
| AB             | 2          | 638                                  | 696 | 706 |
| AC             | 2          | 741                                  | 828 | 860 |
| AE             | 2          | 681                                  | 740 | 748 |

**TABLE 2 - Flush Flanged Seals with Loweres** **Diaphragm Diameter = 2.4"**

| Seal Materials |            | Flange Size - Pressure Rating - Code |     |     |     |     |     |      |      |
|----------------|------------|--------------------------------------|-----|-----|-----|-----|-----|------|------|
| Wetted         | Non-wetted | BCA                                  | BCC | BGA | BGC | BDA | BDC | BFA  | BFC  |
| BA             | 4          | 442                                  | 528 | 422 | 528 | 564 | 652 | 710  | 934  |
| BB             | 4          | 445                                  | 560 | 445 | 560 | 585 | 673 | 731  | 955  |
| BC             | 4          | 604                                  | 717 | 604 | 717 | 854 | 927 | 1180 | 1390 |
| BE             | 4          | 452                                  | 564 | 452 | 564 | 636 | 724 | 839  | 1042 |
| BF             | 4          | 474                                  | 580 | 474 | 580 | 617 | 704 | 762  | 986  |
| BG             | 4          | 633                                  | 747 | 633 | 747 | 884 | 957 | 1211 | 1420 |
| BA             | 5          | 242                                  | 297 | 242 | 297 | 341 | 398 | 405  | 507  |
| BB             | 5          | 263                                  | 318 | 263 | 318 | 361 | 420 | 426  | 528  |
| BC             | 5          | 422                                  | 485 | 422 | 485 | 629 | 673 | 876  | 963  |
| BE             | 5          | 270                                  | 333 | 270 | 333 | 412 | 470 | 536  | 615  |
| BF             | 5          | 294                                  | 349 | 294 | 349 | 393 | 450 | 457  | 559  |
| BG             | 5          | 453                                  | 515 | 453 | 515 | 660 | 704 | 906  | 993  |

**TABLE 3 - Flush Flanged Seals with Loweres** **Diaphragm Diameter = 2.9"**

| Seal Materials |            | Flange Size - Pressure Rating - Code |      |      |      |      |      |      |
|----------------|------------|--------------------------------------|------|------|------|------|------|------|
| Wetted         | Non-wetted | CAA                                  | CCA  | CCC  | CGA  | CGC  | CDA  | CDC  |
| BA             | 4          | 496                                  | 496  | 496  | 496  | 635  | 685  | 685  |
| BB             | 4          | 516                                  | 516  | 516  | 516  | 658  | 708  | 708  |
| BC             | 4          | 1002                                 | 1002 | 1002 | 1002 | 983  | 1027 | 1027 |
| BE             | 4          | 567                                  | 567  | 567  | 567  | 722  | 810  | 820  |
| BF             | 4          | 548                                  | 548  | 548  | 548  | 687  | 738  | 738  |
| BG             | 4          | 1032                                 | 1032 | 1032 | 1032 | 1013 | 1057 | 1057 |
| BA             | 5          | 357                                  | 357  | 357  | 357  | 411  | 432  | 432  |
| BB             | 5          | 378                                  | 378  | 378  | 378  | 432  | 455  | 455  |
| BC             | 5          | 865                                  | 865  | 865  | 865  | 759  | 773  | 773  |
| BE             | 5          | 429                                  | 429  | 429  | 429  | 498  | 556  | 556  |
| BF             | 5          | 409                                  | 409  | 409  | 409  | 463  | 485  | 485  |
| BG             | 5          | 895                                  | 895  | 895  | 895  | 788  | 803  | 803  |

TABLE 4 - Flush Flanged Seals with Loweres

Diaphragm Diameter = 4.1"

| Seal Materials |            | Flange Size - Pressure Rating - Code |      |      |      |      |      |      |      |      |
|----------------|------------|--------------------------------------|------|------|------|------|------|------|------|------|
| Wetted         | Non-wetted | DAA                                  | DCA  | DCC  | DGA  | DGC  | DDA  | DDC  | DFA  | DFC  |
| BA             | 4          | 748                                  | 748  | 770  | 748  | 770  | 685  | 599  | 881  | 1082 |
| BB             | 4          | 814                                  | 814  | 835  | 814  | 835  | 751  | 853  | 947  | 1146 |
| BC             | 4          | 1379                                 | 1379 | 1429 | 1379 | 1429 | 1280 | 1294 | 1490 | 1669 |
| BE             | 4          | 891                                  | 891  | 979  | 891  | 979  | 866  | 968  | 1047 | 1246 |
| BF             | 4          | 857                                  | 857  | 879  | 857  | 879  | 795  | 896  | 990  | 1190 |
| BG             | 4          | 1422                                 | 1422 | 1473 | 1422 | 1473 | 1323 | 1338 | 1533 | 1712 |
| BA             | 5          | 596                                  | 596  | 618  | 596  | 618  | 533  | 533  | 577  | 655  |
| BB             | 5          | 662                                  | 662  | 683  | 662  | 683  | 600  | 600  | 643  | 719  |
| BC             | 5          | 1227                                 | 1227 | 1278 | 1227 | 1278 | 1128 | 1041 | 1186 | 1241 |
| BE             | 5          | 740                                  | 740  | 826  | 740  | 826  | 714  | 714  | 743  | 820  |
| BF             | 5          | 706                                  | 706  | 727  | 706  | 727  | 643  | 643  | 685  | 763  |
| BG             | 5          | 1270                                 | 1270 | 1320 | 1270 | 1320 | 1172 | 1084 | 1094 | 1285 |

TABLE 5 - Price Add for Flush Flanged Seals with Loweres and Flushing Connection: Code = 7

| Seal Materials |  | Flange Size - Pressure Rating - Code                          |   |  |
|----------------|--|---|---|--|
| Wetted         | Diaph. Dia. = 2.4"<br>BCA, BCC, BGA,<br>BGC, BDA, BDC,<br>BFA, BFC | Diaph. Dia. = 2.9"<br>CAA, CCA, CCC,<br>CGA, CGC, CDA,<br>CDC | Diaph. Dia. = 4.1"<br>DAA, DCA, DCC, DGA,<br>DGC, DDA, DDC,<br>DFA, DFC |  |
| BA             | 44   | 44  | 115   |  |
| BB             | 44   | 44  | 115   |  |
| BC             | 101  | 138   | 159   |  |
| BE             | 95   | 131   | 145   |  |
| BF             | 44   | 44  | 115   |  |
| BG             | 101  | 138   | 159   |  |

TABLE 6 - Flanged Seals with Extended Diaphragms

| Seal Materials |           | Flange Size - Pressure Rating - Code |      |      |                           |      |      |
|----------------|-----------|--------------------------------------|------|------|---------------------------|------|------|
| Wetted         | Extension | Diaphragm Diameter = 2.9"            |      |      | Diaphragm Diameter = 3.5" |      |      |
|                |           | EFA                                  | EFC  | EFM  | FGA                       | FGC  | FGP  |
| EA             | 2         | 744                                  | 760  | 811  | 807                       | 832  | 890  |
| EB             | 2         | 766                                  | 781  | 832  | 865                       | 890  | 948  |
| EC             | 2         | 1135                                 | 1151 | 1201 | 1973                      | 2001 | 2057 |
| EA             | 4         | 787                                  | 803  | 854  | 865                       | 890  | 948  |
| EB             | 4         | 810                                  | 825  | 876  | 922                       | 948  | 1006 |
| EC             | 4         | 1346                                 | 1364 | 1412 | 2252                      | 2282 | 2338 |
| EA             | 6         | 831                                  | 847  | 898  | 922                       | 948  | 1006 |
| EB             | 6         | 853                                  | 869  | 920  | 980                       | 1006 | 1064 |
| EC             | 6         | 1559                                 | 1577 | 1623 | 2533                      | 2560 | 2618 |

**TABLE 7 - Seals with Threaded Process Connection with Carbon Steel Uppers: Code = A**

| Material -<br>Wetted without<br>Flushing<br>Connection | Flange Size - Pressure Rating - Code |                    |                    |
|--|--------------------------------------|--------------------|--------------------|
|  | Diaph. Dia. = 2.4"                   | Diaph. Dia. = 2.9" | Diaph. Dia. = 4.1" |
|  | JJG, JKG, JLG                        | KJG, KKG, KLG      | LJG, LKG, LLG      |
| JA   | 146                                  | 173                | 371                |
| JB   | 206                                  | 233                | 459                |
| JC   | 227                                  | 254                | 523                |
| JD   | 553                                  | 605                | 1089               |
| JE   | 264                                  | 307                | 553                |
| JF   | 259                                  | 285                | 567                |
| JG   | 605                                  | 658                | 1199               |

**TABLE 8 - Seals with Threaded Process Connection with Stainless Steel Uppers: Code = C**

| Material -<br>Wetted without<br>Flushing<br>Connection | Flange Size - Pressure Rating - Code |                    |                    |
|--|--------------------------------------|--------------------|--------------------|
|  | Diaph. Dia. = 2.4"                   | Diaph. Dia. = 2.9" | Diaph. Dia. = 4.1" |
|  | JJG, JKG, JLG                        | KJG, KKG, KLG      | LJG, LKG, LLG      |
| JB   | 337                                  | 370                | 611                |
| JC   | 359                                  | 393                | 676                |
| JD   | 683                                  | 743                | 1241               |
| JE   | 395                                  | 445                | 705                |
| JF   | 389                                  | 422                | 719                |
| JG   | 735                                  | 795                | 1349               |

**TABLE 9 - Price Add for Seals with Threaded Process Connection and Flushing Connection: Code = F**

| Material Wetted | Size - Pressure Rating - Code |                    |                    |
|-----------------|-------------------------------|--------------------|--------------------|
|                 | Diaph. Dia. = 2.4"            | Diaph. Dia. = 2.9" | Diaph. Dia. = 4.1" |
|                 | JJG, JKG, JLG                 | KJG, KKG, KLG      | LJG, LKG, LLG      |
| JA              | 19                            | 19                 | 88                 |
| JB              | 30                            | 30                 | 88                 |
| JC              | 30                            | 30                 | 88                 |
| JD              | 55                            | 55                 | 159                |
| JE              | 30                            | 30                 | 88                 |
| JF              | 30                            | 30                 | 88                 |
| JG              | 55                            | 55                 | 159                |

**TABLE 10 - Saddle Seals      Diaphragm Diameter = 2.4"**

| Material |            | Size - Pressure Rating - Code |     |
|----------|------------|-------------------------------|-----|
| Wetted   | Non-Wetted | RPK                           | RQK |
| RA       | B          | 285                           | 277 |
| RB       | B          | 497                           | 377 |
| RC       | B          | 427                           | 400 |
| SB       | B          | 184                           | 184 |
| SC       | B          | 209                           | 209 |
| RA       | C          | 445                           | 437 |
| RB       | C          | 566                           | 537 |
| RC       | C          | 588                           | 559 |
| SB       | C          | 335                           | 335 |
| SC       | C          | 361                           | 361 |

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