



REMOTE SEAL

- Remote Seals: Flanged (SR301T), Threaded (SR301R), Pancake (SR301P), Sanitary (SR301S), Flanged with Extension (SR301E) and Pancake with Extension (SR301Q).
- Transmitters: Level (LD300L) and Sanitary (LD300S).
- Standards:

• **ANSI** 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 $\frac{1}{2}$ " to $\frac{1}{2}$ " NPT with 2500 psi pressure limit.

• **Sanitary** Given the 3A standard to finishing, wet o'rings and fill fluid.











What is SR301?

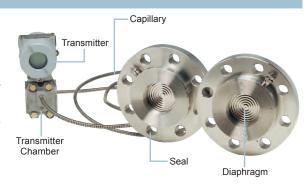
 The SR301 series is a complete line of Remote Seals, which allow the pressure transmitter to do measurements in situations where a direct contact of the transmitter's diaphragm with process fluid is not allowed.

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), Flanged with Extension (SR301E) and Pancake with Extension (SR301Q), with several materials for most of the industrial processes. The Level (LD300L) and Sanitary (LD300S) models are also available.
- The SR301T, SR301E and LD300L models are available with two flange types for process connection: integral and slip-on flange. With the integral flange model the diaphragm is welded directly on the flange. With the slip-on flange model, the diaphragm is not welded on the flange, so it is possible to rotate the flange, making it easier to assemble in the field. Using the slip-on flange model it is possible to choose a less noble material for the flange than what is used in the diaphragm, such as Coated Carbon Steel.



Integral Flange Model



Slip-on Flange Model

- The flanged remote seals are available in the standards ANSI, 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 2500 psi to 25°C.

The sanitary models are according to 3A standard, with threaded connections standard SMS, IDF and Tri-Clamp.

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;
- Process with extreme temperature.

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
- Safety

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 furnished 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 same length, if possible;
- Long capillaries cause response time to increase and augment 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;
- Upper measurement ranges below 600 mmH2O will see errors as the remote seal reduces the sensitivity of the transmitter.





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.

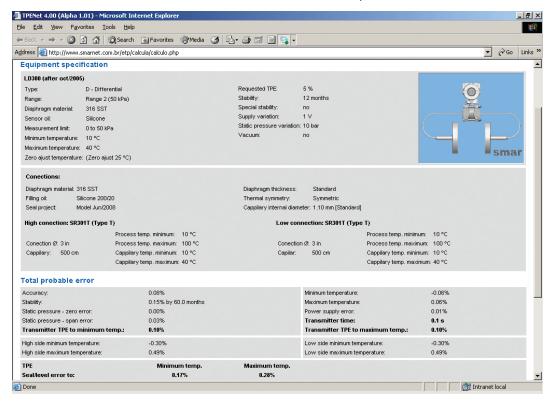
As a rule of thumb, do not use hydrocarbon based fill fluids, such as silicone, with strong oxidizers like: chlorine, hydrogen, hydrazine, oxygen, peroxide or nitric acid. Also do not use Fluorolube oil if there is a chance for it to come in contact with aluminum or magnesium or vacuum.



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

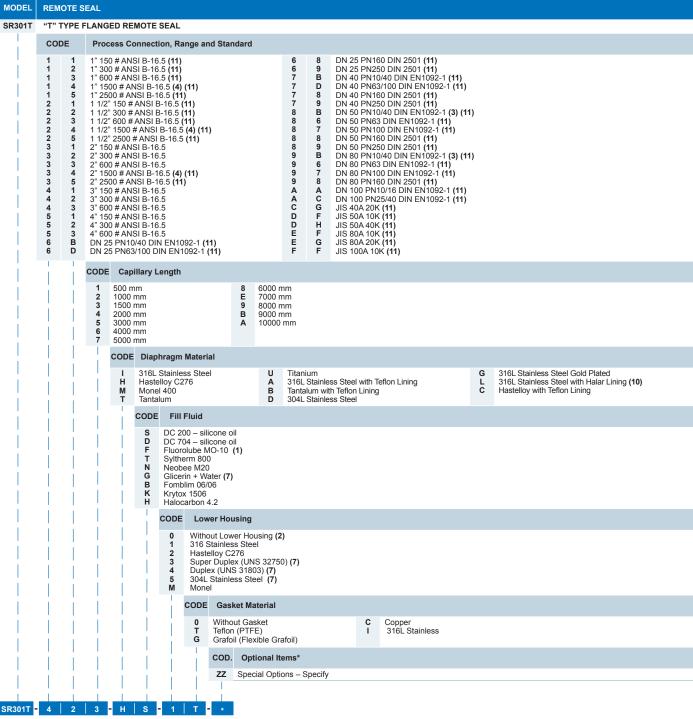
The SR301T is a flanged seal with welded diaphragm. It can be supplied with an optional flush connection and housing. The flush connection removes deposits on the diaphragm without disconnecting the seal. If installed correctly, the seal

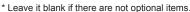
flange is a non-wetted part and does not get wet in contact with the process fluid during normal operation. However, the diaphragm and housing are wetted.

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.











Shield Material	A0 - 304 Stainless Steel A1 - 316 Stainless Steel A2 - 304 Stainless Steel With PVC Lining A3 - 316 Stainless Steel With PVC Lining									
Material / Flange Type	F0 - 316L Stainless Steel (Integral Flange) F1 - C276 Hastelloy (Integral Flange) F2 - 304L Stainless Steel (Integral Flange) (7) F3 - Super Duplex (UNS 32750) (Integral Flange) (7) F4 - Duplex (UNS 31803) (Integral Flange) (7)	F6 - 304 Stainless	n Steel (Slip-on Flange) Steel (Slip-on Flange) s Steel (Slip-on Flange)							
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° G2 - With Two Flush Connections of 1/4" NPT at 180° G3 - With Two Flush Connections of 1/4" NPT at 90° G3 - With Two Flush Connection									
Face (8)	H0 - Raised Face (ANSI, DIN, JIS) H1 - Flat Face (ANSI, DIN) H2 - Flat Face With Sealing Channel - RTJ (ANSI B 16.20) (H3 - Tongue Type Face (DIN) (7) H4 - Groove Type Face (DIN) (7) H5 - Small Tongue (ANSI) (7) H6 - Small Groove (ANSI) (7) H7 - Large Tongue (ANSI) (7) H8 - Large Groove (ANSI) (7)									
Insulator Kit (6)	K0 - Without Kit K1 - With Kit									
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service) (9) P5 - Mounting according NACE standard									
Diaphragm Thickness	N0 – Default (12) N1 – 0.1mm (7)									

Note - SR301T:

- (1) Fluorolube Filling Fluid is not available with Monel Diaphragm.
 (2) Supplied Without Gasket.
 (3) The Smar Standardized PN10/40 (With Dimension PN40), however, the DIN Standard Divides It in PN10/16 and PN25/40.

- (4) Also fits the #900 class.
 (5) Only the gasket code available I (Stainless 316).
 (6) The Insulator Kit is applicable with Raised Face (H0) and Flat Face (H1), with Gasket T (Teflon) material and limited only for the models ANSI until #600, DIN until P40 and JIS until 40K; for models with extension the gasket T (Teflon) have special format.
- (7) Item by inquiry.(8) Finishing of the flange faces sealing regions.

 - a Standard: ANSI B 16.5 / MSS-SP6: Raised or Flat Face with grooved lining: 3.2 to 6.3 μm Ra (125 to 250 μ" AA);
 - Face Small or Large Tongue and Small or Large Groove with smooth finishing not exceeding:
 - 3.2 μm Rt (125 μ " AA); b- Standard RTJ ANSI B 16.20 / MSS-SP6:

 - Smooth finishing not exceeding: 1,6 μ m Rt (63 μ " AA); c-Standard DIN EN-1092-1: Grooved Finishing "B1" (PN 10 to PN40): 3.2 to 12.5 μ m Ra (125 to 500 μ " AA); Smooth Finishing "B2" (PN 63 to PN100), "C" (Tongue) and "D" (Groove): 0.8 to 3.2 μ m Ra (125 to 500 μ " AA); (32 to 125 μ " AA). d- Standard Din 2501 (DIN 2526): Smooth Finishing "E" (PN 160 to PN250): Rz = 16 (3.2 μ m Ra (125 μ " AA)).

- e- Standard Jis B2201:
- Groove Finishing: 3.2 to 6.3 μm Ra (125 to 250 μ " AA).
- Whereby: Ra (average ruggedness) and Rt (total ruggedness). (9) Degrease cleaning not available for carbon steel flanges.
- (10) Applicable only for:
 - Diaphragm Thickness of 0.05mm.

 - Diameters/Capillary Length:
 2" ANSI B 16.5, DN 50 DIN, JIS 50 A, for seals up to 3 meters of capillary and level
 - models (by inquiry).
 3" ANSI B 16.5, DN 80 DIN, JIS 80 A, for seals up to 5 meters of capillary and level
 - 4" ANSI B 16.5, DN 100 DIN, JIS 100 A, for seals up to 8 meters of capillary and level mode
 - Faces: RF and FF.
 - Temperature Limits:
 - +10 to 100°C;
 - +101 to 150°C (by inquiry).

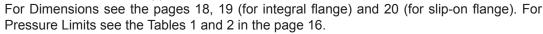
 Not applicable for diaphragm thickness: N1 0.10mm.
- Not applicable for use with housing.
 (11) Not available for Slip-on flange.
- (12) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm.





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 a housing, because the diaphragm coincides with the internal wall of the tank. Bolts and nuts are not supplied with the seal.





MODEL	REMO	OTE S	EAL																			
SR301E	FLA	NGED	REMO	OTE S	EAL WI	TH EX	TENSI	ON														
	COD	E	Proc	ess C	onnect	ion, R	ange a	nd Stai	ndard (3)													
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			CODE	Сар	illary L	ength																
			1 2		0 mm 0 mm		3 4	1500 r 2000 r		5 6		3000 m 4000 m		7 8		0 mm 0 mm		E 9	7000 mm 8000 mm	A B	10000 mm 9000 mm	
j	i	CODE Diaphragm Material																				
				H M	316L S Hastel Monel	loy C2		U	Tantalur Titaniun 316L St	ı	s Stee	el with	Teflon Lini	ng		6L Go	ld Pla	ted Sta	Lining ainless Steel with Halar Lining (Hastelloy with	n Teflon Lining
					CODE	Fil	ling Fl	uid														
					S D F	DC 7	04 – si	licone d licone d MO-10	il			N N	Syltherm 80 Jeobee M2 Glicerin + V	20	5)			K	Fomblim 06/06 Krytox 1506 Halocarbom 4.2			
						CODE	Ext	ension	Length (2	2)												
						1	50 n	nm (2")			2	100	mm (4")			3	150	mm (6	3")	4	200 mm (8")
							CODE	Opti	onal Item	ıs*												
	ļ						ZZ	Spec	al Options	s – Sp	ecify											
				i																		
SR301E -	4	2	3	Н	S	1	/ *															

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

Optional Items

Shield Material	A0 - 304 Stainless Steel A1 - 316 Stainless Steel	A2 - 304 Stainless Steel With PVC Lining A3 - 316 Stainless Steel With PVC Lining	
Material / Flange Type	F0 - 316L Stainless Steel (Integral Flange) F1 - C276 Hastelloy (Integral Flange) F2 - 304L Stainless Steel (Integral Flange) (5)	F3 - Super Duplex (UNS 32750) (Integral Flange) (5) F4 - Duplex (UNS 31803) (Integral Flange) (5) F5 - Coated Carbon Steel (Slip-on Flange)	F6 - 304 Stainless Steel (Slip-on Flange) F7 - 316L Stainless Steel (Slip-on Flange)
Face (6)	H0 - Raised Face (ANSI, DIN, JIS) H1 - Flat Face (ANSI, DIN) H2 - Flat Face With Sealing Channel - RTJ (ANSI B 16.20) H3 - Tongue Type Face (DIN) (5) H4 - Groove Type Face (DIN) (5)	H5 - Small Tongue (ANSI) (5) H6 - Small Groove (ANSI) (5) H7 - Large Tongue (ANSI) (5) H8 - Large Groove (ANSI) (5)	
Extension Material	J0 - 316 Stainless Steel J1 - C276 Hastelloy J2 - 304l Stainless Steel (5)	J3 - Super Duplex (UNS 32750) (5) J4 - Duplex (UNS 31803) (5)	
Insulator Kit (4)	K0 - Without Kit K1 - With Kit		
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service) (7) P5 - Mounting according NACE standard		
Diaphragm Thickness	N0 – Default (10) N1 – 0.1mm (5)		

Note - SR301E: (1) Fluorolube Filling Fluid Is Not Available With Monel Diaphragm. (2) The Smar Standardized PN10/40 (With Dimension PN40), however, the DIN Standard Divides It in PN10/16 and PN25/40. (2) The Smar Standardized PN10/40 (With Dimension PN40), however, the DIN Standard Divides It in PN10/16 and PN25/40. (3) Flanges ANSI# (1500 and 2500), DIN PN (63, 100, 160 and 250) and JIS. Supply by inquiry. (4) The Insulator Kit is applicable with Raised Face (H0) and Flat Face (H1), with Gasket T (Teflon) material and limited only for the models ANSI until #600, DIN until P40 and JIS until 40K; for models with extension the gasket T (Teflon) have special format. (5) Item by inquiry. (6) Finishing of the flange faces sealing regions: a - Standard: ANSI B 16.5 / MSS-SP6: Raised or Flat Face with grooved lining: 3.2 to 6.3 μm Ra (125 to 250 μ" AA); Face Small or Large Tongue and Small or Large Groove with smooth finishing not exceeding: 3.2 μm Rt (125 μ" AA); b - Standard RTJ ANSI B 16.20 / MSS-SP6: Smooth finishing not exceeding: 1,6 μm Rt (63 μ" AA); c - Standard DIN EN-1092-1: Grooved Finishing "B1" (PN 10 to PN40): 3.2 to 12.5 μm Ra (125 to 500 μ" AA); Smooth Finishing "B2" (PN 63 to PN100), "C" (Tongue) and "D" (Groove): 0.8 to 3.2 μm Ra (32 to 125 μ" AA). d - Standard Din 2501 (DIN 2526):

Smooth Finishing "E" (PN 160 to PN250): Rz = 16 (3.2 μ m Ra (125 μ " AA)). Smooth Finishing "E" (PN 160 to PN250): R2 = 16 (3.2 μm Ra e- Standard Jis B2201: Groove Finishing: 3.2 to 6.3 μm Ra (125 to 250 μ" AA). Whereby: Ra (average ruggedness) and Rt (total ruggedness). (7) Degrease cleaning not available for carbon steel flanges. (8) Applicable only for: - Diaphragm Thickness of 0.5 mm.

- Diaphraght Triborless of 0.05mm.

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

3" ANSI B 16.5, DN 100 DIN, JIS 80 A, for seals up to 5 meters of capillary and level models.

4" ANSI 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:

+10 to 100°C; +101 to 150°C (by inquiry). Not applicable for diaphragm thickness: N1 - 0.10mm.

Not available for Slip-on flange.
 (10) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm.



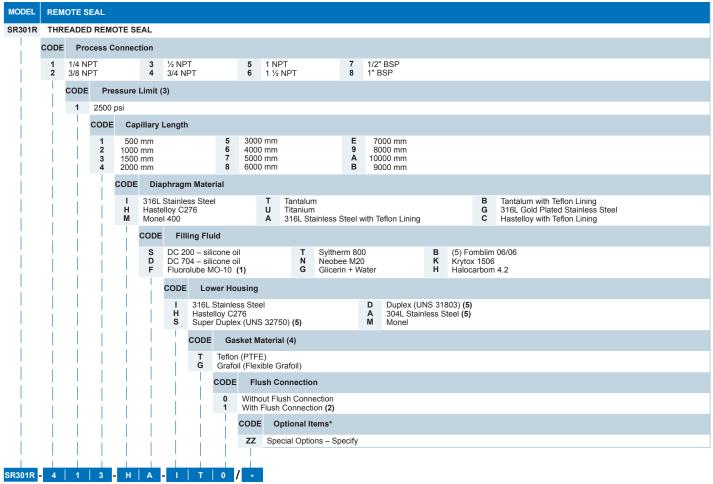


Threaded Remote Seal - SR301R

The SR301R is a threaded connection seal. The diaphragm is welded to the flange. This model is always supplied with 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	A0 - 304 Stainless Steel A1 - 316 Stainless Steel A2 - 304 Stainless Steel With PVC Lining A3 - 316 Stainless Steel With PVC Lining	
Flange Material	F0 - 316 Stainless Steel F1 - C276 Hastelloy F2 - 304L Stainless Steel F3 - Super Duplex (UNS 32750) (5) F4 - Duplex (UNS 31803) (5)	
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° G2 - With Two Flush Connections of 1/4" NPT at 90°	G3 - With Two Connections of 1/2" NPT - 14 NPT at 180° (With Lid) G4 - Without Flush Connection
Special Procedure	P1 - Degrease Cleaning (Oxygen or Chlorine Service) (6)	
Diaphragm Thickness	N0 – Default (7) N1 – 0.1mm (5)	

Note - SR301R:

- (1) Fluorolube Filling Fluid Is Not Available With Monel Diaphragm
- (2) Flush connection not available for process connection 1½" NPT. (3) See Table 4 For Pressure Limits and Temperature
- (4) See Table 7 Gasket Application Guide for Pressure and Temperature Limits
- (6) Degrease cleaning not available for carbon steel flanges.
- (7) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm.





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.





MODEL	REM	OTE S	EAL															
SR301S	SAN	ITARY	REN	IOTE S	SEAL 'S'													
	CO	DE	Pr	ocess	Connec	tion (1)												
	T A A F F D D 6 6 G G I I 8 H 9 U	1 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 1 1	Tri-I	Clamp eaded eaded	DN50 — DN50 — DN50 HF — 1.1/2" - 1.1/2" + 2" - with — 2" - With — 2" - With — 3" - With —	with extended without extended with extended without extended with extended	ension extension extension (extension) (ex	on (4) ension (4) (4) (5) on (5) (4) (5) extension t extension extension t extension e	n (2) (4) ion ion (2) ((4)		V W X S E 7 1 M C 5 2 L B 4 3 K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Threa Threa	ded DN80-DII ded DN80-DI ded SMS-1. ded SMS-2" ded SMS-3" ded SMS-3" ded SMS-3" ded SMS-3" ded RJT-2" ded RJT-2" ded RJT-3" ded IDF-2" ded IDF-2"	N 118 IN 11: 1/2" with - with witho - with witho	351 – with extension (2) (4) 51 – with out extension (2) 48 51 – with out extension (2) (4) without extension (2) (4) without extension (2) (4) out extension (2) (4)	
		i	COE	DE C	apillary	Length												
İ			1 2 3 4	10 15	00 mm 00 mm 00 mm 00 mm				6	3000 mm 4000 mm 5000 mm 6000 mm	l I			9 A B	7000 mm 8000 mm 10000 mm 9000 mm			
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	i	i	 	İ	CODE		Fluid											
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i	i	i				0 T		out O-rii	ng		B	Bun	a N (4)					
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SR301S -	4	1	3	-	A	- T	1	0 /	*									

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

Optional Items

Shield Material	A0 – 304 Stainless Steel A1 – 316 Stainless Steel A2 - 304 Stainless Steel with PVC Lining A3 - 316 Stainless Steel with PVC Lining
Special Procedures	P1 – Degrease Cleaning (Oxygen or Chlorine Service) (7) P3 – Polishing of the wet parts according to 3A Certification (4) (6)
Diaphragm Thickness	N0 – Default N1 – 0.1mm (6)
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.

 (4) Compliant with 3A-7403 standard for food and other

- applications where sanitary connections are required:

 Neobee M2O Filling Fluid

 Wet Face finishing: 0.8 µm Ra (32 µ" AA)

 Wet O-Ring: Viton, Teflon and Buna-N

 (5) HP High Pressure.

- (6) Item by inquiry.
- (7) Degrease cleaning is not available for Carbon Steel Flanges.





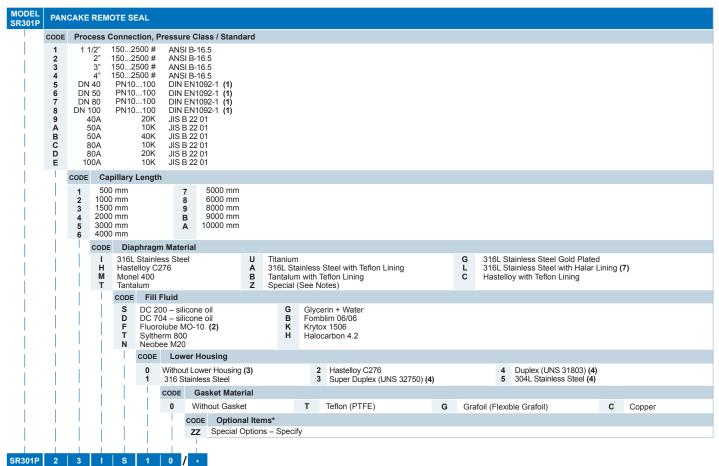
Pancake Remote Seal - SR301P

The SR301P is a seal with welded diaphragm, whose assembly requires blind flanges. This model is supplied with housing and flush connection (optional). The flush connection removes deposits on the diaphragm without disconnecting the seal. The seal diaphragm and the 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 22. For Pressure Limits see the Tables 1, 2 and 3 in the page 16.



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

Optional Items

Shield Material	A0 - 304 Stainless Steel A1 - 316 Stainless Steel	A2 - 304 Stainless Steel with PV6 A3 - 316 Stainless Steel with PV6									
Flange Material	F0 - 316L Stainless Stee F1 - C276Hastelloy	F2 - 304L Stainless Steel (4) F3 - Super Duplex (UNS 32750) (4)	F4 - Duplex (UNS 31803) (4)								
Lower Housing Connection		tion of ¼" NPT (If Supplied with Housing) nnections of ¼" NPT at 180°	G2 - With Two Flush Connections of ½" NPT at 90° G3 - With Two Connections of ½" – 14 NPT at 180° (With Lid)								
Face (6)	H0 - Face (ANSI, DIN, JI	IS) (5)									
Insulator Kit	K0 - Without Kit	K1 - With Kit									
Special Procedure	P1 - Degrease Cleaning	(Oxygen or Chlorine Service)									
Diaphragm Thickness	N0 – Default (8)	N1 - 0.1 mm									
Note - SR301P:											
(1) Meets DIN 2501 PN 10 PN25 counter-flange by solicited press	sure class.		Diaphragm Thickness of 0.05mm. Diameters/Capillary Length:								

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

 (5) This face does not cause interference when mounted with counter-flanges with Flat Face (FF) or Raised Face (RF).
- (6) Finishing of the flange faces sealing regions. a Standard ANSI B 16.5 / MSS-SP6:

 - Face with grooved lining: 3.2 to 6.3 μm Ra (125 to 250 μ " AA); b Standard DIN EN-1092-1:
 - Grooved Finishing (PN 10 to PN100): 3.2 to 12.5 μm Ra (125 to 500 μ " AA);
 - c Standard JIS B2201 Groove Finishing: 3.2 to 6.3 μm Ra (125 to 250 $\mu^{\prime\prime}$ AA).
- Whereby: Ra (average ruggedness) and Rt (total ruggedness). (7) Applicable only for:

- ANSI B 16.5, DN 50 DIN, JIS 50 A, for seals up to 3 meters of capillary and level models
- 3" ANSI B 16.5, DN 80 DIN, JIS 80 A, for seals up to 5 meters of capillary and level models. 4" ANSI B 16.5, DN 100 DIN, JIS 100 A, for seals up to 8 meters of capillary and level
- Faces: RF and FF
- Temperature Limits:
- +10 to 100°C; +101 to 150°C (by inquiry).
- Not applicable for diaphragm thickness: N1 0.10mm.
- Not applicable for use with housing.
 (8) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm.





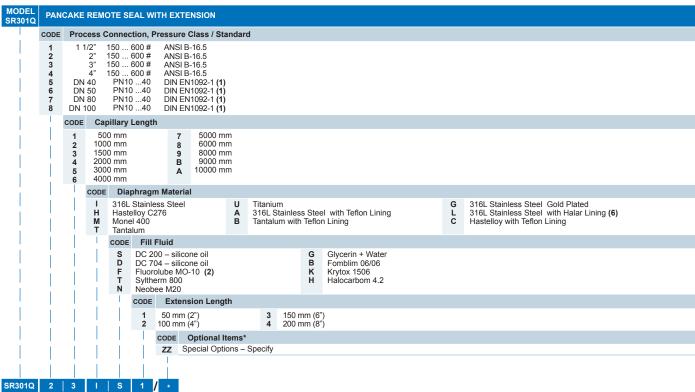
Pancake Remote Seal with Extension - SR301Q

The SR301Q is a seal with welded diaphragm, whose assembly requires blind flanges. The diaphragm is extended from the seal flange and welded to the extension. Different from Model SR301P, it is not supplied with housing, because the diaphragm coincides with the internal wall of the tank.

Bolts, nuts, gaskets 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 22. For Pressure Limits see the Tables 1, 2 and 3 in the page 16.



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

Optional Items

Shield Material	A0 - 304 Stainless Steel A1 - 316 Stainless Steel	A2 - 304 Stainless Steel With PVC Lin A3 - 316 Stainless Steel With PVC Lin	
Flange Material	F0 - 316L Stainless Steel F1 - C276 Hastelloy	F2 - 304L Stainless Steel (3) F3 - Super Duplex (UNS 32750) (3)	F4 - Duplex (UNS 31803) (3)
Face (5)	H0 - Face (ANSI, DIN, JIS) (4)		
Extension Material	J0 - 316 Stainless Steel J1 - C276Hastelloy	J2 - 304L Stainless Steel (3) J3 - Super Duplex (UNS 32750) (3)	J4 - Duplex (UNS 31803) (3)
Insulator Kit	K0 - Without Kit K1 -	- With Kit	
Special Procedure	P1 - Degrease Cleaning (Oxyg	gen or Chlorine Service)	
Diaphragm Thickness	N0 – Default (7) N1	- 0.1 mm	

Note - SR301Q:

- (1) Meets DIN 2501 PN 10... PN40 Standard, however with grooved lining and if mounted with counter-flange by solicited pressure clas
- (2) Fluorolube filling fluid is not available with Monel diaphragm.
- (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 sealing regions:

 - a Standard ANSI B 16.5 / MSS-SP6: Face with grooved lining: 3.2 to 6.3 μ m Ra (125 to 250 μ " AA);
 - b Standard DIN EN-1092-1:
 - Grooved Finishing (PN 10 to PN100): 3.2 to 12.5 μm Ra (125 to 500 μ " AA); c Standard JIS B2201:

 - Groove Finishing: 3.2 to 6.3 μm Ra (125 to 250 μ " AA).
 - Whereby: Ra (average ruggedness) and Rt (total ruggedness).

- (6) Applicable only for
 - Diaphragm Thickness of 0.05mm.

 - 2" ANSI B 16.5, DN 50 DIN, JIS 50 A, for seals up to 3 meters of capillary and level models (by inquiry).
 - 3 "ANSI B 16.5, DN 80 DIN, JIS 80 A, for seals up to 5 meters of capillary and level models. 4" ANSI 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

 - +101 to 150°C (by inquiry).
 Not applicable for diaphragm thickness: N1 0.10mm.
- (7) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm





Level Transmitter - LD300L

The LD300L is a pressure or level transmitter using a high side flange. Its technical specifications and specifications for precision, drift and temperature effect are the same as the LD300L catalogue. The LD300L is a transmitter for industrial applications. The process connections can be supplied with housing when not having an extension.



For Dimensions see the pages 24 (for integral flange) and 25 (for slip-on flange). For Pressure Limits see the Tables 1, 2 and 3 in the page 16.

MODEL	LEV	EL TR	ANSMITTE	RS																
LD301 LD302			™ fieldbus																	
LD303		FIBUS	PA								.,									
	COD.		Range Min.	Limits Máx.	Min. Spa	an	Unit.		Ran	ge Lin	nits ⁄láx.	Mir	n. Span	U	Jnit.					
	L2 L3 L4 L5		-50 -250 -2500 -25000	50 250 2500 25000	1.2 2.0 20.8 208.3	8 3	kPa kPa kPa kPa		-200 -360 -3625	6 0	200 36 360 3625		5 0.3 3 30.2	in ps ps ps	si	wit	ote: The range can th small degradation ust be limited to the	n of accuracy. Th		
		COD.	Diaphrag	m materi	al and Fill F	Fluid (Lo	ow Side)													
		1 2 3 4 5 7		C276 Sil C276 Inc C276 Sil	licone Oil (2 ert Fluorolub licone Oil (1 ert Fluorolub licone Oil (1 licone Oil (2	oe Oil (3) (2) oe Oil (1) (2)		8 9 A D E G	316L Mone 316L Haste	SST el 400 SST elloy C	: 276	Fombli Fombli Inert K Inert K	im Oil im Oil (1 (rytox Oi	í (25) í (1) (25)	` ,	K M P Q R S	Hastelloy C276	Plated Inert Kry Inert Hal Inert Hal	Oil (1) tox Oil ocarbo ocarbo	(2)
					apter and D)rain/Ve	nt Valves	materia	•		CEO	M /A C	TM A2	E4)	246 007	- 0	PEOM (ACTM AGE	1) (Drain A (ant in 11	o o to Il o	, CO76) (4)
			C Plat H Has	telloy C27	rain/Vent in 76 (CW – 12	2MW, AS	STM – A49	4) (1)	M Moi			WI (AS	TM – A3	P P			:F8M (ASTM – A35 :F8M (ASTM – A35			nar) insert (3) (4) (5)
			COE		ed O'Ring N t O'Rings				ne - Pro	onvlen	e K	Kal	rez T	Teflo	n V \	/iton	Note: O'rings an	e not available on t	ne side	s with remote seals.
	İ			COD.	Drain/Ven				.nc - r rc	орукст		itai	ICZ I	TCIIO	•	ritori	i itoto. O migo di	s not available on a	ic olde	o with remote occio.
	į			Α	Without Dra Drain/Vent (Opposit		ss Conn	ection)			Inferio Superi					Orain/Vent operationare not available or			
				C		al Indica out Indic			1	Wi	th Diai	ital ind	icator							
			1 1		COD.		ess Conn	ection (u. Digi		100.01							
			1 !		0		NPT (With								(3) (4) (6)	9 R	Remote Seal (Low V 1/2 14 BSP (With Ad	olume Flange) (3) (7) W	Nithout Connection Absolute Reference)
			+ 1		1	COD.	Electric			1/2 - 1	4 INF I	Axiaiv	WILLIEVE	insen	(3) (4) (0)	1 1	1/2 14 BSF (VVIUTAL	iaptei)	,	Absolute Reference)
	i i		4 1		i L		1/2 – 14 NF		ction					3 1	/2 – 14BSF	⊃ (wit	th 316 SST adapter	for ½ - 14 NPT) (9) в	PG 13.5 DIN (30)
	İ	į	4.1		i i	1 3	8/4 – 14 BS	SP (with 3	16 SST	adapte					/120 x 1.5 (3	30)				User's specification
			+ !			(COD. Ze 1 Wit	ro and s n Zero ar	•	-	tment									
			+ +				COL		cess Co											
							O U V W P Q 9	1" 300 1" 600 1.1/2" 1.1/2" 2" 150	150 # (ANS # (ANS # (ANS 300 # (ANS 600 # (ANS # (ANS	SI B16. SI B16. SI B16. ANSI E ANSI E SI B16.	5) (31) 5) (31) 5) (31) 5) (31) 316.5) 5)))) (22)	1 3 2 3 C 3 A A A A A	3" 150 # 3" 300 # 3" 600 # 4" 150 # 3" 600 # 4" 300 #	(ANSI B1 (ANSI B1 (ANSI B1 (ANSI B1 (ANSI B16 (ANSI B16 (ANSI B16)	6.5) 6.5) 6.5) 6.5) 6.5 R 6.5)	R DN 40 E DN 50 6 DN 80 7 DN 100 K JIS 20k		F T G L	JIS 40A 20K (22) JIS 50A 10K (22) JIS 50A 40K (22) JIS 80A 10K (22) JIS 80A 20K (22) JIS 100A 10K (22) User's specification
	i.				i L		\top	COD.	Mater	rial an	d Flan	ige Ty	pe (Lev	el Tap)						
į	į	į						Z	316L S User's	specifi	cation		4		Hastelloy (ST (Slip-or			316L SST (Slip-o		
						 	1 !		COD.	0 mm		Lengt 2	t h 100 mr	m (4")	4 200) mm	n (8")	Nota: Extension	n Mat	erial 316L SST
						1		-	1 :	50 mm	(2")	3	150 mr	m (6")			specification	Extendit		
						- [(COD.	Dia p 316 SS	_	m (Leve	I Tap) ītanium ((10)			B Tantalum with	Toflor	Lining
										2	Hastell Monel	loy C2 ⁻ 400	76 6 3 7 3	16L SST 16L SST		ed	ning (For 2"and 3")		Steel v	vith Halar Lining (20)
	- !					i					COD.			evel Ta		'				
					1 !			İ			1	DC 2	00 Silico	one Oil		Ţ	Syltherm 800 Oil		В	Fomblim 06/06
									i		3 2		'04 Silico - 10 Fluo	one Oil orolube (N G	Neobee M20 Pro Glicerina + Água	pylene Glycol Oil (5)	4 H	Krytox Oil Halocarbon 4.2
								 	1	i		COD.			ing Materi	ial				
												1	Stainles	Housing s Steel by C276	316	4	Super Duplex (UN Duplex (UNS 3180 Stainless Steel 304	3) (11)	M N	lonel
1	1	1				i							COD.	-	e Materia	ı				
						 					i		0 T	Without Teflon (Gasket		G Grafoil (Fle	xible lead)	1 8	Stainless 316 L
					1			i	ĺ	1		i		ICHOII (· 11'E)		Copper			
					1	1		i	i	i		T T								
LD301	L2	1	I B	U	1 0	0	1 1	2	2	1	1	1	Т		— co	ITNC	INUES NEXT PAG	E		

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





MODEL	LEV	EL TRA	ANSMI	TTER	s (cor	NTINU	ous)																
	COD.	Flang	ges Bo	lts an	d Nuts	s Mate	rial																
	A0 A1	Plate 316 S		on Ste	eel (De	efault) (21)					Steel (A by C276	ASTM A	193 B7	⁷ M) (1) ((21)							
i	1	COD.	Flan	ge thr	ead fo	r fixin	g acces	ssories	(adapte	rs, ma	nifolds,	mount	ing bra	ckets,	etc)								
		D0	7/16"	UNF	(Defau	ult)			D1 1	И10 X 1	1.5 Thre	ad				D2	M12 X	1.75					
		- !	COD.	Flai	nge Fa	acing F	inish (18)															
			Q0 Q1 Q2	Flat	Face -	- FF	RTJ (C		ilable fo	r ANSI :	standar	d flange	e) (17)		Q3 Q4		gue Face loved Fa						
i	- 1	- 1	1	COD.	Out	put Si	gnal																
		i		G0	4 – 2	0 mA (Default))		G1 () – 20 m	nA (4 wir	re) (13)			G3	NAMU	IR NE43	3 Exte	nded 4-	20 m/	A (Burnout 3.55 and	22.8 mA)
!		-		- !	COD.	Hou	ısing M	aterial	(27) (28))													
			İ		H0 H1			efault) (I F8M (AS	P/Type) TM – A	351) (IP	/Type)						here (23) ere (23)) H4	Alur	minum Copper Free	(23) (IPW/TypeX)
		- !				COD.	Tag	Plate															
			i			J0	With	tag, wh	en speci	fied (De	efault)			J1	Blank			J	12	Accordir	ng to ι	user's notes	
	i.		i						Configu														
i	- 1	i.		i	i		MO		PID (Def				M1	With	out PID								
1		- 1			1		- 1	COD.		Indica						Y3	L CD4:	Tompo	roturo	(Engine	ooring	ı I Init)	
								Y0 Y1 Y2	LCD1:	Currer	ntage (E nt – I (m ure (Enç		g Unit)			YÜ				user no			
i	-	i i		i	i.		i.		COD.	LCD	2 Indica	ation											
									Y0 Y4 Y5	LCD2	: Currer	ntage (Ent - I (m/		ı I Init\			Y6 YU					ineering Unit) notes (14)	
i	i.	i		i			i i		1	COD.		tificatio		, Ornic)									
İ		i		i	i		i		- [I1 I2	FM: XP	, IS, NI, D: Ex-d,	DI Ex-ia	15	CEPE	EL: Ex	T): Ex-ia -d, Ex-ia		O: Ex	c-d	18	EXAM (DMT): Clas 0 a 20 mA: LD301	(13)
	- 1		i			i.		i i		13		P, IS, N		16	Witho	out Ce	rtification	1			IM	BDSR - GOST: Ex-	d, Ex-ia
i	i	i		i	i.		i.				COD.	Paint	•					-	1400				
							i		i		P0 P3 P4	Black White	Munsell Polyeste Epoxy	er	olyeste	ers		P8 P9 PC	Saf		Epox	xy – Electrostatic Pa s – Electrostatic Pai	
											P5	Yellow	Polyest	er									
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LD301	A0	D0	F0	G0	НО	Jo	MO	Y0	Y0	16	P0	*				TY	PICAL MO	DDEL NU	MBER				

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

Optional Items

Burn-out	BD - Down Scale (Acc	cordance to NAMUR NE43 specification)	BU - Up Scale (Accordance to NA	AMUR NE43 specification)									
Special Procedures	C1 - Degrease Cleani	ng (Oxygen or Chlorine Service) (15)	C2 – For Vacuum Application C5 - Mounting according NACE standard										
Special Features	ZZ – User's Specificat	Z – User's Specification.											
Lower Housing Connection	U0 - With Flush Conne U2 - With Two Flush C	ection of 1/4" NPT (If supplied with housing) connections of 1/4" NPT at 90°	U1 - With Two Flush Connection U3 - With Two Connections of	U4 - Without Flush Connection									
Insulator Kit	K0 – Without Kit	K1 – With Kit											
Diaphragm Thickness (16)	N0 - Default (24)	N1 - 0.1mm (11)											
Note - LD300L:													
(4) 14 1 14 05 145 04 75 110	0.45450												

- (1) Meets NACE MR 01 75/ISO 15156 recommendations.
 (2) Silicone oil not recommended for Oxygen (O2) or Chlorine Service.

- (2) Silicone oil not recommended for oxygen (O2) of Chlorine Service.
 (3) Not applicable for vacuum service.
 (4) Drain/Vent is not applicable.
 (5) O-ring material must be of Viton or Kalrez.
 (6) Maximum pressure 24 bar.
 (7) For remote seal is only available flange in 316 stainless steel—CF8M (ASTM A351) (thread M12).
 (9) Structure file fluid not available with Monel diaphragm.
- (8) Fluorolube fills fluid not available with Monel diaphragm.
 (9) Options not certified for Explosive Atmosphere.
 (10) Not recommended with extension.

- (10) Not recommended with extension.
 (11) Item by inquiry.
 (12) Supplied without Gasket.
 (13) Without certification for Explosion proof certification or Intrinsically safe.
 (14) Limited values to 4 1/2 digits; limited unit to 5 characters.
 (15) Degreaser's cleaning is not available for carbon steel flanges.
 (16) The insulator kit is applicable with Raised Face (HO) and Smooth Face (H1) with Gasket material.
 - material. T(Teflon) and only for the following models: ANSI until #600 , DIN until P40 and JIS until 40K;
- 4UK;
 For models with extension the Gasket T (Teflon) it has special share.

 (17) Gasket for housing, available only in Stainless 316.

 (18) Finishing flange faces:
 ANSI B 16.5 / MSS-SP6:

 Point of Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secre
- - ANSI B 16.5 / MSS-SP6:

 Raised or Smoth Face with gooved lining: 3.2 to 6.3 µm Ra (125 a 250 µ" AA);

 Small or Large Tongue Face and Small or Large Groove with smooth finishing not exceeding:
 3.2 µm Rt (125 µ" AA);

 RTJ ANSI B 16.20 / MSS-SP6:

 Smooth finishing not exceeding: 1.6 µm Rt (63 µ" AA);

 DIN EN-1092-1:

 Created Finishing: 78.1" (DN 40 a DN40): 3.2 a 13.5 µm Re (415 a 500 µ" AA);

 - LIN EN-1092-1:
 Grooved finishing "B1" (PN 10 a PN40): 3.2 a 12.5 μm Ra (125 a 500 μ" AA);
 Smooth finishing "B2" (PN 63 a PN100), "C" (Tongue) e "D" (Groove): 0.8 a 3.2 μm Ra (32 a 125 μ" AA).
 Din 2501 (DIN 2526):
 Smooth finishing "E" (PN 160 a PN250): Rz = 16 (3.2 μm Ra (125 μ" AA).

- Standard Jis B2201
 Grooved finishing 3.2 a 6.3 μm Ra (125 a 250 μ" AA).

 (19) Temperature application range:
 -40 to 150°C.

 (20) Applicable only for:
 Diaphragm Thickness of 0.05mm.
 Diameters/Capillary Length:
 2" ΑΝSI B 16.5, DN 50 DIÑ, JIS 50 A, for seals up to 3 meters of capillary and level models
- (by inquiry).

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

 4" ANSI B 16.5, DN 100 DIN, JIS 100 A, for seals up to 5 meters of capillary and level models.

 4" ANSI 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:

 +10 to 100°C;
- +101 to 150°C (by inquiry).

 Not applicable for diaphragm thickness: N1 0.10mm.

 Not applicable for use with housing.

- Not applicable for use with housing.
 (21) Not applicable for saline atmosphere.
 (22) Not available for Silp-on flange.
 (23) IPW / TypeX tested for 200 hours according to NBR 8094 / ASTM B 117 standard.
 (24) Diaphragms of Titanium and Monel available only in 0.1 mm, and diaphragms of Tantalum only in 0.075 mm.
 (25) The inert fluid guarantees safety for Oxygen (O2) service.
 (26) Certificate for use in explosive atmosphere (CEPEL and CSA).
 (27) IPX8 tested in 10 meters of water column for 24 hours.
 (28) Ingress Protection:

Product	CEPEL	NEMKO / EXAM	FM	CSA	NEPSI
LD30X	IP66/68/W	IP66/68/W	Type 4X/6P	Type 4X	IP67

- (29) Certified for use in explosive atmosphere (CEPEL, FM, CSA, NEPSI, NEMKO and EXAM).
 (30) Certified for use in explosive atmosphere (CEPEL, NEPSI, NEMKO and EXAM).
 (31) Not available for Integral flange.





Sanitary Transmitter – LD300S

The LD300S is a transmitter for food and other applications, where sanitary connections are necessary. The process connections can be Threaded or Tri-Clamp, allowing a fast and easy connection and disconnection from the process. The standard of lining of the wet surface is 32 Ra, highly polished, so that the seal is free of the breach not allowing the lodging of the food or bacterium that can infect the process.

The Smar's sanitary equipment (LD300S and SR301S) can be supplied according to 3A standard, the sanitary pattern widely accepted in the food industry, beverage and pharmaceutical industries. For Dimensions see the pages 26, 27 and 30. For Pressure Limits see the Tables 5 and 6 in the page 16.

MODEL	SAN	TARY	TRAN	SMITT	ERS																			
LD301 LD302	HAR Foun		™ field	lbus																				
LD303	PRO COD.	FIBUS		Range			Min	Span		Unit.					Limits	Min. Spar		Jnit.						
	S2		ı	Viin. -50	Má	x. 50	IVIIII.	1.25		kPa			Mir -2		Máx. 200	5		nH2O						
	S3 S4 S5			-250 -2500 -2500	2	50 500	2	2.08 20.83 08.30		kPa kPa kPa kPa			-	36 60	36 360 3625	0.3 3 30.2	p p	isi isi isi	URL		degradat	ion of a	ed up to 0.75 LRL and ccuracy. The upper ra nnection.	
		COD.	Diap										-30	23	3023	30.2	þ	151						
		1 2 3 4 5 7	316L 3 316L 3 Haste	SST SST Iloy C2 Iloy C2 I 400	: 176 : 176 :	Silicon nert Fl Silicon	e Oil (2 luorolu e Oil (2 luorolu e Oil (2	2) ibe Oil 1) (2) ibe Oil 1) (2)	(3) (19 (1) (3))	8 9 A D E	3 M 3 3 H	antalun 16L SS lonel 40 16L SS astellog antalun	T 00 T y C27	Fomi Fomi Inert '6 Inert	Fluorolube O blim Oil blim Oil (1) Krytox Oil (19 Krytox Oil (1) Krytox Oil (19) (19)	B) K M P Q R S	Moi Moi 316 Has	nel 400 nel 400 Go nel 400 Go L SST stelloy C27 talum	ld Plated	Silico Inert I Inert I	Krytox Oil (1) (19) ne Oil (1) (2) Krytox Oil (1) (19) Halocarbon 4.2 Oil (19 Halocarbon 4.2 Oil (1) Halocarbon 4.2 Oil (19	(19)
		1	COD.							alve(s)) Mate	erial (Low S	ide)										
			C H I	Haste	lloy C	276 (C	W-12			17) 4494) ((1)			M N P	316 S	400 (1) ST – CF8M (<i>F</i> ST – CF8M (<i>F</i>						sert (3) (4) (5)	
- 1		i.	Ţ	COD.	Wet	ted O-	Ring	Materi	al (Lov	v Side))													
		1		0 B	Witho	ut O-F	Ring				Ethyl Kalre		Propyl	ene		T Tet V Vite					-Rings ar		vailable on the	
		- !			COD.		in Pos	sition (Low S		rvaire	52				V VIII	JII			Sides W	ilii remole	scai.		
					0 A		out Dra (Opp		proce	ss con	nectic	on)		D U	Bottor Top	n	Note: Drain	For bette valve are	er drair not a	n operation vailable on	, drain va the sides	lves are with re	e strongly recommende mote seal	ed.
	- !					COD.			icator				4 \	A /: 41- 1	D: -:+-1 !	:4								
						0	COD	out Ind		Conne	ction				Digital Inc	icator								
							0			T (With		•			Remote S	eal (With Plu	a – Vac	uum Asse	mblv)	(7) 9	Remote	Seal (Low Volume Flange) (3	3) (7)
İ			i.			i	1	1/2 -	14 NF	T (With	n Ada _l	pter)	′			PT Axial with							(ith Adapter)	-, (,
i	i		i	i.			i	COI		ectrica			ion										B DO 40 5 DIN (84)	
		į			į			0 1 2	3/4		PT (W	íth 31				? - 14 NPT) (2 ? - 14 NPT) (9	0)	for 1/2 - 14 for 1/2 - M20 X	- 14 N		SST adap		B PG 13.5 DIN (24) Z User's Specificatio	n
								i		D. Ze			-											
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i	i.		i	i				!	ĺ	8						with ext. / 316	N SST	(10) (11)	7	Threaden	SMS 2" .	with a	xt. / 316L SST (10) (11	1)
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LD301	S2	1	1	В	U	1	0	0	1	Α			s	Т	1	2 *				TYPICA	L MODEL N	IUMBER		

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





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- 1	CC	D.					acces	sories	(adapte		nifolds,		ting br	ackets	etc)							
	D	0	7/16"	UNF (Defaul	t)			D1	M10	X 1.5 T	hread				D2	M12	X 1.75				
		(COD.		out Sig																	
			G0 G1			Default 4 wire)					G3 N	IAMUF	R NE43	Extend	led 4-20	mA (Bur	nout 3	.55 and 22.8	mA)			
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									12 13		KO: Ex-d XP, IS, I		a	15 16	CEPEL Withou					18	0 to 20 mA: LD301 (1	3)
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								j		P0 P3 P4	Gray N Black White	Polyes	ster	Polyes	ter		P8 P9 PC	Without Pa Safety Blue Safety Poly	e Epoxy	y – Elec	ctrostatic Painting	
										P5	Yellow								,			
							- [1												
A	1 -	0	G0	НО	JO	MO	Y0	Y0	16	P0							EL NUME					

Optional Itens

Burn-out	BD – Down Scale (Accordance to NAMUR NE43 specification) BU – Up Scale (Accordance to NAMUR NE43 specification)
Special Procedures	C1 – Degrease Cleaning (Oxygen or Chlorine Service) (15) C2 – For Vacuum Application C4 – Polishing of the wet parts according to 3A Certification (11)(12) C5 – Mounting according NACE standard
Special Features	ZZ – User's Specification
Diaphragm Thickness	N0 – Default N1 – 0.1mm (12)

Note - LD300S:

(1) Meets NACE MR-01-75/ISO 15156 recommendations.
(2) Silicone oil not recommended for Oxygen (O2) or Chlorine Service.

* Leave it blank when there are not optional items

- (2) Silicone oil not recommended for Oxygen (O2) or Chlorine Service.
 (3) Not applicable for vacuum service.
 (4) Drain not applicable.
 (5) O-Ring material must be of Viton or Kalrez.
 (6) Maximum pressure 24 bar.
 (7) For remote seal is only available flange in 316 Stainless Steel CF8M (ASTM A351) (thread M12).
 (8) HP High Pressure.
 (9) Options not certified for Explosive Atmosphere.
 (10) Not available for Tri-clamp.
 (11) Compliant with 3A-7403 standard for food and other applications where sanitary connections are requered:
 Neobee M2O Fill Fluid

 - Neobee M2O Fill Fluid Wet Face finishing: 0,8 μm Ra (32 μ" AA) Wet O-Ring: Viton, Buna-N and Teflon
- (12) Item by inquiry.(13) Without certification for explosion proof or intrinsically safe.

- (14) Limited values to 4 1/2 digits; limited unit to 5 characters.(15) Degrease cleaning is not available for Carbon Steel Flanges.
- (15) Degrease cleaning is not available for Carbon Steel Flanges.
 (16) Temperature application range: -40 to 140 °C and Tables 5 and 6 from the following page.
 (17) Not applicable for saline atmosphere.
 (18) IPW / TypeX tested for 200 hours according to NBR 8094 / ASTM B 117 standard.
 (19) The inert fluid guarantees safety for Oxygen (O2) service.
 (20) Certificate for use in explosive atmosphere (CEPEL and CSA).
 (21) IPX8 tested in 10 meters of water column for 24 hours.

- (22) Ingress Protection:

Product	CEPEL	NEMKO / EXAM	FM	CSA	NEPSI
LD30X	IP66/68/W	IP66/68/W	Type 4X/6P	Type 4X	IP67

- (23) Certified for use in explosive atmosphere (CEPEL, FM, CSA, NEPSI, NEMKO and EXAM). (24) Certified for use in explosive atmosphere (CEPEL, NEPSI, NEMKO and EXAM).







The calibration maximum limit of the remote seal or level transmitter should be the smallest value between the connection pressure limit (Tables 1 to 6) and the upper range limit of the transmitter (URL). See transmitter's manual.

Temperature Class °C (°F)		50 (122)	100 (212)	150 (302)	200 (392)	250 (482)	300 (572)	325 (617)	350 (662)
150	15.9	15.3	13.3	12.0	11.2	10.5	10.0	9.3	8.4
300	41.4	40.0	34.8	31.4	29.2	27.5	26.1	25.5	25.1
600	82.7	80.0	69.6	62.8	58.3	54.9	52.1	51.0	50.1
900	124.1	120.1	104.4	94.2	87.5	82.4	78.2	76.4	75.2
1500	206.8	200.1	173.9	157.0	145.8	137.3	130.3	127.4	125.4
2500	344.7	333.5	289.9	261.6	243.0	228.9	217.2	212.3	208.9

Table 1 - Pressure Limit (Bar) - ANSI (ASME B 16.5 - 2003)

Temperature °C (°F)	-10 a 50 (14 a 122)	50 (122)	100 (212)	150 (302)	200 (392)	250 (482)	300 (572)	350 (662)
10	7.6	7.4	6.3	5.7	5.3	4.9	4.6	4.4
16	12.3	11.8	10.2	9.2	8.5	7.9	7.4	7.1
25	19.2	18.5	16.0	14.5	13.3	12.4	11.7	11.1
40	30.6	29.6	25.5	23.1	21.2	19.8	18.7	17.8
63	48.3	46.6	40.2	36.4	33.5	31.1	29.5	28.1
100	76.6	74.0	63.9	57.8	53.1	49.4	46.8	44.5

Table 2 - Pressure Limit (Bar) - DIN (EN1092-1 / DIN 2501)

120 (248)	220 (428)	300 (572)	350 (662)
14.0	12.0	10.0	
34.0	31.0	29.0	26.0
68.0	62.0	57.0	52.0
	(248) 14.0 34.0	(248) (428) 14.0 12.0 34.0 31.0	(248) (428) (572) 14.0 12.0 10.0 34.0 31.0 29.0

Table 3 - Pressure Limit (Kgf/cm2) - JIS B 2201

Temperature °C (°F)	25 (77)
2500 psi	172

Table 4 - Pressure Limit (Bar) - SR301 R

Note: Tables 1, 2, 3 e 4

- The Tables 1,2 and 3 are based on the Norm and are subject to modifications. For more details consult the corresponding Norms;
 The DIN EN1092-1 norm does not assist pressure limits for PN 160 and 250;
 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;
- Tables 1, 2 and 4 for 316L e 304L. Stainless Steel.

DN	Normal	Pressure	High Pre	ssure (HP)
DIN	20°C (68°F)	120°C (248°F)	20°C (68°F)	120°C (248°F)
1.1/2"	34	20	100	60
2"/DN50	28	17	70	42
3"	22	13	70	42

Table 5 - Pressure Limit Tri-Clamp (TC) (Bar)

DN	RJT	IDF	SMS	DIN
DN	120°C (248°F)	120°C (248°F)	120°C (248°F)	140°C (284°F)
DN25	10	16	40	40
1.1/2" / DN40	10	16	40	40
2" / DN50	10	16	25	25
3" / DN80	10	10	25	25

Table 6 - Pressure Limit for Thread (Bar)

Notes: Tabelas 5 e 6
This Tables are based on the Norm and are
subject to modifications. For more details
consult the Norm:
- Tri-Clamp (TC) - BS 4825 : Part 3; ISO 2852;
- RJT - BS 4825 : Part 5 ;

- IDF - BS 4825 : Part 4; ISO 2853;

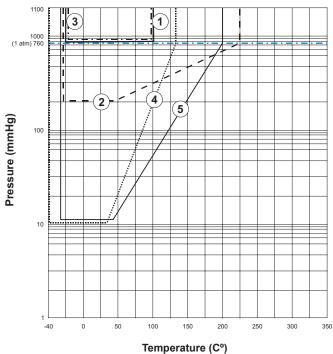
- SMS – 1145; - DIN - 11851(Standard OD).

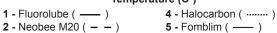
Fluid	Limit of °C Temperature (°F) to Pabs < 1 atm (Vacuum) (3)	Limit of °C Temperature (°F) to Pabs > 1 atm	Viscosity (cSt) at 25°C	Density (g/ cm3) at 25°C	Volumetric Expansion Coefficient 1/°C (1/°F)	Types of Application
Sillicone DC200	-40 to 100 (-40 to 212) (3)	-40 to 170 (-40 to 338)	20	0.950	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) Prop	oylene Glycol Diester of Oc	tanoato / Decanoato; (2) N.A. – Nonapp	olicable; (3) Co	onsult graphs in the Figure	es 1 and 2 when the vacuum pressure is known

Table 7 - Filling Fluid Characteristics



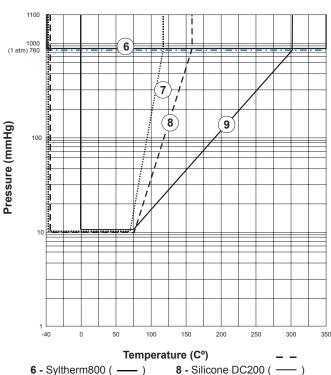






2 - Neobee M20 (- -) 3 - Glycerin + H₂O (- -)

Pressure x Temperature Curve (1)



-) 7 - Krytox (......) 9 - Silicone DC704 (

Ring Resistance to Temperature in Application - Recommended Use and Specification Material **Continuous Service** Maximum Temperature °C (°F) Temperature °C (°F) Recommended Not Recommended Teflon® General Applications, Excellent To avoid solvents and (PTFE) -23 (-10) 232 (450) resistance to acids, bases, water aromatic fuels. and amines Products of Petroleum, Silicone Fluids, Amines, Cetone, Hot Water/Vapor Viton -29 (-20) 205 (400) Diester Fluids. Brake Fluids General Applications, Products of Acids, Brake Fluids, Buna N -35 (-31) 135 (275) Petroleum, Silicone Fluids. Ozone, Cetones. Fluids to Ethylene Glycol

Table 8 - O'Ring Application Guide

Gasket N	f aterial	Factor (P.T) (Bar x °C) (5)	Ambient	Minimum Temperature °C (°F) (8)	Maximum Temperature °C (°F) (8)	Maximum Pressure (Bar absolute) (6)	Ph	Hardness (HB)
	Teflon (PTFE)	2700	_	-210 (-346)	260 (500)	83	0 to 14	_
No Metallic			Neutro	-240 (-400)	3000 (5432)	20		
NO METAILIC	Flexible	12000	Oxidante	-240 (-400)	450 (842)	(1)	0 to 14	_
	Graphite		Vapor	240 (-400)	650 (1202)			
Metallic	Copper	Upper 25000			260 (500)	(2)	_	80
Wetailic	316L Stainless Steel	25000	_	_	815 (1499)	(2)	-	160

Table 10 - (Note 3, 4 and 7) - Application Guide of Sealing Gasket

Not	es:	Table	10

- (1) Value for gasket without metallic reinforcement.
 (2) According to pressure class referring to Norm (ANSI, DIN and JIS).
 (3) This table does not gasket specification, only indicative guide for application.

- (4) The corrosion analysis is very important for sealing gasket application.
 (5) Factor (P.T) = Pressure (Bar abs.) x Temperature (°C).
 (6) Maximum Pressure Use Continuous.
 (7) For projects of gasket other factors must be considered as the gasket and screw squeezing. (8) For maximum and minimum temperatures verify the Limits for Seal/Level filling fluids.

Pressure x Temperature Curve (2)

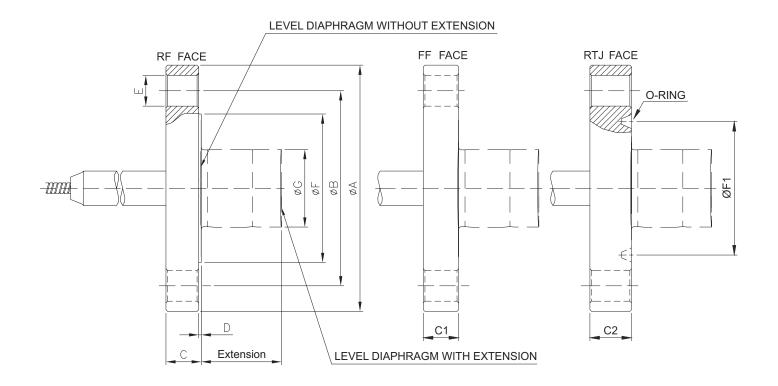
Ambient	Teflon® (PTFE)	Viton	Buna N
Acetic Acid, 30%	S.I.	++	+++
Acetone	-		_
Air, below 93 °C (200° F)	++++	++++	++++
Ammonia Gas, Cold	++++	-	++++
Ammonia Gas, Hot	+++	-	-
Ammonia, Liquid	++	-	+++
Carbon Dioxide, Dry	++++	+++	++++
Carbon Dioxide, Wet	++++	+++	++++
Carbon Monoxide	++++	++++	++++
Caustic 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 9 - 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)







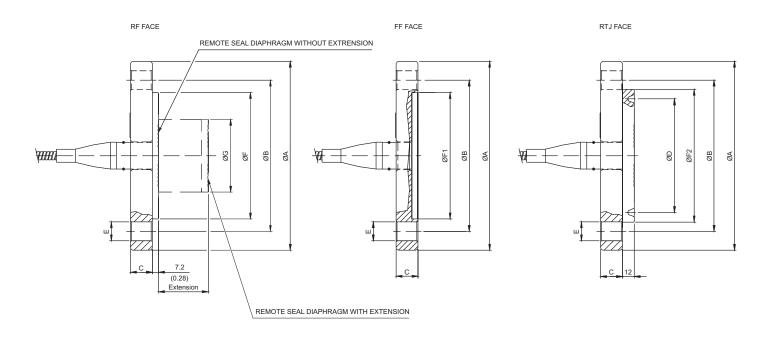
DIMENSIONS IN mm (in) EXTENSION LENGTH: 0 , 50 , 100 , 150 OR 200 $\,^*$ FLANGES 1500 AND 2500 WITH EXTENSION HAVE SUPPLYING UNDER CONSULT

										ANSI	-B 16.5	5 DIM	ENSIO	NS									
DN	CLASS	Α	\	-	В	-	0	C1	(FF)	C2 (RTJ)	[)		E	F	:	F1 (F	RTJ)	ANEL RTJ		G	# HOLES
	150	108	(4.25)	79.2	(3.12)	20	(0.78)	15	(0.59)	21	(0.83)	1.6	(0.06)	16	(0.63)	50.8	(2)	47.6	(1.87)	R15			4
	300	123.9	(4.88)	88.9	(3.50)	20	(0.78)	18	(0.71)	24.4	(0.96)	1.6	(0.06)	19	(0.75)	50.8	(2)	50.8	(2)	R16			4
1"	600	123.9	(4.88)	88.9	(3.50)	24.4	(0.96)	24.4	(0.96)	24.4	(0.96)	6.4	(0.25)	19	(0.75)	50.8	(2)	50.8	(2)	R16	,		4
	1500	149.3	(5.88)	101.6	(4)	35.4	(1.39)		$\overline{}$	35.4	(1.39)	6.4	(0.25)	25	(0.98)	50.8	(2)	50.8	(2)	R16			4
	2500	158	(6.22)	108	(4.25)	42	(1.65)			42	(1.65)	6.4	(0.25)	25	(0.98)	50.8	(2)	60.3	(2.37)	R18			4
	150	127	(5)	98.6	(3.88)	20	(0.78)	19	(0.75)	24.4	(0.96)	1.6	(0.06)	16	(0.63)	73.2	(2.88)	65.1	(2.56)	R19	40	(1.57)	4
	300	155.4	(6.12)	114.3	(4.5)	21	(0.83)	21	(0.83)	27.4	(1.07)	1.6	(0.06)	22	(0.87)	73.2	(2.88)	68.3	(2.68)	R20	40	(1.57)	4
1.1/2"	600	155.4	(6.12)	114.3	(4.5)	29.3	(1.15)	29.3	(1.15)	29.3	(1.15)	6.4	(0.25)	22	(0.87)	73.2	(2.88)	68.3	(2.68)	R20	40	(1.57)	4
	1500	177.8	(7)	124	(4.88)	38.6	(1.52)			38.6	(1.52)	6.4	(0.25)	28	(1.10)	73.2	(2.88)	68.3	(2.68)	R20		(1.57)	4
	2500	203.2	(8)	146	(5.75)		(2.03)			52.9	(2.08)	6.4	(0.25)	32	(1.26)	73.2	(2.88)	82,6	(3.25)	R23		(1.57)	4
	150	152.4	(6)	120.7		22	(0.87)	20	(0.78)	25.9	(1.02)	1.6	(0.06)	19	(0.75)	91.9	(3.62)		(3.25)	R22	48	(1.89)	4
	300	165.1	(6.5)	127	(5)	22.8	(0.9)	22.8	(0.9)	30.8	(1.21)	1.6	(0.06)	19	(0.75)	91.9	(3.62)	82.6	(3.25)	R23	48	(1.89)	8
2"	600	165.1	(6.5)	127	(5)		(1.27)		(1.27)	32.3	(1.27)	6.4	(0.25)	19	(0.75)	91.9	(3.62)	82.6	(3.25)	R23	48	(1.89)	8
-	1500	215.9		165	(6.50)	45	(1.77)	02.0		46.5	(1.83)	6.4	(0.25)	25	(0.98)	91.9	(3.62)		(3.75)	R24		(1.89)	8
	2500	235	(9.25)	171.5			(2.27)	/		59.2	(2.33)	6.4	(0.25)	28	(1.10)	91.9	(3.62)		(4)	R26		(1.89)	8
_		190.5	(7.5)	152.4	(6)	24.4	(0.96)	24.4	(0.96)	30.7	(1.21)	1.6	(0.06)	19	(0.75)	127		114.3	(4.5)	R29	73	(2.87)	4
3"	150	209.5		168.1			(1.14)		(1.14)	36.9	(1.45)		(0.06)		(0.87)		(5)		(4.87)	R31		(2.87)	
'	300	209.5				29	(1.52)	29	(1.52)	40.2	(1.58)	1.6	(0.25)	22	(0.87)	127	(5)		(4.87)		73	(2.87)	8
-	600			168.1			(0.96)	38.7	(0.96)	30.7	(1.21)	6.4	(0.06)	22	(0.75)	127			(5.87)	R31 R36	73	(3.78)	8
	150	228.6	(9)	190.5	(7.87)	24.4	(1.27)	24.4				1.6		19	(0.73)	158					96	(3.78)	8
4"	300	254		200					(1.27)	40.2	(1.58)	1.6	(0.06)	22		158	, ,		(5.87)	R37	96		8
	600	273	(10.75)	215.9	(8.5)	45	(1.77)	45	(1.77)		(1.83)	6.4	(0.25)	25	(1)	158	(6.22)	149.2	(5.87)	R37	96	(3.78)	8
DNI	DN							0.1		N 109.	2-1 / D							<u> </u>					#.uo. =o
DN	PN	A	(4.52)	В			(0.79)	C1	` '						(0.55)	F					-	3	# HOLES
	10/40		(4.53)		(3.35)		(0.78)	20	(0.78)		/		(0.08)		(0.55)	68	(2.67)			/			4
25	63/100		(5.51)		(3.94)	24	(0.95)				//	2	(0.08)	18	(0.71)	68	(2.67)			/			4
	160		(5.51)		(3.94)	24	(0.95)					2	(0.08)	18	(0.71)	68	(2.67)						4
	250		(5.91)		(4.13)	28	(1.10)		(0.70)		/		(0.08)	22	(0.87)	68	(2.67)			/		(4.57)	4
	10/40		(5.91)		(4.33)	20	(0.78)	20	(0.78)		/		(0.12)	18	(0.71)	88	(3.46)			/	40	(1.57)	4
40	63/100		(6.69)		(4.92)	26	(1.02)						(0.12)	22	(0.87)	88	(3.46)					(1.57)	4
	160		(6.69)		(4.92)		(1.10)						(0.12)	22	(0.87)	88	(3.46)					(1.57)	4
	250		(7.28)		(5.31)	34	(1.34)		(0.00)				(0.12)	26	(1.02)	88	(3.46)					(1.57)	4
	10/40		(6.50)		(4.92)	20	(0.78)	22	(0.86)		/	3	(0.12)	18	(0.71)	102	(4.01)			/	48	(1.89)	4
50	63		(7.09)	-	(5.31)	26	(1.02)				/		(0.12)	22	(0.87)	102	(4.01)		/	/	48	(1.89)	4
	100	195	(7.68)		(5.71)	28	(1.12)			/		3	(0.12)	26	(1.02)	102	(4.01)		/		48	(1.89)	4
	160	195	(7.68)	145	(5.71)	30	(1.18)			/		3	(0.12)	26	(1.02)	102	(4.01)		/			(1.89)	4
	250	200	(7.87)	150	(5.91)	38	(1.50)			/		3	(0.12)	26	(1.02)	102	(4.01)		/		48 *	(1.89)	8
	10/40	200	(7.87)	160	(6.3)	24	(0.95)	24	(0.95)	/		3	(0.12)	18	(0.71)	138	(5.43)		/		73	(2.87)	8
80	63	215	(8.46)		(6.69)	28	(1.12)			/		3	(0.12)	22	(0.87)	138	(5.43)	/	/		73	(2.87)	8
	100		(9.06)		(7.09)	32	(1.26)	/		/			(0.12)		(1.02)		(5.43)	/				(2.87)	8
	160	230	(9.06)	180	(7.09)	36	(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)] /			96	(3.78)	8
	25/40	235	(9.25)	190	(7.5)	24	(0.95)			/		3	(0.12)	22	(0.87)	162	(6.38)	<u>/</u>			96	(3.78)	8
										JI:	S B 22	02 DII	MENSI	ONS									
	CLASS	А		В		())		E	F						G	# HOLES
40A	20K	140	(5.5)	105	(4.13)	26	(1.02)					2	(80.0)	19	(0.75)	81	(3.2)				40	(1.57)	4
E0.4	10K	155	(6.1)	120	(4.72)	26	(1.02)			/	/	2	(80.0)	19	(0.75)	96	(3.78)				48	(1.89)	4
50A	40K	165	(6.5)	130	(5.12)	26	(1.02)					2	(80.0)	19	(0.75)	105	(4.13)	1			48	(1.89)	8
	10K	185	(7.28)	150	(5.9)	26	(1.02)					2	(80.0)	19	(0.75)	126	(4.96)	1		/	73	(2.87)	8
80A	20K	200	(7.87)	160	(6.3)	26	(1.02)	/				2	(80.0)	19	(0.75)	132	(5.2)	/			73	(2.87)	8
100A	10K	210	(8.27)	175	(6.89)	26	(1.02)					2	(80.0)	19	(0.75)	151	(5.95)				96	(3.78)	8





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



							Α	NSI-B	16.5 E	DIME	NSIONS	S													
DN	CLASS	,	4	Е	3		С	ı)		E	F (F	F (RF)		FF)	F2 (RTJ)		G	# HOLES						
1"	150	108	(4.25)	79.4	(3.16)	14.3	(0.56)		-		-		-		-		(0.63)	50.8	(2)	50.8	(2)	-		-	4
'	300/600	124	(4.88)	8.9	(3.5)	17.5	(0.69)		-	19	(0.75)	50.8	(2)	50.8	(2)	-		-	4						
1 1/2"	150	127	(5)	98.4	(3.87)	17.5	(0.69)		-	16	(0.63)	73	(2.87)	73	(2.87)	-	40	(1.57)	4						
1 1/2	300/600	156	(6.14)	114.3	(4.5)	22.2	(0.87)			22	(0.87)	73	(2.87)	73	(2.87)	-	40	(1.57)	4						
	150	152.4	(6)	120.7	(4.75)	17.5	(0.69)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	101.6 (4.0)) 48	(1.89)	4						
2"	300	165.1	(6.5)	127	(5)	20.7	(8.0)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	107.9 (4.2	5) 48	(1.89)	8						
	600	165.1	(6.5)	127	(5)	25.4	(1)	82.6	(3,25)	19	(0.75)	92	(3.62)	92	(3.62)	107.9 (4.2	5) 48	(1.89)	8						
	150	190.5	(7.5)	152.4	(6)	22.3	(0.87)	114.3	(4.50)	19	(0.75)	127	(5)	127	(5)	133.4 (5.2	5) 73	(2.87)	4						
3"	300	209.5	(8.25)	168.1	(6.62)	27	(1.06)	123.8	(4.87)	22	(0.87)	127	(5)	127	(5)	146.1 (5.7	5) 73	(2.87)	8						
	600	209.5	(8.25)	168.1	(6.62)	31.8	(1.25)	123.8	(4.87)	22	(0.87)	127	(5)	127	(5)	146.1 (5.7	73	(2.87)	8						
	150	228.6	(9)	190.5	(7.5)	22.3	(0.87)	149.2	(5.87)	19	(0.75)	158	(6.22)	158	(6.22)	171.5 (6.7	5) 89	(3.5)	8						
4"	300	254	(10)	200	(7.87)	30.2	(1.18)	149.2	(5.87)	22	(0.87)	158	(6.22)	158	(6.22)	174.6 (6.8	") 89	(3.5)	8						
	600	273	(10.75)	215.9	(8.5)	38.1	(1.5)	149.2	(5.87)	25	(1)	158	(6.22)	158	(6.22)	174.6 (6.8	7) 89	(3.5)	8						

				EN	1092-1	l / DI	N2501	DII						
DN	PN	,	A	E	3		С		E	F	=	(G	# HOLES
25	10/40	115	(4.53)	85	85 (3.35)		(0.71)	14	(0.55)	68	(2.68)		-	4
40	10/40	150	(5.91)	110	(4.33)	18	(0.71)	18	(0.71)	88	(3.46)	73	(2.87)	4
50	10/40	165	(6.50)	125	(4.92)	20	(0.78)	18	(0.71)	102	(4.01)	48	(1.89)	4
80	10/40	200	(7.87)	160	(6.30)	24	(0.95)	18	(0.71)	138	(5.43)	73	(2.87)	8
400	10/16	220	(8.67)	180	(7.08)	20	(0.78)	18	(0.71)	158	(6.22)	89	(3.5)	8
100	25/40	235	(9.25)	190	(7.50)	24	(0.95)	22	(0.87)	162	(6.38)	89	(3.5)	8

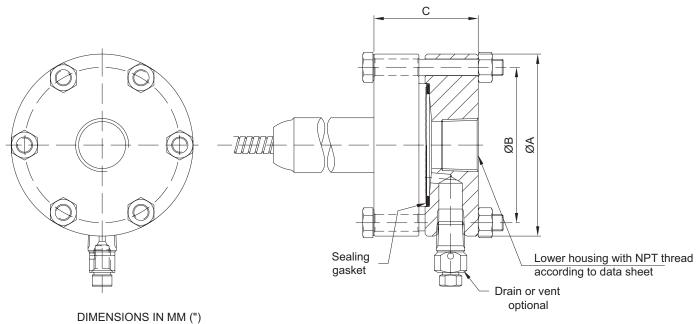
NOTES:

- EXTENSIONS LENGTH IN mm(in): 0, 50 (1.96), 100 (3.93), 150 (5.9) or 200 (7.87)
- DIMENSIONS IN mm(in)





SR301R - Threaded Remote Seal

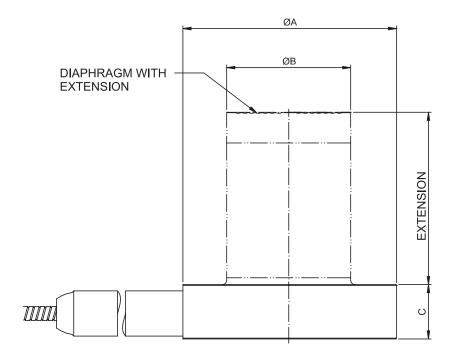


DRAIN NOT AVAILABLE FOR 1.1/2"NPT

LIMIT	Α	В	С	# HOLES
2500PSI	89 (3.50)	76 (2.99)	51 (2.01)	6

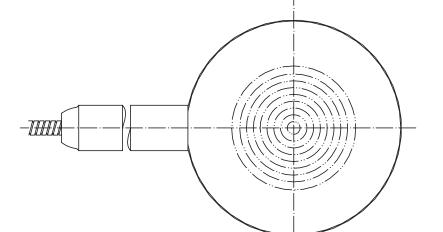


SR301P - Pancake Remote Seal without Extension SR301Q - Pancake Remote Seal with Extension



WITHOUT EXTENSION

1A	NSI-B16.5	DIM	ENSIC	NS	
DN	CLASS		С	Ø.	A
1.1/2"	1502500	32	(1.26)	73.2	(2.88)
2"	1502500	32	(1.26)	92	(3.62)
3"	1502500	32	(1.26)	127	(5)
4"	1502500	32	(1.26)	157.2	(6.19)
	EN 1092	:-1 / C	IN2501		
DN	PN		С	Ø.	A
40	10100	32	(1.26)	88	(3.46)
50	10100	32	(1.26)	101.6	(4)
80	10100	32	(1.26)	138	(5.43)
100	10100	32	(1.26)	162	(6.38)
	JIS B 220	2 DI	MENS	IONS	;
	CLASS		С	Ø.	A
40A	20K	32	(1.26)	81	(3.19)
50A	10K	32	(1.26)	96	(3.78)
JUA	40K	32	(1.26)	105	(4.13)
004	10K	32	(1.26)	126	(4.96)
80A	20K	32	(1.26)	132	(5.19)
100A	10K	32	(1.26)	151	(5.94)



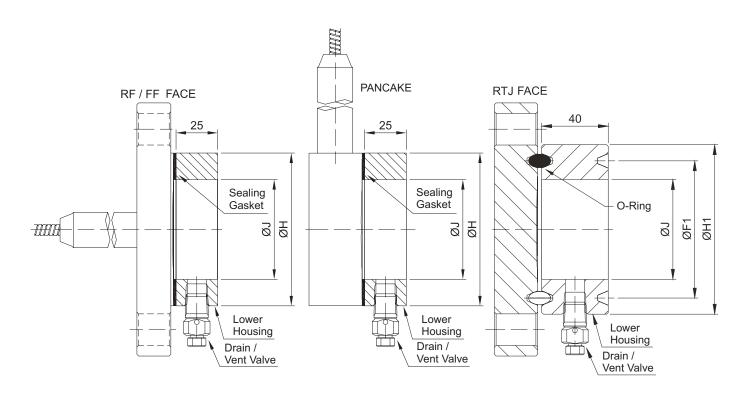
WITH EXTENSION

		A	ANSI-B	16.5			
DN	CLASS		С	(ØВ	Ģ	ĎΑ
1.1/2"	150600	30	(1.18)	39.5	(1.55)	73.2	(2.88)
2"	150600	30	(1.18)	47.5	(1.87)	92	(3.62)
3"	150600	30	(1.18)	72.5	(2.85)	127	(5)
4"	150600	30	(1.18)	95.5	(3.76)	157.2	(6.19)
	E	EN 1	092-1 / 1	DIN25	501		
DN	PN		С	(ØВ	Ç	ĎΑ
40	1040	30	(1.18)	39.5	(1.55)	88	(3.46)
50	1040	30	(1.18)	47.5	(1.87)	101.6	(4)
80	1040	30	(1.18)	72.5	(2.85)	138	(5.43)
100	1040	30	(1.18)	95.5	(3.76)	162	(6.38)





Lower Housing



DIMENSIONS IN MM (")

		()	
	ANSI-B 16.5	DIMENSIONS	3
DN	CLASS	Н	J
1"		50.8 (2.00)	35 (1.38)
1.1/2"		73.2 (2.88)	48 (1.89)
2"	ALL	91.9 (3.62)	60 (2.36)
3"		127 (5.00)	89 (3.50)
4"		158 (6.22)	115 (4.53)
DIN EN1092	-1/ DIN2501/25	26 FORM D D	IMENSIONS
DN	PN	Н	J
25		68 (2.68)	35 (1.38)
40		88 (3.46)	48 (1.89)
50	ALL	102 (4.02)	60 (2.36)
80		138 (5.43)	89 (3.50)
100		158 (6.22)	115 (4.53)
	JIS B 2202 D	IMENSIONS	
DN	CLASS	Н	J
40A	20K	81 (3.19)	48 (1.89)
Ε ΟΛ	10K	96 (3.78)	60 (1.36)
50A	40K	105 (4.13)	60 (1.36)
904	10K	126 (4.96)	89 (3.50)
80A	20K	132 (5.20)	89 (3.50)
100A	10K	151 (5.94)	115 (4.53)

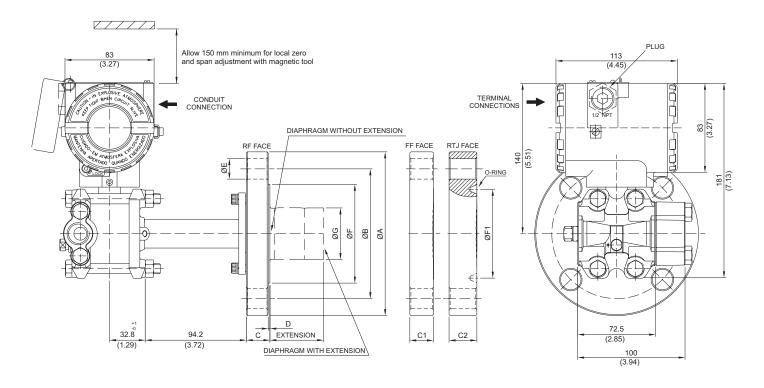
DIMENSIONS IN MM (")

	ANSI	-B 16.5 DIME	NSIONS	- RTJ FACE	
DN	CLASS	F1	O-RING	H1	J
	150	47.6 (1.87)	R15	63.5 (2.50)	35 (1.38)
	300	50.8 (2.00)	R16	70 (2.75)	35 (1.38)
1"	600	50.8 (2.00)	R16	70 (2.75)	35 (1.38)
	1500	50.8 (2.00)	R16	71 5 (2.81)	35 (1.38)
	2500	60.3 (2.37)	R18	73 (2.88)	35 (1.38)
	150	65.1 (2.56)	R19	82.5 (3.25)	48 (1.89)
	300	68.3 (2.69)	R20	90.5 (3.56)	48 (1.89)
1.1/2"	600	68.3 (2.69)	R20	90.5 (3.56)	48 (1.89)
	1500	68.3 (2.69)	R20	92 (3.62)	48 (1.89)
	2500	82.6 (3.25)	R23	114 (4.50)	48 (1.89)
	150	82.6 (3.25)	R22	102 (4.00)	60 (2.36)
	300	82.6 (3.25)	R23	108 (4.25)	60 (2.36)
2"	600	82.6 (3.25)	R23	108 (4.25)	60 (2.36)
	1500	95.3 (3.75)	R24	124 (4.88)	60 (2.36)
	2500	101.6 (4.00)	R26	133 (5.25)	60 (2.36)
	150	114.3 (4.50)	R29	133 (5.25)	89 (3.50)
3"	300	123.8 (4.87)	R31	146 (5.75)	89 (3.50)
	600	123.8 (4.87)	R31	146 (5.75)	89 (3.50)
	150	149.2 (5.87)	R36	171 (6.75)	115 (4.53)
4"	300	149.2 (5.87)	R37	175 (6.88)	115 (4.53)
	600	149.2 (5.87)	R37	175 (6.88)	115 (4.53)





LD300L (RF/FF/RTJ) - Level Transmitter (Integral Flange)



NOTE

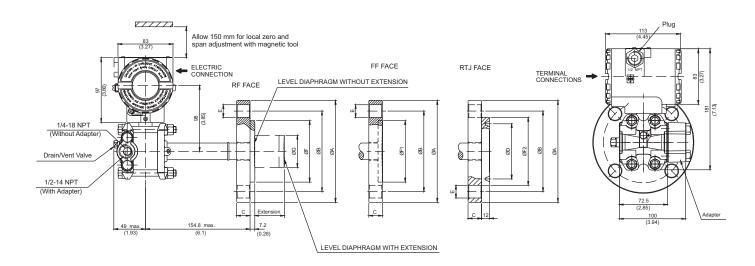
- -EXTENSION LENGTH IN (mm): 0, 50, 100, 150 OR 200
- -DIMENSIONS IN mm (in)

										ANSI-B 1	16.5		MENSI	ONS									
DN	CLASS	<i>A</i>	Α	Е	3	C	(RF)	C1	(FF)	C2 (RTJ))	D (RF)		E	F (I	RF)	F1 (R	RTJ)	ANEL RTJ		G	# HOLES
	150	127	(5)	98.6	(3.88)	20	(0.78)	19	(0.75)	24.4 (0.9	96)	1.6	(0.06)	16	(0.63)	73.2	(2.88)	65.1 ((2.56)	R19	40	(1.57)	4
1.1/2"	300	155.4	(6.12)	114.3	(4.5)	21	(0.83)	21	(0.83)	27.4 (1.0	07)	1.6	(0.06)	22	(0.87)	73.2	(2.88)	68.3 ((2.68)	R20	40	(1.57)	4
	600	155.4	(6.12)	114.3	(4.5)	29.3	(1.15)	29.3	(1.15)	29.3 (1.1	15)	6.4	(0.25)	22	(0.87)	73.2	(2.88)	68.3 ((2.68)	R20	40	(1.57)	4
	150	152.4	(6)	120.7	(4.75)	22	(0.87)	20	(0.78)	25.9 (1.0	02)	1.6	(0.06)	19	(0.75)	91.9	(3.62)	82.6 ((3.25)	R22	48	(1.89)	4
2"	300	165.1	(6.5)	127	(5)	22.8	(0.9)	22.8	(0.89)	30.8 (1.2	21)	1.6	(0.06)	19	(0.75)	91.9	(3.62)	82.6 ((3.25)	R23	48	(1.89)	8
	600	165.1	(6.5)	127	(5)	32.3	(1.27)	32.3	(1.27)	32.3 (1.2	27)	6.4	(0.25)	19	(0.75)	91.9	(3.62)	82.6 ((3.25)	R23	48	(1.89)	8
	150	190.5	(7.5)	152.4	(6)	24.4	(0.96)	24.4	(0.96)	30.7 (1.2	21)	1.6	(0.06)	19	(0.75)	127	(5)	114.3 ((4.50)	R29	73	(2.87)	4
3"	300	209.5	(8.25)	168.1	(6.62)	29	(1.14)	29	(1.14)	36.9 (1.4	45)	1.6	(0.06)	22	(0.87)	127	(5)	123.8 ((4.87)	R31	73	(2.87)	8
	600	209.5	(8.25)	168.1	(6.62)	38.7	(1.52)	38.7	(1.52)	40.2 (1.5	58)	6.4	(0.25)	22	(0.87)	127	(5)	123.8 ((4.87)	R31	73	(2.87)	8
	150	228.6	(9)	190.5	(7.5)	24.4	(0.96)	24.4	(0.96)	30.7 (1.2	21)	1.6	(0.06)	19	(0.75)	158	(6.22)	149.2 ((5.87)	R36	96	(3.78)	8
4"	300	254	(10)	200	(7.87)	32.2	(1.27)	32.2	(1.27)	40.2 (1.5	58)	1.6	(0.06)	22	(0.87)	158	(6.22)	149.2 ((5.87)	R37	96	(3.78)	8
	600	273	(10.75)	215.9	(8.5)	45	(1.77)	45	(1.77)	46.5 (1.8	83)	6.4	(0.25)	25	(1)	158	(6.22)	149.2 ((5.87)	R37	96	(3.78)	8
										EN 10	92-	1 DI	MENSI	ONS									
DN	PN	A		В		C ((RF)	C1	(FF)			[)	ı	Ξ	F (I	RF)					G	# HOLES
DN40	10/40	150	(5.9)	110	(4.33)	20	(0.78)	20	(0.78)		Λ	3	(0.12)	18	(0.71)	88	(3.46)				40	(1.57)	4
DN50	10/40	165	(6.5)	125	(4.92)	20	(0.78)	22	(0.86)		′ [3	(0.12)	18	(0.71)	102	(4.01)				48	(1.89)	4
DN80	10/40	200	(7.87)	160	(6.3)	24	(0.95)	24	(0.94)	/		3	(0.12)	18	(0.71)	138	(5.43)			_	73	(2.87)	8
DN100	10/16	220	(8.67)	180	(7.08)	20	(0.78)					3	(0.12)	18	(0.71)	158	(6.22)				96	(3.78)	8
	25/40	235	(9.25)	190	(7.5)	24	(0.95)					3	(0.12)	22	(0.87)	162	(6.38)				96	(3.78)	8
										JIS B	220		IMENS										
DN	CLASS	A		В			С)			F (I						G	# HOLES
40A	20K	140	(5.5)	105	(4.13)	26	(1.02)			/		2	(0.08)	19	(0.75)	81	(3.2)				40	(1.57)	4
50A	10K	155	(6.1)	120	(4.72)	26	(1.02)					2	(0.08)	19	(0.75)	96	(3.78)				48	(1.89)	4
	40K	165	(6.5)	130	(5.12)	26	(1.02)				ļ	2	(0.08)	19	(0.75)	105	(4.13)		,		48	(1.89)	8
80A	10K	185	(7.28)	150	(5.9)	26	(1.02)					2	(80.0)	19	(0.75)	126	(4.96)				73	(2.87)	8
	20K	200	(7.87)		(6.3)	26	(1.02)	/				2	(0.08)	19	(0.75)	132	(5.2)				73	(2.87)	8
100A	10K	210	(8.27)	175	(6.89)	26	(1.02)					2	(0.08)	19	(0.75)	151	(5.95)				96	(3.78)	8





LD300L (RF/FF/RTJ) - Level Transmitter (Slip-on Flange)



ANSI-B 16.5 DIMENSIONS																			
DN	CLASS	F	A	В		С		D		Е		F (RF)		F1 (FF)		F2 (RTJ)	G		# HOLES
1"	150	108	(4.25)	79.4	(3.16)	14.3	(0.56)		-		(0.63)	50.8	(2)	50.8	(2)	-		-	4
	300/600	124	(4.88)	88.9	(3.5)	17.5	(0.69)	-		19	(0.75)	50.8	(2)	50.8	(2)	-		-	4
1 1/2"	150	127	(5)	98.4	(3.87)	17.5	(0.69)	-		16	(0.63)	73	(2.87)	73	(2.87)	-	40	(1.57)	4
1 1/2	300/600	156	(6.14)	114.3	(4.5)	22.2	(0.87)	-		22	(0.87)	73	(2.87)	73	(2.87)	-	40	(1.57)	4
2"	150	152.4	(6)	120.7	(4.75)	17.5	(0.69)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	101.6 (4.00)	48	(1.89)	4
	300	165.1	(6.5)	127	(5)	20.7	(8.0)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	107.9 (4.25)	48	(1.89)	8
	600	165.1	(6.5)	127	(5)	25.4	(1)	82.6	(3.25)	19	(0.75)	92	(3.62)	92	(3.62)	107.9 (4.25)	48	(1.89)	8
3"	150	190.5	(7.5)	152.4	(6)	22.3	(0.87)	114.3	(4.50)	19	(0.75)	127	(5)	127	(5)	133.4 (5.25)	73	(2.87)	4
	300	209.5	(8.25)	168.1	(6.62)	27	(1.06)	123.8	(4.87)	22	(0.87)	127	(5)	127	(5)	146.1 (5.75)	73	(2.87)	8
	600	209.5	(8.25)	168.1	(6.62)	31.8	(1.25)	123.8	(4.87)	22	(0.87)	127	(5)	127	(5)	146.1 (5.75)	73	(2.87)	8
4"	150	228.6	(9)	190.5	(7.5)	22.3	(0.87)	149.2	(5.87)	19	(0.75)	158	(6.22)	158	(6.22)	171.5 (6.75)	89	(3.5)	8
	300	254	(10)	200	(7.87)	30.2	(1.18)	149.2	(5.87)	22	(0.87)	158	(6.22)	158	(6.22)	174.6 (6.87)	89	(3.5)	8
	600	273	(10.75)	215.9	(8.5)	38.1	(1.5)	149.2	(5.87)	25	(1)	158	(6.22)	158	(6.22)	174.6 (6.87)	89	(3.5)	8

EN 1092-1 / DIN2501								DIMENSIONS - RF/ FF							
DN	PN	Α		В		С		E		F		G		# HOLES	
25	10/40	115	(4.53)	85	(3.35)	18	(0.71)	14	(0.55)	68	(2.68)		-	4	
40	10/40	150	(5.91)	110	(4.33)	18	(0.71)	18	(0.71)	88	(3.46)	73	(2.87)	4	
50	10/40	165	(6.50)	125	(4.92)	20	(0.78)	18	(0.71)	102	(4.01)	48	(1.89)	4	
80	10/40	200	(7.87)	160	(6.30)	24	(0.95)	18	(0.71)	138	(5.43)	73	(2.87)	8	
400	10/16	220	(8.67)	180	(7.08)	20	(0.78)	18	(0.71)	158	(6.22)	89	(3.5)	8	
100	25/40	235	(9.25)	190	(7.50)	24	(0.95)	22	(0.87)	162	(6.38)	89	(3.5)	8	

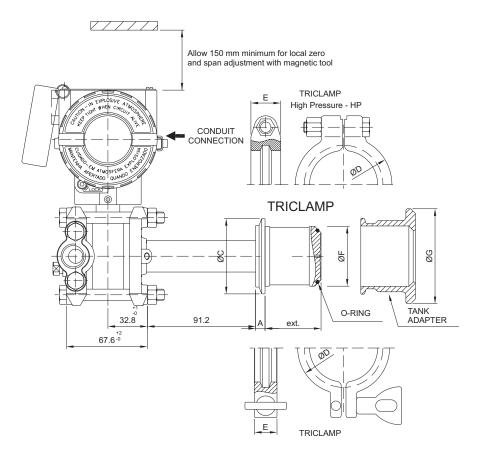
NOTES:

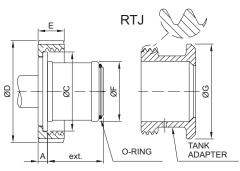
- -EXTENSION LENGTH IN mm(in): 0, 50 (1.96), 100 (3.93), 150(5.9) or 200 (7.87) -FOR 1" AND DN25 THE EXTENSION LENGTH IS 0 mm -DIMENSIONS IN mm(in)

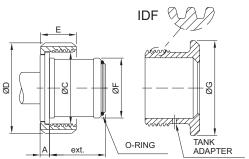


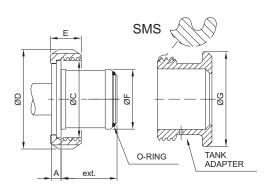


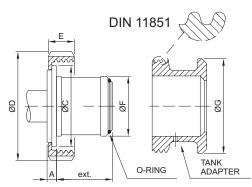
LD300S – Sanitary Transmitter with Extension









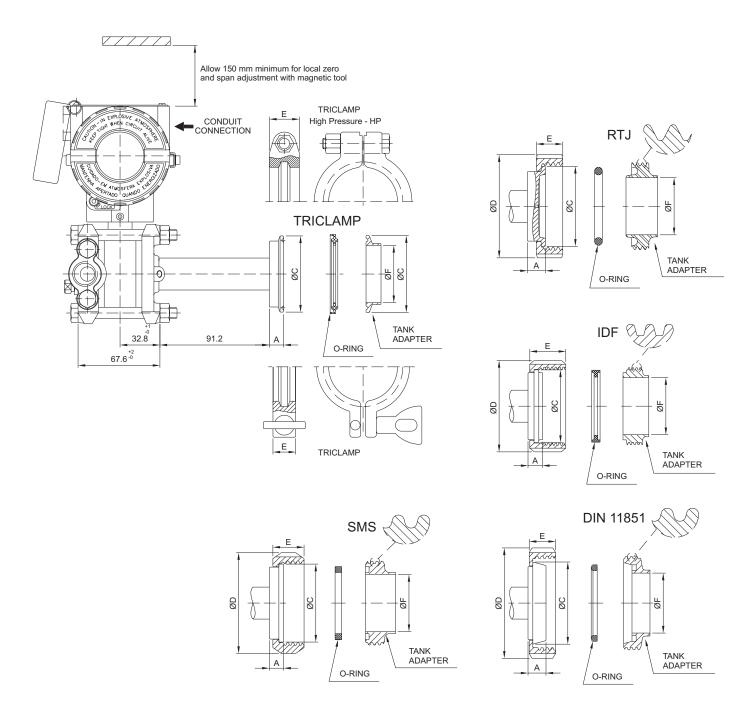


Dimensions see Table 11





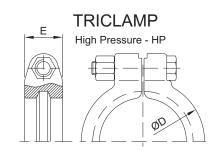
LD300S – Sanitary Transmitter without Extension

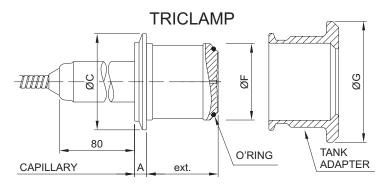


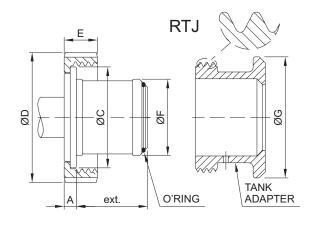
Dimensions see Table 11

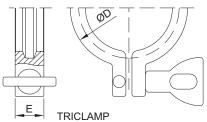


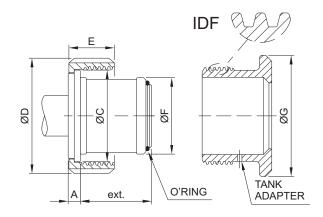
SR301S – Sanitary Remote Seal with Extension

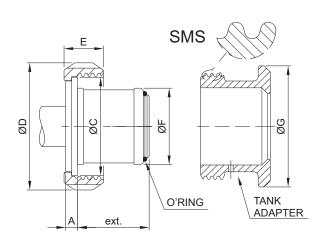


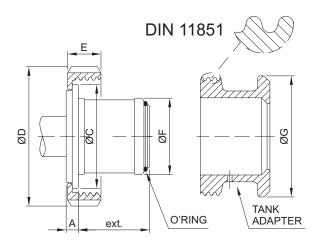










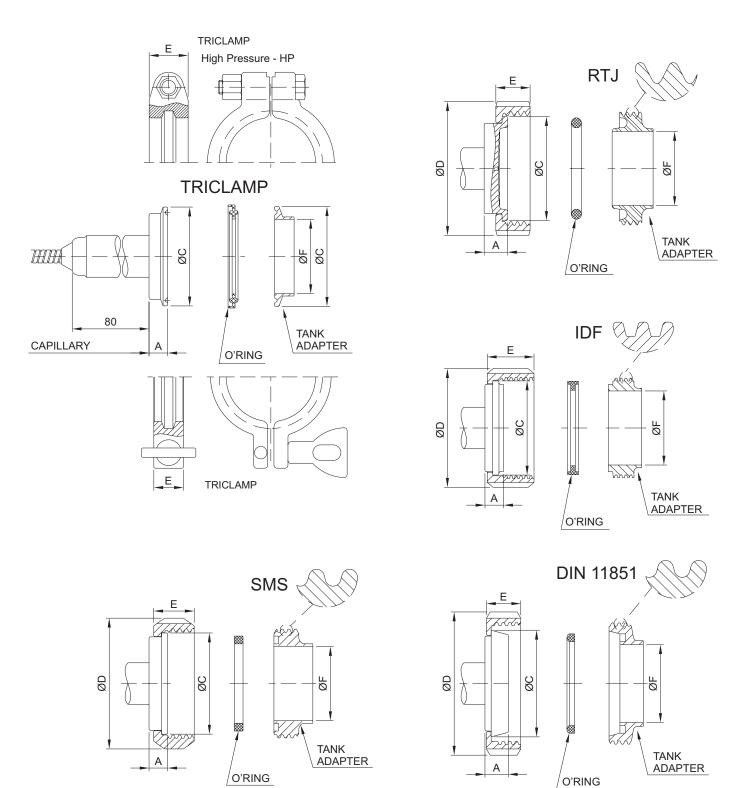


Dimensions see Table 11





SR301S – Sanitary Remote Seal without Extension



Dimensions see Table 11



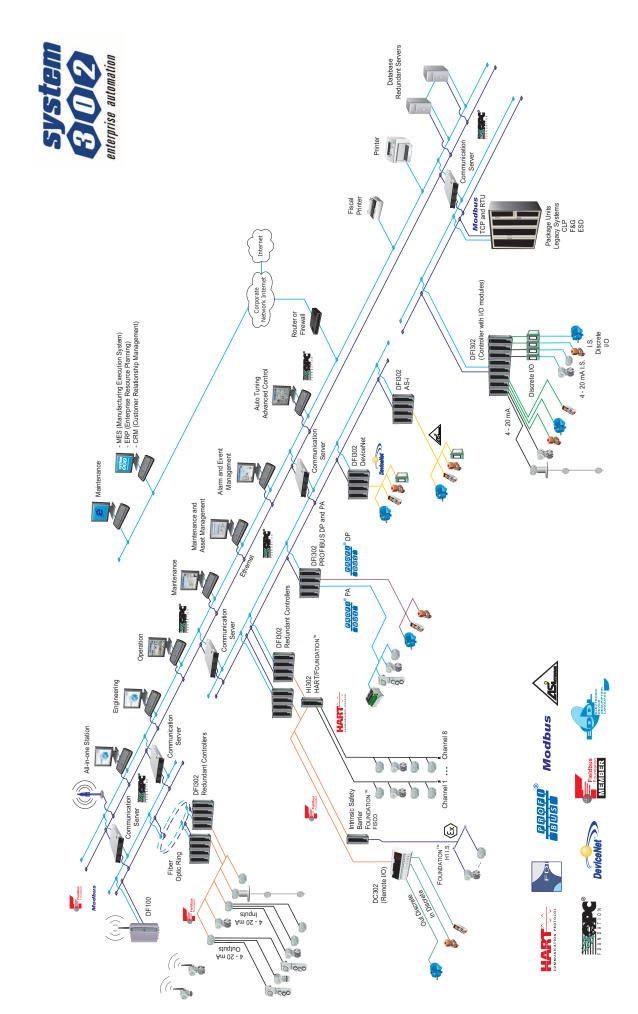


CONNECTION WITHOUT	SR301S / LD300S - Dimensions em mm (")											
EXTENSION	Α	ØС	ØD	E	ØF	ØG	EXT.					
Tri-Clamp DN50 - without extension	8 (0.315)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	47.5 (1.87)							
Tri-Clamp - 1 1/2" - without extension	12 (0.47)	50 (1.96)	61 (2.4)	18 (0.71)	35 (1.38)							
Tri-Clamp - 1 1/2" HP - without extension	12 (0.47)	50 (1.96)	66 (2.59)	25 (0.98)	35 (1.38)							
Tri-Clamp - 2" - without extension	12 (0.47)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	47.6 (1.87)							
Tri-Clamp - 2" HP - without extension	12 (0.47)	63.5 (2.5)	81 (3.19)	25 (0.98)	47.6 (1.87)							
Tri-Clamp - 3" - without extension	12 (0.47)	91 (3.58)	110 (4.33)	18 (0.71)	72 (2.83)							
Tri-Clamp - 3" HP - without extension	12 (0.47)	91 (3.58)	115 (4.53)	25 (0.98)	72 (2.83)							
Threaded DN40 - DIN 11851 - without extension	13 (0.51)	56 (2.2)	78 (3.07)	21 (0.83)	38 (1.5)							
Threaded DN50 - DIN 11851 - without extension	15 (0.59)	68.5 (2.7)	92 (3.62)	22 (0.86)	50 (1.96)							
Threaded DN80 - DIN 11851 - without extension	16 (0.63)	100 (3.94)	127 (5)	29 (1.14)	81 (3.19)							
Threaded SMS - 1 1/2" - without extension	12 (0.47)	55 (2.16)	74 (2.91)	25 (0.98)	35 (1.38)							
Threaded SMS - 2" - without extension	12 (0.47)	65 (2.56)	84 (3.3)	26 (1.02)	48.6 (1.91)							
Threaded SMS - 3" - without extension	12 (0.47)	93 (3.66)	113 (4.45)	32 (1.26)	73 (2.87)							
Threaded RJT - 2" - without extension	15 (0.59)	66.7 (2.63)	86 (3.38)	22 (0.86)	47.6 (1.87)							
Threaded RJT - 3" - without extension	15 (0.59)	92 (3.62)	112 (4.41)	22.2 (0.87)	73 (2.87)							
Threaded IDF - 2" - without extension	12 (0.47)	60.5 (2.38)	76 (2.99)	30 (1.18)	47.6 (1.87)							
Threaded IDF - 3" - without extension	12 (0.47)	87.5 (3.44)	101.6 (4)	30 (1.18)	73 (2.87)							
CONNECTION WITH	SR301S / LD300S - Dimensions em mm (")											
EXTENSION	Α	øс	ØD	E	ØF	ØG	EXT.					
Tri-Clamp DN50 - with extension	8 (0.315)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	50.5 (1.99)	80 (3.15)	48 (1.89					
Tri-Clamp DN50 HP - with extension	8 (0.315)	63.5 (2.5)	81 (3.19)	25 (0.98)	50.5 (1.99)	80 (3.15)	48 (1.89					
Tri-Clamp - 2" - with extension	8 (0.315)	63.5 (2.5)	76.5 (3.01)	18 (0.71)	50.5 (1.99)	80 (3.15)	48 (1.89					
Tri-Clamp - 2" HP - with extension	8 (0.315)	63.5 (2.5)	81 (3.19)	25 (0.98)	50.5 (1.99)	80 (3.15)	48 (1.89					
Tri-Clamp - 3" - with extension	8 (0.315)	91 (3.58)	110 (4.33)	18 (0.71)	72.5 (2.85)	100 (3.94)	50 (1.96					
Tri-Clamp - 3" HP - with extension	8 (0.315)	91 (3.58)	115 (4.53)	25 (0.98)	72.5 (2.85)	100 (3.94)	50 (1.96					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					
Threaded 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					

Table 11 - SR301S / LD300S - Table relative to dimensional drawings from pages 26, 27, 28 and 29











Pressure Pressure and Level Pressure, Level and Flow 4-20 mA LD290 RT LD400 4-20 mA LD290 HART → LD400 4-20 mA LD290 HART → I D1 0 ART LD291 HART → LD301 HART LD291 LD292 LD302 LD292 **LD292** LD303 100000° LD293 ### LD293 66660° LD293 WirelessHART **Pressure Gauge Economic Flanged** Pressure Pressure **Pressure**

Transmitter "In Line"

Capacitive Pressure **Transmitter**

Transmitter

Transmitter with Extended Probe

Transmitter Transmitter with High **Performance**

Pressure **Transmitter**



Guided Wave Level Transmitter

Density/Concentration



Intelligent Density / Concentration Transmitter

Position



Valve Positioner



Valve Positioner with Auto Tuning

Position



Valve Positioner with **Remote Sensor**



Pneumatic Linear Cylindric Actuador



Pneumatic Rotary Cylindric Actuador



Position **Transmitter**

Temperature



Temperature Transmitter

РВОГО® ТТ383



Eight Input Temperature Transmitter

TT400 HART® SIS



Smart Temperature Transmitter



WirelessHART **Temperature** Transmitter



Panel Mounting Temperature **Transmitter**



Head Mouting Temperature Transmitter





Junction Box

JM1 4-20 mA

3 Ways Junction Box

JM400



4 Ways Junction Box

Didactic Products



Didactic Plant



Didactical Kits

Configurators

HART CONF401



HART® Configurator Interface

HART → DDCON 100



HART® Configurator Interface

HART® Configurator

Interfaces



HART-USB Interface for PC



PBI-PLUS

Advanced PROFIBUS PA Interface

Converters



PROFIBUS PA to Pneumatic Signal Converter



IF302





FOUNDATION™ / Triple Channel Current to FOUNDATION™ / **PROFIBUS PA** Converters



FI302





Triple Channel FOUNDATIONTM / **PROFIBUS PA to Current Converters**

FRI302 FRI303



FOUNDATIONTM / **PROFIBUS PA** Relay and **Digital Input**

HI302



HART® / **Fieldbus** Interface



HART → HCC301

HART®/ Current Converter

Controllers

DFI302



Interface Universal Fieldbus

LC700



Programmable Logical Controller

CD600Plus



Digital Controller





Controllers - Remote Input and Output



HSE Controller and WirelessHART Gateway

DC303

DC302





FOUNDATION™ fieldbus / PROFIBUS PA **Remote Input and Output**

SYSTEM302



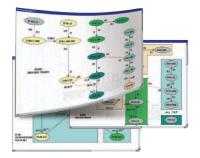
ProcessView Supervision / Operation System



SimulationView Control Strategy Simulator



AssetView STANDALONE Asset Management System



Syscon Control Strategy and **Industrial Network Configurator**



Process Equipment Database Plant Information Management



LogicView for FFB **IEC61131 Programming Tool**



HART√√









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