

REMOTE SEAL SR301

• Remote Seals: Flanged (SR301T), Threaded (SR301R), Pancake (SR301P), Sanitary (SR301S), and Flanged with Extension (SR301E).

• Standards:

• ASME Dimensions 1" to 4", pressure class 150# to 2500#.

• DIN Dimensions DN25 to DN100, pressure class PN10 to PN250.

• JIS Dimensions 40A to 100A, pressure class 10K to 40K.

• Threaded Dimensions ¼" to 1½" NPT with 5800 psi pressure limit.



Flanged and Sanitary Remote Seals for Pressure Transmitters

SR301

Is a complete line of Remote Seals, which allows the pressure transmitter to do measurements in situations where a direct contact of the transmitter's diaphragm with process fluid is not allowed.





What is SR301?

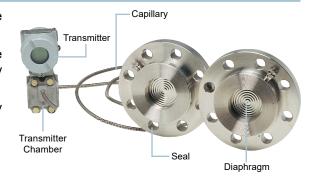
 The SR301 series is a complete line of Remote Seals, which allows the pressure transmitter to do measurements in situations where a direct contact of the transmitter's diaphragm with process fluid is not allowed.

Basic Features

Remote seal transmitters are used when it is necessary to isolate the transmitter from the process.

The seal system comprises a process connection with a flexible diaphragm seal between the process fluid and a liquid filled capillary tube, connected to the transmitter.

The diaphragm isolates the process fluid while the filled capillary tube transmits the process pressure to the transmitter sensor.



Available Models

The remote seals available in SR301 series are:

- Flanged (SR301T), Threaded (SR301R), Pancake (SR301P), where those three models has an optional flush connection, Sanitary (SR301S) and Flanged with Extension (SR301E), with several materials for most of the industrial processes.
- The flanged remote seals are available in the standards ASME, DIN and JIS. The dimensions are 1" to 4"; DN25 to DN100 and 40A to 100A; and the pressure classes are 150# to 2500#; PN10 to PN250 and 10K to 40K, respectively.
- The threaded seals have connections of ¼" NPT to 11/2" NPT with pressure limit of 5800 psi to 25°C.



Integral Flange

Considerations for Remote Seal Specification

In the remote seal specification the following items should be considered:

- Process Pressure (minimum and maximum);
- Process Temperature (minimum and maximum);
- Process Fluid;
- Connection to Process;
- Seal Installation Type;
- Distance between Pressure Tap and the Transmitter.



Application

The SR301 is assembled with both gage and differential pressure transmitters. When used in food applications the connections are sanitary. The level models are also available.

The typical applications of the remote seal with transmitter are:

- Process with corrosion;
- Process with viscosity or with suspended solids;
- Process with possibility of solidifying, crystallizing or freezes;
- Process that demand ease of cleaning;

Main Functions

The use of the remote seal guarantees a correct measurement and without damage to the pressure transmitter. Therefore the main functions are:

- To prevent the process fluid from entering the pressure transmitter thereby protecting the instrument if the process fluid is corrosive and would otherwise attack and destroy the transmitter;
- To prevent process fluids with very high temperature from coming in contact with and damaging the pressure sensor;
- To prevent abrasive process fluids from scratching the isolating diaphragm. This may happen if the process fluid is carrying suspended solids;
- To prevent the process fluid from building up or solidifying inside the transmitter and blocking the transmission of pressure to the sensor. This may happen if the process fluid freezes, polymerizes or if carrying suspended solids, that are viscous or crystallizing;
- Sanitary seals are used to prevent bacteria etc. to build up in cavities in the transmitter. These seals are designed to be easily cleaned. These are required in the pharmaceutical and food & beverage industries.

Main Advantages

- Better Cost/Benefit
- Easy Maintenance
- Easy Installation
- High Durability

Avoid the Common Errors

Using the SR301 avoids possible errors as:

- Wetted materials not compatible with the process fluid. Consider normal operation as well as cleaning;
- Fill fluid not compatible with the process fluid may cause hazardous situations in case of diaphragm ruptures and the fluids come in contact with the process;
- Vacuum below 600 mmHg requires special considerations. Operation at these high vacuums is possible if done right.
 Consult Smar for advice;
- Process data such as pressure, temperature, required seal type and process fluid must be provided to evaluate the application;
- Only one seal or capillary with different lengths on a differential pressure transmitter causes zero shift as the temperature changes. Keep capillaries with same length, if possible;
- Long capillaries cause increased response time and increased error due to the temperature effect;
- The temperature is beyond the upper or lower operating temperature range of the fill fluid;
- The process pressure exceeds the seal pressure rating at maximum process temperature.





Fill Fluid Considerations

Before a fill fluid is chosen, it must be determined that it is suitable for operation at the extremes of vacuum and temperature at which it will operate. Another important consideration is that the diaphragm may be damaged.

It is therefore important that the fill fluid does not start a hazardous chemical reaction with the process fluid.

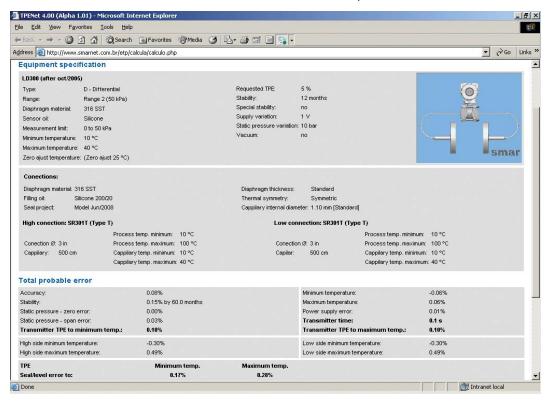
As a rule of thumb, do not use hydrocarbon based fill fluids, such as silicone, with strong oxidizers like: chlorine, hydrogen, hydrazine, oxygen, peroxide or nitric acid. Also do not use Fluorolube oil if there is a chance for it to come in contact with aluminum or magnesium or vacuum.



The user must insure that the right type of seal with the proper fill fluid and wetted materials is used, and if a remote seal should be used at all. See in the SR301 manual the software dedicated to the calculation of the pressure transmitters with the possible process connections assembly error (TPE), and the calculations for temperature errors and response time. Or request an equipment performance report through TPE to the Applications Engineering department and Commercial Areas of Smar.

TPE Software

Smar offers equipment performance report generated by the TPE software (Total Probable Error), which accomplishes a probable total estimate for the transmitter error with the connections to the process sealed.



The pressure transmitter accuracy is not significantly altered by the addition of seals / level. However, the error of resulting measurement of the combination suffers significant increase due to geometric and physical parameters, because of the temperature variation.

Vacuum Considerations

The fill fluid vapor pressure point is dependent on temperature. At a combination of high temperature and pressure near vacuum the fill fluid may vaporize and the pressure measurement becomes inaccurate. The seal may also become permanently destroyed. Careful selection of fill fluid is therefore of upmost importance.

The SR301 series provides features of the fill fluids. This data is given in table 7.





"T" Type Flanged Remote Seal - SR301T

The SR301T is a flanged seal with welded diaphragm. It can be supplied with an optional flush connection and lower housing. The flush connection removes deposits on the diaphragm without disconnecting the seal. If installed correctly,

the seal flange is a non-wetted part and does not get wet in contact with the process fluid during normal operation. However, the diaphragm and housing are wetted.

Bolts and nuts are not supplied with the seal.

For Dimensions see the pages 18, 19 (for integral flange) and 20 (for slip-on flange). For Pressure Limits see the Tables 1, 2 and 3 in the page 16.



01T "T'	TYP	E FL	ANGE	D RE	MOTE	SEAL												
COL							and St	andard										
1	'. F 1'			E B-16		ange	6		DIN EN1092-			С	40 A	JIS B	2220			
2 3 4 5		1/2"	ASM ASM ASM	E B-16 E B-16 E B-16 E B-16	3.5 3.5 3.5		7 8 9 A	DN 40 DN 50 DN 80	DIN EN1092- DIN EN1092- DIN EN1092- DIN EN1092- DIN EN1092-	1 1		D E F Z	50 A	JIS B2 JIS B2 JIS B2	2220 2220 2220	5		
	CC	D.	Pres	sure (Class													
	1 2 3 4 5		150 # 300 # 600 # 1500 2500 PN63	# A # A # A	SME B- SME B- SME B- SME B- SME B- IN EN1	16.5 16.5 16.5 (4 16.5	.)	7 8 9 A B C	PN160 DIN	EN109	92-1 92-1 92-1 92-1 (3)		D E F G H Z	PN6 10K 20K 40K	63/160 (((DIN EN DIN EN JIS B222 JIS B222 JIS B222 - Ver nota	11092 20 20 20 20	
		(COD.	Сар	illary L	.ength												
			1 2 3 4 5	500 1000 1500 2000 3000	mm mm		6 7 8 9 B	4000 5000 6000 8000 9000	mm mm mm	A C D E	10000 11000 12000 7000) mm) mm						
		COD. Diaphragm Material						rial										
 				I H M T	Mone	SST elloy Ca el 400 (alum (1	10)	U A G L	316L SST (316L SST (vith Te Gold P	Plated	•					C D	Hastelloy with Teflon Lining 304L SST
	i				COD.	Fill	Fluid											
					S D F T N	DC 7 Fluor Sylth	04 – s		oil				E H	K	omblin rytox 1	n + Wate m 06/06 1506 rbon 4.2	er (7)	
 			i			COD	. Lov	ver Hou	sing Material									
 						0 1 2 3	316 Has	SST telloy C	ver Housing (2) 276 (7) ex (UNS 32750) (7)			4 5 M	30	uplex (I4L SS onel	UNS 318 T (7)	303) ((7)
ĺ						\perp	COD	. Gas	ket Material									
			 				0 T		out Gasket n (Ptfe)					C I		Grafoil (FI 16L SST		le Grafoil)
' 			i				T	COD	. Optional Ite	ms *								
			i	i			İ	ZZ	Special Option	ns – S	Specify							
! !				i.	i	i i	i	i i										

^{*} Leave it blank if there are not optional items.





Shield Material	A1 - 316 Stainless Steel A3 - 316 Stainless Steel With PVC Lining
Material / Flange Type	F0 - 316L Stainless Steel (Integral Flange) F1 - C276 Hastelloy (Integral Flange) (7) F2 - 304L Stainless Steel (Integral Flange) (7) F3 - Super Duplex (UNS 32750) (Integral Flange) (7) F4 - Duplex (UNS 31803) (Integral Flange) (7)
Lower Housing Connection	G0 - With Flush Connection of 1/4" NPT (If supplied with housing) G1 - With Two Flush Connections of 1/4" NPT at 180° G3 - With Two Connections of 1/2" NPT - 14 NPT at 180° (With Lid) G4 - Without Flush Connection G5 - With Flush Connection of 1/2" NPT
Face (8)	H0 - Raised Face (ASME, DIN, JIS) H1 - Flat Face (ASME, DIN) H2 - Flat Face With Sealing Channel –RTJ (ASME B 16.20) (5)
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service) P5 - Mounting according NACE standard

Note - SR301T:

- (1) Fluorolube Filling Fluid is not available with Monel Diaphragm.
- (2) Supplied Without Gasket.
- (3) Standard DIN EN 1092-1 subdivides DN80 into PN16 (c=20) and PN40 (c=24), Smar provides only PN40 (c=24), external diameter and holes coincide.
- (4) Also fits the #900 class for diameters of 1", 1 1/2", and 2".
- (5) Only the gasket code available I (Stainless 316).
- (6) Only RTJ.
- (7) Item by inquiry.
- (8) Finishing of the flange faces according to specific standards.
- (9) Applicable only for:

 Diameters/Capillary Length:

 2" ASME B 16.5, DN 50 DIN, JIS 50 A, for seals up to 3 meters of capillary and level models (by inquiry).

 3" ASME B 16.5, DN 80 DIN, JIS 80 A, for seals up to 5 meters of capillary and level models.

 4" ASME B 16.5, DN 100 DIN, JIS 100 A, for seals up to 8 meters of capillary and level models.

 Faces: RF and FF.

 Temperature Limits:

 - Temperature Limits:

 +10 to 100°C;

 +101 to 150°C (by inquiry).

 Not applicable for use with housing.
 - (10) Diaphragms of Titanium, Tantalum, and Monel available only in 0.1 mm.





Flanged Remote Seal with Extension - SR301E

The SR301E is a flanged seal with welded diaphragm. The diaphragm is extended from the seal flange and welded to the extension. Different from Model SR301T, it is not supplied with lower a housing, because the diaphragm coincides with the internal wall of the tank. Bolts and nuts are not supplied with the seal.



For Dimensions see the pages 18, 19 (for integral flange) and 20 (for slip-on flange). For Pressure Limits see the Tables 1 and 2 in the page 16.

MODEL		OTE S																		
SR301E	FLA	NGE	REN	IOTE S	TE SEAL WITH EXTENSION															
-	COL	DE	Pro	cess C	cess Connection, Range and Standard (3)															
	2 2 2 3 3 3	1 2 3 1 2 3	1.1/2 1.1/2 2" 1! 2" 30	1.1/2" 300 # ASME B-16.5 4 2 3" 300 # ASM 1.1/2" 600 # ASME B-16.5 4 3 3" 600 # ASM 2" 150 # ASME B-16.5 5 1 4" 150 # ASM 2" 300 # ASME B-16.5 5 2 4" 300 # ASM						# ASME B-16.5 # ASME B-16.5 # ASME B-16.5 # ASME B-16.5 # ASME B-16.5	5	7 8 9 A A		B C A	DN 50 DN 80 DN 10	PN10/40 DIN EN10 PN10/40 DIN EN10 PN10/40 DIN EN10 PN10/16 DIN EN10 PN10/16 DIN EN10 PN25/40 DIN EN	092-1 092-1 1092-1			
1		- [CODI	E Cap	oillary L	ength.														
			1 2		0 mm 0 mm		3 4	1500 m 2000 m		5 6		8000 mm 1000 mm	7 8	5000 n 6000 n			E 9	7000 mm 8000 mm	A B	10000 mm 9000 mm
j	i			CODE	Diap	ohragn	n Mate	rial												
	į	į		I H M	Haste	Stainle: lloy C2 l 400 (4	76	U	Tantalur Titanium 316L St	า	Stee	el with Teflon Lin	ing		Stair	nless S	Steel w	nless Steel vith Halar Lining (6) ining		
					CODE	Fil	ling Fl	uid												
					S D F	DC 7	04 - s	ilicone oil ilicone oil MO-10 (- 1	T Syltherm 8 N Neobee M Fomblim 0	20 (4)			H		rytox 1506 alocarbom 4.2		
						CODE	Ext	ension L	ength (2	2)										
1			- !			1	50 r	nm (2")			2	100 mm (4")			3	150 r	nm (6 '	')	4	200 mm (8")
							CODI	Optio	nal Item	ıs*										
				İ			ZZ	Specia	I Options	s – Spe	ecify									
SR301E -	4	2	3	- H	s	- 1														

^{*} Leave it blank when there are not optional items.

Optional Items

Shield Material	A1 - 316 Stainless Steel A3 - 316 Stainless Steel With PVC Lining	
Material / Flange Type	F0 - 316L Stainless Steel (Integral Flange) F1 - C276 Hastelloy (Integral Flange) (3) F2 - 304L Stainless Steel (Integral Flange) (3)	F3 - Super Duplex (UNS 32750) (Integral Flange) (3) F4 - Duplex (UNS 31803) (Integral Flange) (3)
Face (6)	H0 - Raised Face (ASME, DIN, JIS)	
Extension Material	J0 - 316 Stainless Steel J1 - C276 Hastelloy	
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service) P5 - Mounting according NACE standard	

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Note - SR301E:

(1) Fluorolube Filling Fluid Is Not Available With Monel Diaphragm.
(2) Standard DIN EN 1092-1 subdivides DN80 into PN16 (c=20) and PN40 (c=24), Smar provides only PN40 (c=24), external diameter and holes coincide.
(3) Item by inquiry.
(4) Diaphragms of Titanium, Tantalum, and Monel available only in 0.1 mm.
(5) Finishing of the flange faces according to specific standards.
(6) Applicable only for:

- Diameters/Capillary Length: 2" ASME B 16.5, DN 50 DIN, JIS 50 A, for seals up to 3 meters of capillary and level models (by inquiry).

3" ASME B 16.5, DN 80 DIN, JIS 80 A, for seals up to 5 meters of capillary and level models.

4" ASME B 16.5, DN 100 DIN, JIS 100 A, for seals up to 8 meters of capillary and level models.

- Faces: RF and FF.

- Temperature Limite:

+10 to 100°C;

+101 to 150°C (by inquiry).
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Threaded Remote Seal - SR301R

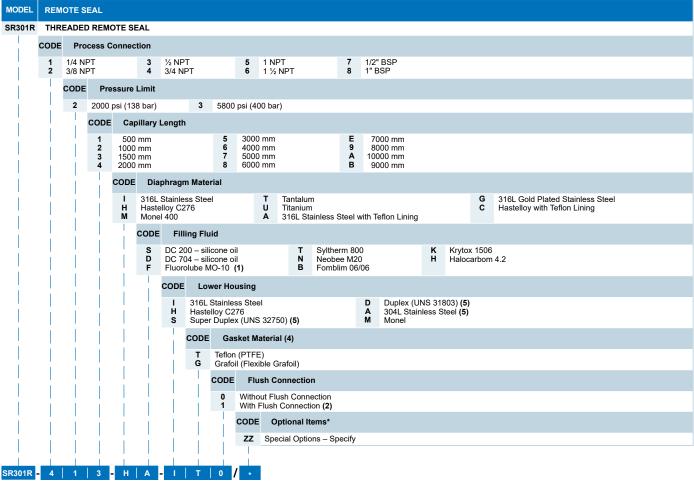
The SR301R is a threaded connection seal. The diaphragm is welded to the flange. This model

is always supplied with lower housing, because the process thread is located in this part. The flush connection (optional) in the housing enables the removal of deposits on the diaphragm without disconnecting the seal. The parts are bolted together and sealed with a gasket.

This model is supplied with bolts and nuts in Stainless Steel 316.

For Dimensions see the page 21. For Pressure Limits see the Table 4 in the page 16.





^{*} Leave it blank when there are not optional items.

Optional Items

Shield Material	A1 - 316 Stainless Steel A3 - 316 Stainless Steel With PVC Lining
Flange Material	F0 - 316 Stainless Steel
Lower Housing Connection	G0 - With Flush Connection of 1/4" NPT (If supplied with housing) G4 - Without Flush Connection
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service)

Note - SR301R:

- (1) Fluorolube Filling Fluid Is Not Available With Monel Diaphragm

- (2) Flush connection not available for process connection 1½" NPT.
 (3) Diaphragms of Titanium, Tantalum, and Monel available only in 0.1 mm.
 (4) See Table Gasket Application Guide for Pressure and Temperature Limits.
- (5) Item by inquiry.



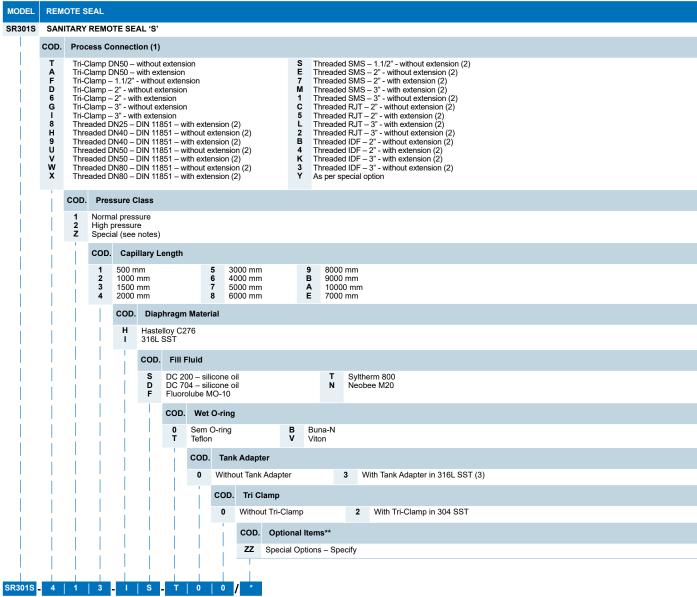


Sanitary Remote Seal - SR301S

The SR301S is a seal for food and other applications where the sanitary connections are necessary. The diaphragm is welded to the connection face, which can be Threaded type or Tri-Clamp, allowing an easy and fast connection/disconnection of the transmitter.

For Dimensions see the pages 20, 21 and 22. For Pressure Limits see the Tables 5 and 6 on pages 11 and 12.





^{*} Leave it blank when there are not optional items.

Optional Items

Shield Material	A1 – 316 Stainless Steel A3 - 316 Stainless Steel with PVC Lining							
Special Procedures	P1 – Degrease Cleaning (Oxygen or Chlorine Service)							
Note - SR301S:								
(1) Extension Material in 316 Stainless Steel and wet part with diaphragm material. (2) Not available for Tri-clamp in 304 stainless steel. (3) Not available for without O-Ring option.								





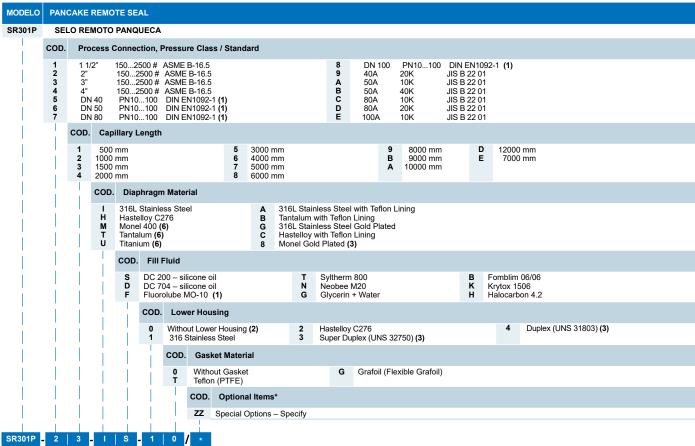
Pancake Remote Seal - SR301P

The SR301P is a seal with welded diaphragm, whose assembly requires blind flanges. This model is supplied with lower housing and flush connection (optional). The flush connection removes deposits on the diaphragm without disconnecting the seal. The seal diaphragm and the lower housing are wetted (in contact with the process fluid). However, the blind flange does not get wet.

Bolts, nuts and blind flange are not supplied with the seal.

The pressure limits are established by pressure class of the blind flange.

For Dimensions see the page 18. For Pressure Limits see the Tables on pages 11 and 12.



Leave it blank when there are not optional items

Optional Items

Shield Material	A1 - 316 Stainless Steel A3 - 316 Stainless Steel with PVC Lining	
Flange Material	F0 - 316L Stainless Steel	
Lower Housing Connection	G0 - With Flush Connection of ¼" NPT (If Supplied with Housing) G1 - With Two Flush Connections of ¼" NPT at 180°	G3 - With Two Connections of $\frac{1}{2}$ " – 14 NPT at 180° (With Lid) G5 - With Flush Connection of 1/2" NPT
Face (5)	H0 - Face (ASME, DIN, JIS) (4)	
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service)	

Notas - SR301P:

- (1) Fluorolube filling fluid is not available with Monel diaphragm.
- (2) Supplied without gasket.
- (3) Item by inquiry.

 (4) This face does not cause interference when mounted with counter-flanges with Flat Face (FF) or Raised Face (RF).
- (5) Finishing of the flange faces according to specific standards.
 (6) Diaphragms of Titanium, Tantalum, and Monel available only in 0.1 mm.





The operating range of the transmitter with remote seal must respect the operating limits of the transmitter sensor and also the connection pressure limit (Flanges - Tables on pages 11 and 12).

PRESSURES TABLE FOR SEAL AND LEVEL FLANGES ASME B16.5 2017 STANDARD

PRES	SSURES TABL	E FOR S	EAL AN	D LEVE	L FLAN	GES ASI	ME B16.	5 2017 9	STANDA	RD				
Material	Pressure			Мах	imum T	emperat	ure Allo	wed						
Group	Class	-29 a 38	50	100	150	200	250	300	325	350				
				Maxi	mum Pr	essure A	Allowed	(bar)						
	150	20	19,5	17,7	15,8	13,8	12,1	10,2	9,3	8,4				
	300	51,7	51,7	51,5	50,3	48,3	46,3	42,9	41,4	40,3				
Hastelloy C276	600	103,4	103,4	103	100,3	96,7	92,7	85,7	82,6	80,4				
02.0	1500	258,6	258,6	257,6	250,8	241,7	231,8	214,4	206,6	201,1				
	2500	430,9	430,9	429,4	418,2	402,8	386,2	357,1	344,3	335,3				
Material	Pressure			Мах	imum T	emperat	ure Allo	wed						
Group	Class	-29 a 38	50	100	150	200	250	300	325	350				
				Maxi	mum Pr	essure A	Allowed	(bar)						
004000	150	20	19,5	17,7	15,8	13,8	12,1	10,2	9,3	8,4				
S31803 Duplex	300	51,7	51,7	50,7	45,9	42,7	40,5	38,9	38,2	37,6				
S32750	600	103,4	103,4	101,3	91,9	85,3	80,9	77,7	76,3	75,3				
Super Duplex	1500	258,6	258,6	253,3	229,6	213,3	202,3	194,3	190,8	188,2				
Duplex	2500	430,9	430,9	422,2	382,7	355,4	337,2	323,8	318	313,7				
Material	Pressure		Maximum Temperature Allowed											
Group	Class	-29 a 38	50	100	150	200	250	300	325	350				
		Maximum Pressure Allowed (bar)												
	150	15,9	15,3	13,3	12	11,2	10,5	10	9,3	8,4				
	300	41,4	40	34,8	31,4	29,2	27,5	26,1	25,5	25,1				
AISI316L	600	82,7	80	69,6	62,8	58,3	54,9	52,1	51	50,1				
	1500	206,8	200,1	173,9	157	145,8	137,3	130,3	127,4	125,4				
	2500	344,7	333,5	289,9	261,6	243	228,9	217,2	212,3	208,9				
Material	Pressure			Max	imum T	emperat	ure Allo	wed						
Group	Class	-29 a 38	50	100	150	200	250	300	325	350				
				Maxi	mum Pr	essure <i>i</i>	Allowed	(bar)						
	150	19	18,4	16,2	14,8	13,7	12,1	10,2	9,3	8,4				
	300	49,6	48,1	42,2	38,5	35,7	33,4	31,6	30,9	30,3				
AISI316	600	99,3	96,2	84,4	77	71,3	66,8	63,2	61,8	60,7				
	1500	248,2	240,6	211	192,5	178,3	166,9	158,1	154,4	151,6				
1					i .		1	1	1	1				



351,6

320,8

297,2

278,1

263,5

257,4

252,7

2500

413,7

400,9



PRESSURES TABLE FOR SEAL AND LEVEL FLANGES DIN EN 1092-1 2008 STANDARD

Material	Pressure	Maximum Temperature Allowed										
Group	Class	RT*	100	150	200	250	300	350				
			Maxi	mum Pr	essure A	Allowed	(bar)					
	PN 16	16	13,7	12,3	11,2	10,4	9,6	9,2				
	PN 25	25	21,5	19,2	17,5	16,3	15,1	14,4				
4050	PN 40	40	34,4	30,8	28	26	24,1	23				
10E0 AISI 304/304L	PN 63	63	54,3	48,6	44,1	41,1	38,1	36,3				
7 (101 00 1/00 12	PN 100	100	86,1	77,1	70	65,2	60,4	57,6				
	PN 160	160	137,9	123,4	112	104,3	96,7	92,1				
	PN 250	250	215,4	192,8	175	163	151,1	144				

Material	Pressure	Maximum Temperature Allowed										
Group	Class	RT*	100	150	200	250	300	350				
			Maxi	mum Pr	essure /	Allowed	(bar)					
	PN 16	16	16	14,5	13,4	12,7	11,8	11,4				
	PN 25	25	25	22,7	21	19,8	18,5	17,8				
	PN 40	40	40	36,3	33,7	31,8	29,7	28,5				
14E0 AISI 316/316L	PN 63	63	63	57,3	53,1	50,1	46,8	45				
AIGI 310/310E	PN 100	100	100	90,9	84,2	79,5	74,2	71,4				
	PN 160	160	160	145,5	134,8	127,2	118,8	114,2				
	PN 250	250	250	227,3	210,7	198,8	185,7	178,5				

Material	Pressure	Maximum Temperature Allowed									
Group	Class	RT*	100	150	200	250	300	350			
		Maximum Pressure Allowed (bar)									
	PN 16	16	16	16	16	16	-	-			
16E0	PN 25	25	25	25	25	25	-	-			
1.4410 Super	PN 40	40	40	40	40	40	-	-			
Duplex	PN 63	63	63	63	63	63	-	-			
1.4462 Duplex	PN 100	100	100	100	100	100	-	-			
Dublex	PN 160	160	160	160	160	160	-	-			
	PN 250	250	250	250	250	250	-	-			

^{*}RT = Reference Temperature (-10 to 50 °C)

PRESSURES TABLE FOR SEAL AND LEVEL FLANGES JIS 2220 - 2012 STANDARD

		Maximum Temperature Allowed									
Grupo de Material	Pressure Class	Tamb a 120°	220°	300°	350°						
Material	01033	Maximum Pressure Allowed (bar)									
	10k	14	12	10							
AISI316L	20k	34	31	29	26						
	40k	68	62	57	52						

- The Tables are based on the standards and are subject to modifications. For more details consult the corresponding standards;
 It is necessary verify the application limits of the sealing gasket, because the limits can do unviable the tables above;
 The temperature limits of the fill fluid limit this tables. See Table 2.5, Section2.



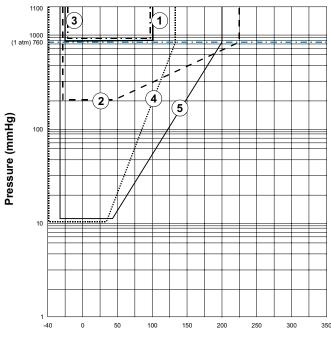


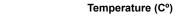
Fluid	Limit of °C Temperature (°F) to Pabs < 1 atm (Vacuum) (3)	Limit of °C Temperature (°F) to Pabs > 1 atm	Viscosity (cSt) at 25°C	Density (g/ cm3) at 25°C	Volumetric Expansion Coefficient 1/°C (1/°F)	Types of Application
Sillicone DC200	-40 to 100 (-40 to 212) (3)	-40 to 170 (-40 to 338)	20	0.950	0.001070 (0.000594)	General (Atoxicity, not irritating, odorless, Food Processing)
Sillicone DC704	0 to 200 (+32 to 392) (3)	0 to 315 (+32 to 599)	39	1.070	0.000950 (0.000528)	General (High Temperatures and Vacuum)
Fluorolube MO-10	N.A. (2)	-20 to 100 (-4 to 212)	50	1.910	0.000874 (0.000486)	Oxygen, Chlorine, Nitric Acid
Syltherm 800	N.A. (2)	-40 to 350 (-40 to 662)	10	0.934	0.001500 (0.000833)	General (Positive and Negative External Temperature)
Neobee M20 (1)	-15 to 120 (+5 to 248) (3)	-15 to 225 (+5 to 437)	9.5	0.920	0.001008 (0.000560)	Foods, Beverage and Pharmaceuticals
Glycerin (50%) and Water (50%)	N.A. (2)	-15 to 93 (+5 to 199.4)	12.5	1.130	0.000342 (0.000190)	Foods
Fomblim	-20 to 100 (-4 to 212) (3)	-20 to 200 (-4 to 392)	48	1.87	0.000900 (0.000500)	Low toxicity, excellent compatibility with metals, plastics and elastomers, excellent performance in high vacuum
Krytox	-40 to 100 (-40 to 212) (3)	-40 to 120 (-40 to 248)	42	1.88	0.000900 (0.000500)	Inert, nontoxic, biologically inert, nonexplosive, nonreactive to all elastomers, plastics and metals, excellent performance in high vacuum
Halocarbon	-45 to 80 (-49 to 176) (3)	-45 to 130 (-49 to 266)	5.6	1.85	0.001199 (0.000667)	Inert, low odor, low toxicity, noncorrosive. Standard for manufacturers of oxygen and reactive liquids

Legend: (1) Propylene Glycol Diester of Octanoato / Decanoato; (2) N.A. – Nonapplicable; (3) Consult graphs in the Figures 1 and 2 when the vacuum pressure is known

Table - Filling Fluid Characteristics





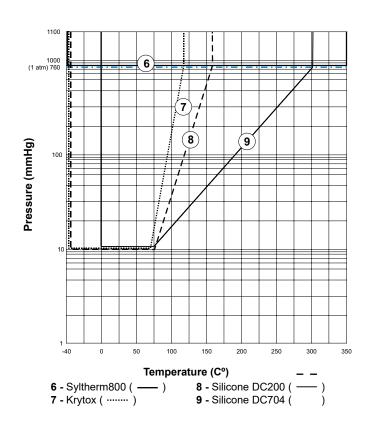


- 1 Fluorolube () 2 Neobee M20 (–) 3 Glycerin + H_2O (–)
- 4 Halocarbon (·······) **5** - Fomblim (—)

Pressure x Temperature Curve (1)

Ring Material	Resistance to Continuou		Application – Recommended Use and Specification					
	Minimum Temperature °C (°F)	Maximum Temperature °C (°F)	Recommended	Not Recommended				
Teflon® (PTFE)	-23 (-10)	232 (450)	General Applications, Excellent resistance to acids, bases, water and amines	To avoid solvents and aromatic fuels.				
Viton	-29 (-20)	205 (400)	Products of Petroleum, Silicone Fluids, Diester Fluids.	Amines, Cetone, Hot Water/Vapor Brake Fluids.				
Buna N			General Applications, Products of Petroleum, Silicone Fluids, Fluids to Ethylene Glycol	Acids, Brake Fluids, Ozone, Cetones.				

Table - O'Ring Application Guide



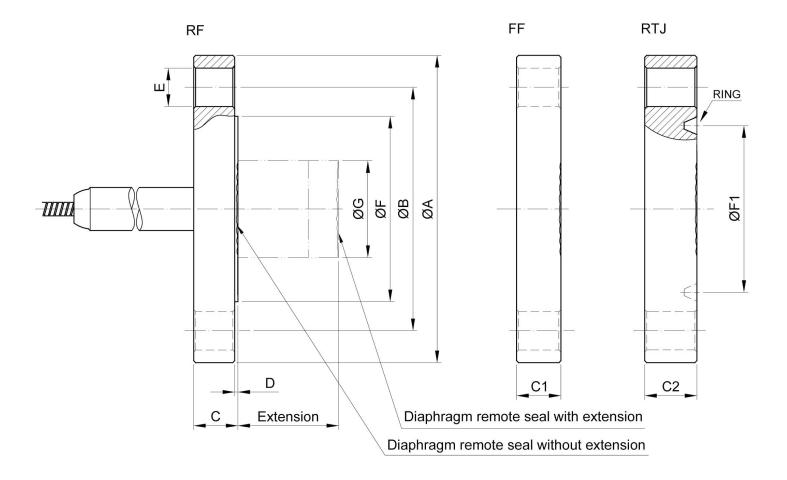
Pressure x Temperature Curve (2)

Ambient	Teflon® (PTFE)	Viton	Buna N
Acetic Acid, 30%	S.I.	++	+++
Acetone	-	-	-
Air, below 93 °C (200° F)	++++	++++	++++
Ammonia Gas, Cold	++++	-	++++
Ammonia Gas, Hot	+++	-	-
Ammonia, Liquid	++	-	+++
Carbon Dioxide, Dry	++++	+++	++++
Carbon Dioxide, Wet	++++	+++	++++
Carbon Monoxide	++++	++++	++++
Caustic Soda	++++	-	+++
Chloro Dioxide	++	+++	-
Citric Acid	++++	++++	++++
Corn Oil	++++	++++	++++
Cottonseed Oil	++++	++++	++++
Diesel Oil	++++	++++	++++
Ethyl Alcohol (Ethanol)	++++	++	++++
Glycol Ethylene	++++	++++	++++
Fish Oil	S.I.	++++	++++
Gasoline	+++	++++	++++
Glucose	++++	++++	++++
Hydrogen	S.I.	++++	++++
Kerosene	+++	++++	++++
Methane	+++	++++	++++
Milk	++++	++++	++++
Mineral Oil	++++	++++	++++
Olive Oil	++++	++++	++++
Oxygen, Gas (Hot)	-	++	-
Oxygen, Liquid	-	-	-
Ozone	++++	++++	-
Propane	++++	++++	++++
Propylene Glycol	++++	++++	++++
Sodium Bicarbonate	++++	++++	++++
Vapour < 149 °C (300 °F)	+++	+++	-
Vapour > 149 °C (300 °F)	++	-	-
Vegetable Oils	++++	++++	++++
Vinegar	S.I.	+++	+++
Water	++++	++++	++++
(++++) Recommended; (++- (-) Not Recommended; (S. I.			ransitory;

Table - O'Ring Materials Guide



SR301T (RF/FF/RTJ) - "T" Type Flanged Remote Seal and SR301E (RF/FF/RTJ) - Flanged Remote Seal with Extension (Integral Flange)





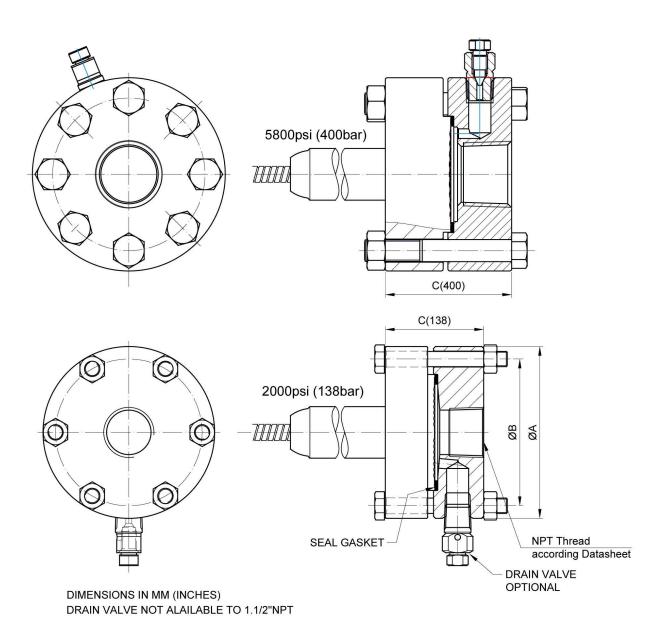


DIMENSIONS IN mm (INCHES) EXTENSION LENGHTS: 0 , 50 , 100 , 150 or 200 EXTENSIONS ONLY AVAILABLE IN RF FLANGES

						ASME-	3 16	.5 - 2	017	DIM	ENS	SION	S							
DN	CLASS	Α	В	С		C1 (FF)	C2	(RTJ)		D		E	F	:	F1 (F	RTJ)	RTJ RING	(Э	HOLES
	150	110 (4.33)	79,2 (3.12)	17 (0.67)	17 (0.67)	21	(0.83)	2	(0.06)	16	(0.63)	50,8	(2)	47,6	(1.87)	R15			4
	300	125 (4.92)	88,9 (3.50)	19 (0.75)	19 (0.75)	25	(0.98)	2	(0.06)	19	(0.75)	50,8	(2)	50,8	(2)	R16			4
1"	600	125 (4.92)	88,9 (3.50)	25 (0.96)		25	(0.98)	7	(0.25)	19	(0.75)	50,8	(2)	50,8	(2)	R16	/	/	4
	1500	150 (5.90)	101,6 (4)	35,6 (1.40)		35	(1.38)	7	(0.25)	25	(0.98)	50,8	(2)	50,8	(2)	R16			4
	2500	160 (6.30)	, ,	42 (1.65)		41,4	(1.63)	7	(0.25)	25	(0.98)	50,8	(2)	60,3	(2.37)	R18			4
	150	125 (4.92)	98,6 (3.88)	20 (0.78)	20 (0.79)	24,4	(0.96)	2	(0.06)	16	(0.63)	73,2	(2.88)	65,1	(2.56)	R19	40	(1.57)	4
	300	155 (6.10)	114,3 (4.5)	21 (0.83)	20 (0.79)	28,7	(1.13)	2	(0.06)	22	(0.87)	,	(2.88)	68,3	(2.68)	R20	40	(1.57)	4
1.1/2"	600	155 (6.10)	114,3 (4.5)	29,3 (1.15)		28,7	(1.13)	7	(0.25)	22	(0.87)		(2.88)	68,3	(2.68)	R20	40	(1.57)	4
	1500	180 (7.09)	,	38,8 (1.53)		38,2	(1.52)	7	(0.25)	28	(1.10)	-	(2.88)	68,3	(2.68)	R20	40	(1.57)	4
	2500	205 (8.07)	146 (5.75)	51,5 (2	2.03)	<u>/</u>	52,4	(2.06)	7	(0.25)	32	(1.26)	73,2	(2.88)	82,6	(3.25)	R23	40	(1.57)	4
	150	150 (5.90)	120,7 (4.75)	20 (0.79)	20 (0.79)	23,9	(0.94)	2	(0.06)	19	(0.75)	92	(3.62)	82,6	(3.25)	R22	48	(1.89)	4
	300	165 (6.50)	127 (5)	22,7 (0.89)	20,7 (0.81)	28,6	(1.13)	2	(0.06)	19	(0.75)	92	(3.62)	82,6	(3.25)	R23	48	(1.89)	8
2"	600	165 (6.50)	127 (5)	32,3 (1.27)		33,3	(1.31)	7	(0.25)	19	(0.75)	92	(3.62)	82,6	(3.25)	R23	48	(1.89)	8
	1500	215 (8.46)	165 (6.50)	45 (1.77)		46	(1.81)	7	(0.25)	25	(0.98)	92	(3.62)	95,3	(3.75)	R24	48	(1.89)	8
	2500	235 (9.25)	171,5 (6.75)	58 (2	2.27)		58,8	(2.31)	7	(0.25)	28	(1.10)	92	(3.62)	101,6	(4)	R26	48	(1.89)	8
	150	190 (7.48)	152,4 (6)	24,3 (0.96)	22,3 (0.88)	28,7	(1.13)	2	(0.06)	19	(0.75)	127	(5)	114,3	(4.5)	R29	73	(2.87)	4
3"	300	210 (8.27)	168,1 (6.62)	29 (1.14)	27 (1.06)	34,9	(1.37)	2	(0.06)	22	(0.87)	127	(5)	123,8	(4.87)	R31	73	(2.87)	8
	600	210 (8.27)	168,1 (6.62)	38,8 (1.53)		39,7	(1.56)	7	(0.25)	22	(0.87)	127	(5)	123,8	(4.87)	R31	73	(2.87)	8
	150	228,6 (9)	190,5 (7.5)	24,3 (0.96)	22,3 (0.88)	28,7	(1.13)	2	(0.06)	19	(0.75)	157	(6.19)	149,2	(5.87)	R36	89	(3.50)	8
4"	300	255 (10)	200 (7.87)	32,2 (1.27)	30,2 (1.19)	38,1	(1.50)	2	(0.06)	22	(0.87)	157	(6.19)	149,2	(5.87)	R37	89	(3.50)	8
	600	275 (10.83	215,9 (8.5)	45,1 (1.77)		46	(1.81)	7	(0.25)	25	(1)	157	(6.19)	149,2	(5.87)	R37	89	(3.50)	8
						EN 1	1092	2-1-20	800	DIM	ENS	SIONS	S							
DN	PN	Α	В	С		C1 (FF)				D		Ε	F	:					3	HOLES
	10/40	115 (4.53)	85 (3.35)	19 (0).75)	19 (0.75)		/	2	(80.0)	14	(0.55)	68	(2.67)			/	1		4
25	63/160	140 (5.51)	100 (3.94)	24 (0).95)			/	2	(80.0)	18	(0.71)	68	(2.67)				_		4
	250	150 (5.91)	105 (4.13)	28 (1	1.10)			/	2	(80.0)	22	(0.87)	68	(2.67)			/			4
	10/40	150 (5.91)	110 (4.33)	20 (0).78)	20 (0.78)			3	(0.12)	18	(0.71)	88	(3.46)				40	(1.57)	4
40	63/160	170 (6.69)	125 (4.92)	28 (1	1.10)				3	(0.12)	22	(0.87)	88	(3.46)				40	(1.57)	4
	250	185 (7.28)	135 (5.31)	34 (1	1.34)				3	(0.12)	26	(1.02)	88	(3.46)				40	(1.57)	4
	10/40	165 (6.50)	125 (4.92)	20 (0	0.78)	20 (0.78)			3	(0.12)	18	(0.71)	102	(4.01)				48	(1.89)	4
50	63	180 (7.09)	135 (5.31)	26 (1	1.02)			/	3	(0.12)	22	(0.87)	102	(4.01)		/		48	(1.89)	4
30	100/160	195 (7.68)	145 (5.71)	30 (1	1.18)		,	/	3	(0.12)	26	(1.02)	102	(4.01)				48	(1.89)	4
	250	200 (7.87)	150 (5.91)	38 (1	1.50)		/		3	(0.12)	26	(1.02)	102	(4.01)				48	(1.89)	8
	10/40	200 (7.87)	160 (6.3)	24 (0	0.95)	24 (0.95)] /		3	(0.12)	18	(0.71)	138	(5.43)				73	(2.87)	8
80	63	215 (8.46)	170 (6.69)	28 (1	1.12)		/		3	(0.12)	22	(0.87)	138	(5.43)	/	/		73	(2.87)	8
	100/160	230 (9.06)	180 (7.09)	36 (1	1.42)				3	(0.12)	26	(1.02)	138	(5.43)				73	(2.87)	8
100	10/16	220 (8.67)	180 (7.08)	20 (0).78)		/		3	(0.12)	18	(0.71)	158	(6.22)				89	(3.50)	8
100	25/40	235 (9.25)	190 (7.5)	24 (0	0.95)		/		3	(0.12)	22	(0.87)	162	(6.38)	/			89	(3.50)	8
						J	IS E	222	0 DI	MEN	SIO	NS								
	CLASSE	Α	В	С						D		E	F	:					3	HOLES
40A	20K	140 (5.5)	105 (4.13)	20 ((0.78)				2	(0.08)	19	(0.75)	81	(3.2)				40	(1.57)	4
	10K	155 (6.1)	120 (4.72)	20 ((0.78)				2	(0.08)	15	(0.59)	96	(3.78)				48	(1.89)	4
50A	20K	155 (6.1)		20 ((0.78)			/	2	(0.08)	19	(0.75)	96	(3.78)				48	(1.89)	8
	40K	165 (6.5)			(1.02)	,			2	(0.08)	19	(0.75)	105	(4.13)		,		48	(1.89)	8
	10K	185 (7.28			(0.87)				2	(0.08)	19	(0.75)	126	(4.96)				73	(2.87)	8
80A	20K	200 (7.87			(0.87)				2	(0.08)	19	(0.75)	132	(5.2)	/			73	(2.87)	8
100A	10K	210 (8.27			(0.78)				2	(0.08)	19	(0.75)	151	(5.95)				89	(3.50)	8
					- 1	/									V					



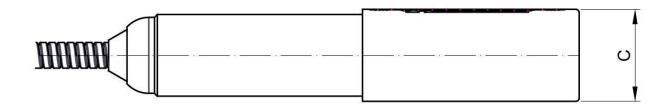
SR301R - Threaded Remote Seal

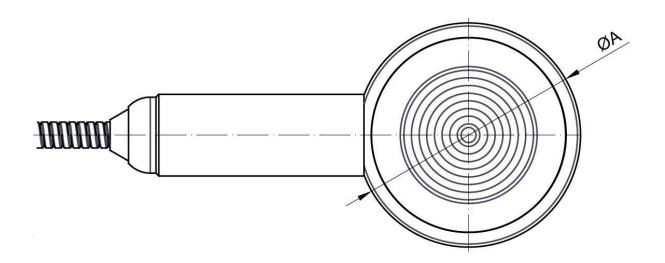


LIMIT	Α	В	С	HOLES	BOLTS
2000psi (138bar)	89 (3.50)	76 (2.99)	51 (2.01)	6	5/16-24UNF
5800psi (400bar)	100 (3.93)	79 (3.11)	65,5 (2.58)	8	7/16-20UNF



SR301P - Pancake Remote Seal without Extension

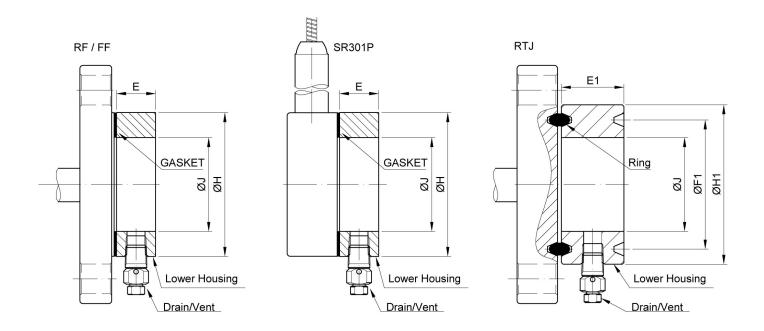




AS	SME-B 16.5	DIM	ENSIO	NS	5
DN	CLASS		С	Ø	Α
1.1/2"	1502500	30	(1.18)	73,2	(2.88)
2"	1502500	30	(1.18)	92	(3.62)
3"	1502500	30	(1.18)	127	(5)
4"	1502500	30	(1.18)	157,2	(6.19)
	DIN EN 1092	2-1 D	IMENSI	ONS	
DN	PN		С	Ø	A
40	10250	30	(1.18)	88	(3.46)
50	10250	30	(1.18)	101,6	(4)
80	10250	30	(1.18)	138	(5.43)
100	10250	30	(1.18)	162	(6.38)



Lower Housing



		DIMENS	IONS - RF / FF -	mm (inch)		
STANDARD	DN	CLASS	Н	J	I	
STANDARD	DIN	CLASS	''	3	1/4"NPT	1/2"NPT
	1"		50,8 (2,00)	35 (1,38)	25	
	1.1/2"		73,2 (2,88)	48 (1,89)	25	35
ASME B16.5	2"	ALL	91,9 (3,62)	60 (2,36)	25	35
	3"		127 (5,00)	89 (3,50)	25	35
	4"	25 68 (2,68) 35 (1,38) 25 40 All 88 (3,46) 48 (1,89) 25	35			
	25		68 (2,68)	35 (1,38)	25	35
DIN EN 4000 4	40		88 (3,46)	48 (1,89)	25	35
DIN EN 1092-1	50	ALL	102 (4,02)	60 (2,36)	25	35
	80		138 (5,43)	89 (3,50)	25	35
	100		158 (6,22)	115 (4,53)	25	35
	40A	20K	81 (3,19)	48 (1,89)	25	35
	50A	10K	96 (3,78)	60 (1,36)	25	35
JIS B 2220	50A	40K	105 (4,13)	60 (1,36)	25	35
5.5 5 2225	904	10K	126 (4,96)	89 (3,50)	25	35
	80A	20K	132 (5,20)	89 (3,50)	25	35
	100A	10K	151 (5,94)	115 (4,53)	25	35

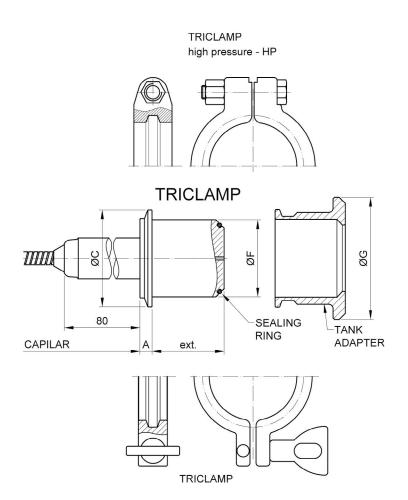
		DIMENSION	NS - RT	J - mm (inch) - ASME B	16.5	
DNI	CLACC	F4	DINIC	114	J	E	1
DN	CLASS	F1	RING	H1	J	1/4"NPT	1/2"NPT
	150	47,6 (1,87)	R15	63,5 (2,50)	35 (1,38)	40	45
	300	50,8 (2,00)	R16	70 (2,75)	35 (1,38)	40	45
1"	600	50,8 (2,00)	R16	70 (2,75)	35 (1,38)	40	45
	1500	50,8 (2,00)	R16	71,5 (2,81)	35 (1,38)	40	45
	2500	60,3 (2,37)	R18	73 (2,88)	35 (1,38)	40	45
	150	65,1 (2,56)	R19	82,5 (3,25)	48 (1,89)	40	45
	300	68,3 (2,69)	R20	90,5 (3,56)	48 (1,89)	40	45
1.1/2"	600	68,3 (2,69)	R20	90,5 (3,56)	48 (1,89)	40	45
	1500	68,3 (2,69)	R20	92 (3,62)	48 (1,89)	40	45
	2500	82,6 (3,25)	R23	114 (4,50)	48 (1,89)	40	45
	150	82,6 (3,25)	R22	102 (4,00)	60 (2,36)	40	45
	300	82,6 (3,25)	R23	108 (4,25)	60 (2,36)	40	45
2"	600	82,6 (3,25)	R23	108 (4,25)	60 (2,36)	40	45
	1500	95,3 (3,75)	R24	124 (4,88)	60 (2,36)	40	45
	2500	101,6 (4,00)	R26	133 (5,25)	60 (2,36)	40	45
	150	114,3 (4,50)	R29	133 (5,25)	89 (3,50)	40	45
3"	300	123,8 (4,87)	R31	146 (5,75)	89 (3,50)	40	45
	600	123,8 (4,87)	R31	146 (5,75)	89 (3,50)	40	45
	150	149,2 (5,87)	R36	171 (6,75)	115 (4,53)	40	45
4"	300	149,2 (5,87)	R37	175 (6,88)	115 (4,53)	40	45
	600	149,2 (5,87)	R37	175 (6,88)	115 (4,53)	40	45

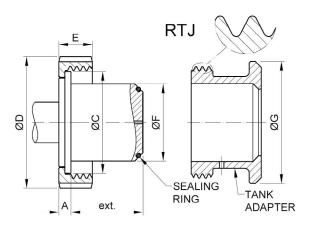
LOWER HOUSING 1/2NPT SUPPLIED WITH PLASTIC PROTECTION NOT LOWER HOUSING 1/2 NPT FOR 1 INCH

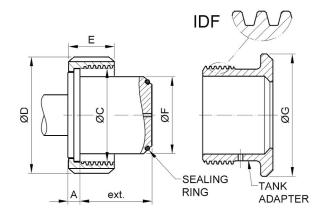


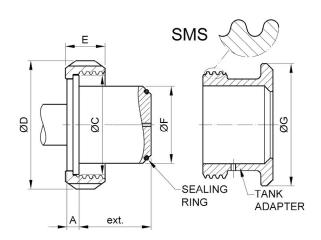


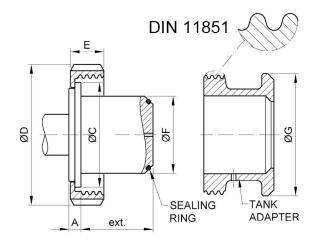
SR301S – Sanitary Remote Seal with Extension





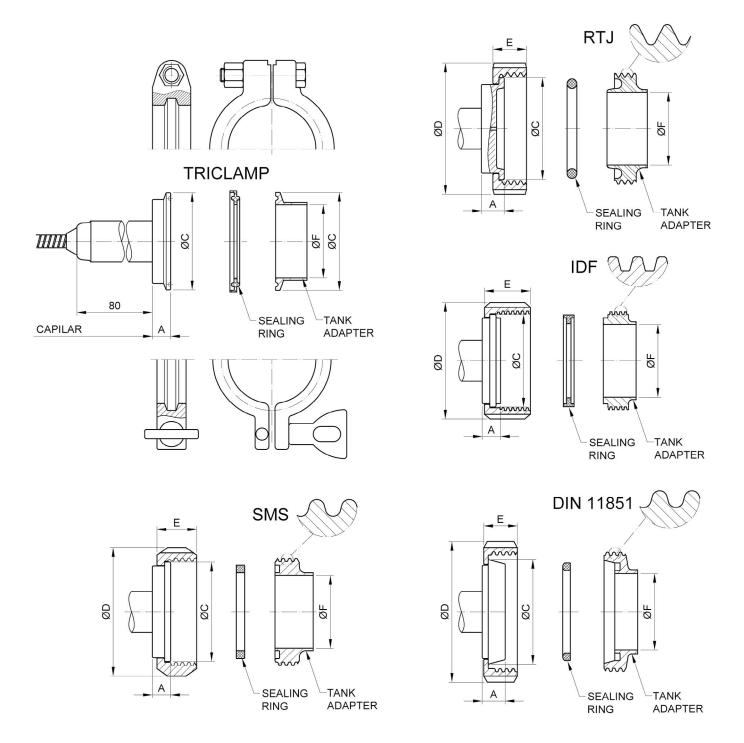








SR301S – Sanitary Remote Seal without Extension







	SR30	1S / LD30X	S / LD4008	3			
CONNECTIONS WITH EXTENSION			Dimens	ions in mm	(inch)		
CONTROL WITH EXTENSION	Α	ØС	ØD	E	ØF	ØG	EXT.
Tri-Clamp DN50 - with extension	8 (0.315)	64 (2.52)			50,5 (1.99)	80 (3.15)	48 (1.89)
Tri-Clamp DN50 HP - with extension	8 (0.315)	64 (2.52)			50,5 (1.99)	80 (3.15)	48 (1.89)
Tri-Clamp - 2" - with extension	8 (0.315)	64 (2.52)			50,5 (1.99)	80 (3.15)	48 (1.89)
Tri-Clamp - 2" HP -with extension	8 (0.315)	64 (2.52)			50,5 (1.99)	80 (3.15)	48 (1.89)
Tri-Clamp - 3" - with extension	8 (0.315)	91 (3.58)			72,5 (2.85)	100 (3.94)	50 (1.96)
Tri-Clamp - 3" HP - with extension	8 (0.315)	91 (3.58)			72,5 (2.85)	100 (3.94)	50 (1.96)
Thread DN25 - DIN 11851 - with extension	6 (0.24)	47,5 (1.87)	63 (2.48)	21 (0.83)	43,2 (1.7)	80 (3.15)	26,3 (1.03)
Thread DN40 - DIN 11851 - with extension	8 (0.315)	56 (2.2)	78 (3.07)	21 (0.83)	50,5 (1.99)	80 (3.15)	48 (1.89)
Thread DN50 - DIN 11851 - with extension	8 (0.315)	68,5 (2.7)	92 (3.62)	22 (0.86)	50,5 (1.99)	80 (3.15)	48 (1.89)
Thread DN80 - DIN 11851 - with extension	8 (0.315)	100 (3.94)	127 (5)	29 (1.14)	72,5 (2.85)	100 (3.94)	50 (1.96)
Thread SMS - 2" - with extension	8 (0.315)	65 (2.56)	84 (3.3)	26 (1.02)	50,5 (1.99)	80 (3.15)	48 (1.89)
Thread SMS - 3" - with extension	8 (0.315)	93 (3.66)	113 (4.45)	32 (1.26)	72,5 (2.85)	100 (3.94)	50 (1.96)
Thread RJT - 2" - with extension	8 (0.315)	66,7 (2.63)	86 (3.38)	22 (0.86)	50,5 (1.99)	80 (3.15)	48 (1.89)
Thread RJT - 3" - with extension	8 (0.315)	92 (3.62)	112 (4.41)	22,2 (0.87)	72,5 (2.85)	100 (3.94)	50 (1.96)
Thread IDF - 2" - with extension	8 (0.315)	60.5 (2.38)	76,2 (3)	30 (1.18)	50,5 (1.99)	80 (3.15)	48 (1.89)
Thread IDF - 3" - with extension	8 (0.315)	87,5 (3.44)	101,6 (4)	30 (1.18)	72,5 (2.85)	100 (3.94)	50 (1.96)

	SR30	1S / LD30x	S / LD4008	3						
CONNECTIONS WITHOUT EXTENSION	Dimensions in mm (inch)									
CONNECTIONS WITHOUT EXTENSION	Α	ØС	ØD	Е	ØF	ØG	EXT.			
Tri-Clamp - 1 1/2" - without extension	12 (0.47)	50 (1.96)			35 (1.38)					
Tri-Clamp - 1 1/2" HP - without extension	12 (0.47)	50 (1.96)			35 (1.38)					
Tri-Clamp - 2" - without extension	12 (0.47)	63,5 (2.5)			47,6 (1.87)					
Tri-Clamp - 2" HP - without extension	12 (0.47)	63,5 (2.5)			47,6 (1.87)					
Tri-Clamp - 3" - without extension	12 (0.47)	91 (3.58)			72 (2.83)					
Tri-Clamp - 3" HP - without extension	12 (0.47)	91 (3.58)			72 (2.83)					
Thread DN40 - DIN 11851 - without extension	13 (0.51)	56 (2.2)	78 (3.07)	21 (0.83)	38 (1.5)					
Thread DN50 - DIN 11851 - without extension	15 (0.59)	68,5 (2.7)	92 (3.62)	22 (0.86)	50 (1.96)					
Thread DN80 - DIN 11851 - without extension	16 (0.63)	100 (3.94)	127 (5)	29 (1.14)	81 (3.19)					
Thread SMS - 1 1/2" - without extension	12 (0.47)	55 (2.16)	74 (2.91)	25 (0.98)	35 (1.38)					
Thread SMS - 2" - without extension	12 (0.47)	65 (2.56)	84 (3.3)	26 (1.02)	48,6 (1.91)					
Thread SMS - 3" - without extension	12 (0.47)	93 (3.66)	113 (4.45)	32 (1.26)	73 (2.87)					
Thread RJT - 2" - without extension	15 (0.59)	66,7 (2.63)	86 (3.38)	22 (0.86)	47,6 (1.87)					
Thread RJT - 3" - without extension	15 (0.59)	92 (3.62)	112 (4.41)	22,2 (0.87)	73 (2.87)					
Thread IDF - 2" - without extension	12 (0.47)	60.5 (2.38)	76 (2.99)	30 (1.18)	47,6 (1.87)					
Thread IDF - 3" - without extension	12 (0.47)	87,5 (3.44)	101,6 (4)	30 (1.18)	73 (2.87)					





SR301 Remote Seal



















Consult our



Rua Dr. Antônio Furlan Junior, 1028 - Sertãozinho, SP - CEP: 14170-480 insales@smar.com.br | +55 (16) 3946-3599 | www.smar.com

