

ST 3000 Smart Transmitter Series 900 Remote Seals (DP and GP)

Model Selection Guide With Price Data

Model Selection Guide

34-ST-16U-34 Issue 20

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
 [] - [] - [] - [] + []
 [] - [] - [] - [] + []

KEY NUMBER	Description	Selection	Availability
	0-25" to 0-2700" H ₂ O/0-62.2 to 0-7000 mbar Body Rating*: 750 psi (51.7 bar) Compound Characterized	STR93D	↓
	0-20 to 0-500 psig/0-1.4 to 0-35 bar Body Rating*: 500 psi (35 bar)	STR94G	↓

* 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 _ _	♦	♦
	2 Remote Seals	2 _ _	♦	♦
	1 Remote Seal (Low Side)	3 _ _	♦	♦
Fill Fluid (Meter Body)	Silicone (DC 200)	_ 1 _	♦	♦
	CTFE	_ 2 _	q	q
Construction	Non-Wetted Adapter Head Material			
Standard Dual Head	316 St. St.	_ _ A		♦
	316 St. St. for Close-Couple	_ _ D		y
Standard Dual Head	316 St. St.	_ _ A	♦	
	Carbon St. (zinc-plated)	_ _ B	♦	
	316 St. St. for Close-Couple	_ _ D	y	

See Specification Sheet 34-ST-03-57 for figures on construction.

STR9__

Selection 3D 4G

TABLE II - SEALS

Format for Seal Selection: Specify 12 characters									
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>Common Required Seal</div>									
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		
Connection of Remote Seal to Meter Body	Capillary Length	5 feet	1.5 m	SS Armor	— A _____	♦	♦		
		10 feet	3.0 m		— B _____	♦	♦		
		15 feet	4.5 m		— C _____	♦	♦		
		20 feet	6.1 m		— D _____	♦	♦		
		25 feet	7.5 m		— E _____	♦	♦		
		35 feet	10.7 m		— F _____	♦	♦		
		5 feet	1.5 m	PVC Coated SS Armor	— G _____	♦	♦		
		10 feet	3.0 m		— H _____	♦	♦		
		15 feet	4.5 m		— J _____	♦	♦		
		20 feet	6.1 m		— K _____	♦	♦		
25 feet	7.5 m	— L _____	♦		♦				
35 feet	10.7 m	— M _____	♦	♦					
2 inch long SS nipple close-coupled				— 2 _____	z	z			
No Selection				— 0 _____	•	•			
Flush Flanged Seal	Diaphragm Diameter	Flange Size	Flange 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.	— AA _____	♦	♦	
	Hastelloy C	316 St. St.		— AB _____	♦	♦			
	Hastelloy C	Hastelloy C		— AC _____	♦	♦			
	Monel	Monel		— AE _____	♦	♦			
	Non-Wetted Material (upper)		CS with Polyester Powder Coating		— 1 _____	♦	♦		
			316 St. St.		— 2 _____	♦	♦		
	Bolts		No Selection		— 0 _____	♦	♦		
	Styles		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 2.

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

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TABLE II - SEALS (continued)

TABLE II - SEALS (continued)					Selection		3D	4G
Flush Flanged Seal with Lower	Diaphragm Diameter	Flange Size	Flange Pressure Rating *	Const. - See Spec. Figure 34-ST-03-57				
	2.4"	1"	ANSI 150	2	----- BCA -----	♦	♦	
		1-1/2"	ANSI 300	2	----- BCC -----	♦	♦	
			ANSI 150	2	----- BGA -----	♦	♦	
			ANSI 300	2	----- BGC -----	♦	♦	
			2"	ANSI 150	2	----- BDA -----	♦	♦
		3"	ANSI 300	2	----- BDC -----	♦	♦	
			ANSI 150	2	----- BFA -----	♦	♦	
			ANSI 300	2	----- BFC -----	♦	♦	
	2.9"		1/2"	ANSI 150	3	----- CAA -----	♦	♦
		1"	ANSI 150	3	----- CCA -----	♦	♦	
			ANSI 300	3	----- CCC -----	♦	♦	
		1-1/2"	ANSI 150	2	----- CGA -----	♦	♦	
			ANSI 300	2	----- CGC -----	♦	♦	
		2"	ANSI 150	2	----- CDA -----	♦	♦	
			ANSI 300	2	----- CDC -----	♦	♦	
		4.1"	1/2"	ANSI 150	3	----- DAA -----	♦	♦
	1"		ANSI 150	3	----- DCA -----	♦	♦	
			ANSI 300	3	----- DCC -----	♦	♦	
	1-1/2"		ANSI 150	3	----- DGA -----	♦	♦	
			ANSI 300	3	----- DGC -----	♦	♦	
	2"		ANSI 150	3	----- DDA -----	♦	♦	
			ANSI 300	2	----- DDC -----	♦	♦	
	3"		ANSI 150	2	----- DFA -----	♦	♦	
			ANSI 300	2	----- DFC -----	♦	♦	
	Wetted Material		Diaphragm	Lower				
			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 -----	♦	♦	
			Tantalum	Hastelloy C	----- BG -----	♦	♦	
	Non-Wetted Material (upper, upper insert)		Upper	Upper Insert				
			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
Grafoil			----- G -----	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.

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TABLE II - SEALS (continued)				Selection	3D	4G
Flange Seal with Extended Diaphragm	Diaphragm Diameter	Flange Size	Flange Pressure Rating *			
	2.9" (2.85")	3" (2.85" OD extension)	ANSI Class 150 ANSI Class 300 DIN DN80-PN40		___ EFA ___	♦ ♦
					___ EFC ___	♦ ♦
					___ EFM ___	♦ ♦
	3.5"	4" (3.70" OD extension)	ANSI Class 150 ANSI Class 300 DIN DN100-PN40		___ FGA ___	♦ ♦
					___ FGC ___	♦ ♦
					___ FGP ___	♦ ♦
	Wetted Material		Diaphragm	Lower	___ EA ___	♦ ♦
			316L SS	316 St. St.	___ EB ___	♦ ♦
			Hastelloy C	316 St. St.	___ EC ___	♦ ♦
Pancake Seal	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 ___	♦ ♦
	Diaphragm Diameter	Flange Size	Flange Pressure Rating** 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 STR93D transmitter is 750 psi and STR94G transmitter is 500 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.

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TABLE II - SEALS (continued)

				Selection	3D	4G
Chemical Tee "Taylor" Wedge	Diaphragm Diameter	Flange Size	Flange Pressure Rating			
	3.5"	Taylor Wedge 5" O.D.	750 psi		___ HM0 ___	v
	Wetted Material		Diaphragm	Lower	___ HA ___	♦
			316L SS	316 St. St.	___ HB ___	♦
	Non-Wetted Material		No Selection		___ 0 ___	♦
	Bolts		No Selection		___ 0 ___	♦
	Styles		No Selection		___ 0 ___	♦
Seal with Threaded Process Connection	Diaphragm Diameter		Threaded Process Connection Size (NPT Female)		Seal Pressure Rating *	
					CS Bolts	304 SS Bolts
	2.4"	1/2" NPT			___ JJG ___	♦ ♦
		3/4" NPT			___ JKG ___	♦ ♦
		1" NPT	2500		___ JLG ___	♦ ♦
	2.9"	1/2" NPT			___ KJG ___	♦ ♦
		3/4" NPT	2500		___ KKG ___	♦ ♦
		1" NPT	psi		___ KLG ___	♦ ♦
	4.1"	1/2" NPT			___ LJG ___	♦ ♦
		3/4" NPT	1500		___ LKG ___	♦ ♦
		1" NPT	psi		___ LLG ___	♦ ♦
	Wetted Material		Diaphragm	Lower	___ JA ___	♦ ♦
			316L SS	CS	___ JB ___	♦ ♦
			316L SS	316 St. St.	___ JC ___	♦ ♦
			Hastelloy C	316 St. St.	___ JD ___	♦ ♦
			Hastelloy C	Hastelloy C	___ JE ___	♦ ♦
			Monel	Monel	___ JF ___	♦ ♦
			Tantalum	316 St. St.	___ JG ___	♦ ♦
	Non-Wetted Material (upper)		CS with Polyester Powder Coating		___ A ___	♦ ♦
			Stainless Steel		___ C ___	w w
	Bolts		C.S.		___ C ___	♦ ♦
			304 St. St.		___ D ___	♦ ♦
	Styles		W/O Flushing Connection		___ A ___	♦ ♦
			With Flushing Connection		___ F ___	♦ ♦
	Gasket		Klinger C-4401 (non-asbestos)		___ K ___	c c
			Grafoil		___ G ___	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.

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

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TABLE II - SEALS (continued)

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

* 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.

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

All sanitary seals have dairy grade 3A approval.

TABLE III - OPTIONS

	Selection	STR9_--	
		3D	4G
None	00	♦	♦
HART® Protocol Compatible Electronics	HC	e	e
FOUNDATION Fieldbus Communications	FF	r	r
Analog Meter (0-100 Even 0-10 Square Root)	ME	♦	♦
Smart Meter	SM	♦	♦
Custom Configuration of Smart Meter	CI	m	m
Local Zero	LZ	x	x
Local Zero and Span	ZS	s	s
Lightning Protection	LP	♦	♦
Custom Calibration and I.D. in Memory	CC	♦	♦
Transmitter Configuration	TC	♦	♦
Write Protection	WP	♦	♦
End Cap Live Circuit Warning Label in Spanish (only with ATEX 3D)	SP	a	a
End Cap Live Circuit Warning Label in Portuguese (only with ATEX 3D)	PG	a	a
End Cap Live Circuit Warning Label in Italian (only with ATEX 3D)	TL	a	a
End Cap Live Circuit Warning Label in German (only with ATEX 3D)	GE	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	♦	♦
Mounting Bracket - ST. ST.	SB	♦	♦
Flat Mounting Bracket	FB	♦	♦
316 ST.ST. Electronics Housing - with M20 Conduit Connections	SH	n	n
1/2" NPT to M20 316SS Conduit Adapter (BASEEFA EEx d IIC)	A1	n	n
1/2" NPT to 3/4" NPT 316 SS Conduit Adapter	A2	u	u
Stainless Steel Housing with M20 to 1/2" NPT 316 SS Conduit	A3	i	i
Adapter (use for FM and CSA Approvals)			
Clean Transmitter for Oxygen or Chlorine Service with Certificate	0X	h	h
Over-Pressure Leak Test with F3392 Certificate	TP	♦	♦
Calibration Test Report and Certificate of Conformance (F3399)	F1	♦	♦
Certificate of Conformance (F3391)	F3	♦	♦
Certificate of Origin (F0195)	F5	♦	♦
FMEDA (SIL) Certificate	F6	♦	♦
NACE Certificate (F0198)	F7	o	♦
Additional Warranty - 1 year	W1	♦	♦
Additional Warranty - 2 years	W2	♦	♦
Additional Warranty - 3 years	W3	♦	♦
Additional Warranty - 4 years	W4	♦	♦

Table III continued next page

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TABLE III - OPTIONS (continued)

			Selection	3D	4G
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	Ex II 1 G EEx ia IIC T4, T5, T6	3S	♦	♦
	Flameproof, Zone 1	Ex II 2 G EEx d IIC T5, T6, Enclosure IP 66/67	3D	♦	♦
	Non-Sparking, Zone 2	Ex 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	♦	♦
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RESTRICTIONS

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

Restrictions continued next page

RESTRICTIONS - (continued)

Restriction		Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
u	III	1C, 2J		
v	I	2 __		
w			II	_____ JA _____
x	III	FF, SM		
y	I II	1 __, 3 __ _ 2 _____	III	MB, SB, FB DC704 and Syltherm 800 fills and close-couple require SS seal upper. ____ BCA __ 5 _____, ____ CAA __ 5 _____, ____ CCA __ 5 _____, ____ CCC __ 5 _____, ____ DAA __ 5 _____, ____ DCA __ 5 _____, ____ DCC __ 5 _____, ____ DGA __ 5 _____, ____ DGC __ 5 _____, ____ DDA __ 5 _____, ____ GE _____, ____ A _____ ____ B _____
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.

TABLE 1 - Flush Flanged Seals Diaphragm Diameter = 3.5"

Number of Seals	Seal Materials		Flange Size - Pressure Rating - Code		
	Wetted	Non-wetted	AFA	AFC	AFM
1	AA	1	407	421	473
1	AB	1	464	478	530
1	AC	1	640	741	780
1	AE	1	549	563	615
1	AA	2	580	638	647
1	AB	2	638	696	706
1	AC	2	741	828	860
1	AE	2	681	740	748
2	AA	1	814	843	947
2	AB	1	928	957	1061
2	AC	1	1279	1481	1561
2	AE	1	1098	1126	1230
2	AA	2	1161	1275	1289
2	AB	2	1275	1391	1412
2	AC	2	1481	1656	1720
2	AE	2	1363	1479	1495

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

Number of Seals	Seal Materials		Flange Size - Pressure Rating - Code							
	Wetted	Non Wetted	BCA	BCC	BGA	BGC	BDA	BDC	BFA	BFC
1	BA	4	422	528	422	528	564	652	710	934
1	BB	4	445	560	445	560	585	673	731	955
1	BC	4	604	717	604	717	854	927	1180	1390
1	BE	4	452	564	452	564	636	724	839	1042
1	BF	4	474	580	474	580	617	704	762	986
1	BG	4	633	747	633	747	884	957	1211	1420
1	BA	5	242	297	242	297	341	398	405	507
1	BB	5	263	318	263	318	361	420	426	528
1	BC	5	422	485	422	485	629	673	876	963
1	BE	5	270	333	270	333	412	470	536	615
1	BF	5	294	349	294	349	393	450	457	559
1	BG	5	453	515	453	515	660	704	906	993
2	BA	4	845	1057	845	1057	1128	1303	1419	1869
2	BB	4	888	1120	888	1120	1172	1346	1463	1910
2	BC	4	1207	1434	1207	1434	1709	1854	2359	2780
2	BE	4	903	1128	903	1128	1273	1448	1679	2085
2	BF	4	949	1161	949	1161	1234	1407	1523	1973
2	BG	4	1267	1494	1267	1494	1769	1915	2423	2841
2	BA	5	482	593	482	593	680	795	810	1013
2	BB	5	526	636	526	636	722	840	853	1057
2	BC	5	845	970	845	970	1259	1346	1752	1925
2	BE	5	541	666	541	666	824	940	1072	1230
2	BF	5	587	697	587	697	784	899	914	1117
2	BG	5	905	1030	905	1030	1319	1407	1813	1987

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

Number of Seals	Seal Materials		Flange Size - Pressure Rating - Code						
	Wetted	Non-wetted	CAA	CCA	CCC	CGA	CGC	CDA	CDC
1	BA	4	496	496	496	496	496	635	685
1	BB	4	516	516	516	516	516	658	708
1	BC	4	1002	1002	1002	1002	1002	983	1027
1	BE	4	567	567	567	567	567	722	810
1	BF	4	548	548	548	548	548	687	738
1	BG	4	1032	1032	1032	1032	1032	1013	1057
1	BA	5	357	357	357	357	357	411	432
1	BB	5	378	378	378	378	378	432	455
1	BC	5	865	865	865	865	865	759	773
1	BE	5	429	429	429	429	429	498	556
1	BF	5	409	409	409	409	409	463	485
1	BG	5	895	895	895	895	895	788	803
2	BA	4	990	990	990	990	990	1271	1371
2	BB	4	1032	1032	1032	1032	1032	1315	1415
2	BC	4	2004	2004	2004	2004	2004	1967	2053
2	BE	4	1134	1134	1134	1134	1134	1444	1619
2	BF	4	1094	1094	1094	1094	1094	1375	1477
2	BG	4	2064	2064	2064	2064	2064	2027	2114
2	BA	5	714	714	714	714	714	822	866
2	BB	5	758	758	758	758	758	866	909
2	BC	5	1729	1729	1729	1729	1729	1517	1546
2	BE	5	860	860	860	860	860	995	1111
2	BF	5	819	819	819	819	819	926	970
2	BG	5	1789	1789	1789	1789	1789	1577	1607

TABLE 4 - Flush Flanged Seals with Lowerers Diaphragm Diameter = 4.1"

Number of Seals	Seal Materials		Flange Size - Pressure Rating - Code								
	Wetted	Non-wetted	DAA	DCA	DCC	DGA	DGC	DDA	DDC	DFA	DFC
1	BA	4	748	748	770	748	770	685	599	881	1082
1	BB	4	814	814	835	814	835	751	853	947	1146
1	BC	4	1379	1379	1429	1379	1429	1280	1294	1490	1669
1	BE	4	891	891	979	891	979	866	968	1047	1246
1	BF	4	857	857	879	857	879	795	896	990	1190
1	BG	4	1422	1422	1473	1422	1473	1323	1338	1533	1712
1	BA	5	596	596	618	596	618	533	533	577	655
1	BB	5	662	662	683	662	683	600	600	643	719
1	BC	5	1227	1227	1278	1227	1278	1128	1041	1186	1241
1	BE	5	740	740	826	740	826	714	714	743	820
1	BF	5	706	706	727	706	727	643	643	685	763
1	BG	5	1270	1270	1320	1270	1320	1172	1084	1094	1285
2	BA	4	1496	1496	1540	1496	1540	1371	1575	1763	2164
2	BB	4	1627	1627	1671	1627	1671	1502	1706	1893	2293
2	BC	4	2757	2757	2859	2757	2859	2559	2589	2979	3337
2	BE	4	1783	1783	1958	1783	1958	1731	1935	2093	2493
2	BF	4	1715	1715	1758	1715	1758	1590	1791	1961	2381
2	BG	4	2845	2845	2947	2845	2947	2647	2675	3067	3423
2	BA	5	1192	1192	1236	1192	1236	1068	1068	1155	1309
2	BB	5	1323	1323	1367	1323	1367	1199	1199	1286	1438
2	BC	5	2641	2641	2555	2641	2555	2255	2255	2373	2481
2	BE	5	1479	1479	1652	1479	1652	1427	1427	1486	1640
2	BF	5	1411	1411	1455	1411	1455	1286	1286	1371	1525
2	BG	5	2541	2541	2641	2541	2641	2343	2343	2459	2569

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

Number of Seals	Seal Materials	Flange Size - Pressure Rating - Code		
	Wetted	Diaph. Dia. = 2.4" BCA, BCC, BGA,, BGC, BDA, BDC, BFA, BFC	Diaph. Dia. = 2.9" CAA, CCA, CCC, CGA, CGC, CDA, CDC	Diaph. Dia. = 4.1" DAA, DCA, DCC, DGA, DGC, DDA, DDC, DFA, DFC
1	BA	44	44	115
1	BB	44	44	115
1	BC	101	138	159
1	BE	95	131	145
1	BF	44	44	115
1	BG	101	138	159
2	BA	88	88	231
2	BB	88	88	231
2	BC	202	274	318
2	BE	190	260	290
2	BF	88	88	231
2	BG	202	274	318

TABLE 6 - Flanged Seals with Extended Diaphragms

Number of Seals	Seal Materials		Flange Size - Pressure Rating - Code					
	Wetted	Extension	Diaphragm Diameter = 2.9"			Diaphragm Diameter = 3.5"		
			EFA	EFC	EFM	FGA	FGC	FGP
1	EA	2	744	760	811	807	832	890
1	EB	2	766	781	832	865	890	948
1	EC	2	1135	1151	1201	1973	2001	2057
1	EA	4	787	803	854	865	890	948
1	EB	4	810	825	876	922	948	1006
1	EC	4	1346	1364	1412	2252	2282	2338
1	EA	6	831	847	898	922	948	1006
1	EB	6	853	869	920	980	1006	1064
1	EC	6	1559	1577	1623	2533	2560	2618
2	EA	2	1488	1519	1621	1613	1665	1781
2	EB	2	1531	1563	1665	1729	1781	1895
2	EC	2	2271	2301	2401	3945	4004	4114
2	EA	4	1575	1607	1709	1729	1781	1895
2	EB	4	1619	1650	1752	1843	1895	2012
2	EC	4	2693	2727	2823	4505	4563	4676
2	EA	6	1663	1694	1796	1843	1895	2012
2	EB	6	1706	1737	1839	1960	2012	2129
2	EC	6	3117	3155	3246	5064	5120	5238

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

Number of Seals	Material - Wetted without Flushing Connection	Flange Size - Pressure Rating - Code		Diaph. Dia. = 4.1"
		Diaph. Dia. = 2.4" JJG, JKG, JLG	Diaph. Dia. = 2.9" KJG, KKG, KLG	LJG, LKG, LLG
1	JA	146	173	371
1	JB	206	233	459
1	JC	227	254	523
1	JD	553	605	1089
1	JE	264	307	553
1	JF	259	285	567
1	JG	605	658	1199
2	JA	292	348	743
2	JB	412	466	919
2	JC	456	508	1047
2	JD	1105	1209	2179
2	JE	528	614	1105
2	JF	518	570	1134
2	JG	1209	1315	2397

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

Number of Seals	Material - Wetted without Flushing Connection	Flange Size - Pressure Rating - Code		Diaph. Dia. = 4.1"
		Diaph. Dia. = 2.4" JJG, JKG, JLG	Diaph. Dia. = 2.9" KJG, KKG, KLG	LJG, LKG, LLG
1	JB	337	370	611
1	JC	359	393	676
1	JD	683	743	1241
1	JE	395	445	705
1	JF	389	422	719
1	JG	735	795	1349
2	JB	674	741	1221
2	JC	718	784	1353
2	JD	1367	1486	2483
2	JE	788	888	1409
2	JF	778	845	1438
2	JG	1471	1590	2699

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

Number of Seals	Seal Materials	Flange Size - Pressure Rating - Code		Diaph. Dia. = 4.1"
	Wetted	Diaph. Dia. = 2.4" JJG, JKG, JLG	Diaph. Dia. = 2.9" KJG, KKG, KLG	LJG, LKG, LLG
1	JA	19	19	88
1	JB	30	30	88
1	JC	30	30	88
1	JD	55	55	159
1	JE	30	30	88
1	JF	30	30	88
1	JG	55	55	159
2	JA	40	40	174
2	JB	58	58	174
2	JC	58	58	174
2	JD	110	110	318
2	JE	58	58	174
2	JF	58	58	174
2	JG	110	110	318

TABLE 10 - Saddle Seals Diaphragm Diameter = 2.4"

Number of Seals	Material		Size - Pressure Rating - Code	
	Wetted	Non-Wetted	RPK	RQK
1	RA	B	285	277
1	RB	B	497	377
1	RC	B	427	400
1	SB	B	184	184
1	SC	B	209	209
1	RA	C	445	437
1	RB	C	566	537
1	RC	C	588	559
1	SB	C	335	335
1	SC	C	361	361
2	RA	B	570	556
2	RB	B	814	756
2	RC	B	855	799
2	SB	B	366	366
2	SC	B	418	418
2	RA	C	888	874
2	RB	C	1132	1064
2	RC	C	1176	1117
2	SB	C	670	670
2	SC	C	722	722

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