Data Sheet DS/S26-EN Rev. I

Model S26 seals for remote and direct mount

Engineered solutions for all applications

Measurement made easy



All welded constructions

combine an economically feasible and technically sound solution ensuring total reliability at line pressure down to full vacuum

Large selection of options, materials and fill fluids meet nearly all process requirements

Wide range of remote seal types allow optimum design for each application

without compromise of performance

Special designed remote seals for individual process solutions

add flexibility for most demanding services



Remote Seals Overview

The S26 seals are used in combination with 2600T transmitters, allowing differential, gauge or absolute pressure measurements.

Connection of the seal(s) to the relevant transmitter can be achieved as follows :

- directly mounted with a short capillary connecting the "integral" seal to the transmitter sensor;
- through a capillary system which link the transmitter sensor to a "remote" seal of any version.

Using remote seal the transmitter can be selected with

- two seals using same fill fluid, capillary and diaphragm size
- one seal having the other side configured with a process flange for wet/dry leg connection or a blind flange providing vacuum or atmospheric reference.

Model 264HR/NR transmitters have always one remote seal only, with a selectable reference to atmosphere or vacuum respectively for gauge or absolute pressure measurements. The S26 Series Seal System is a protective device used to isolate 2600T series transmitters from the process fluid. The seal system provides a flexible diaphragm seal between the process fluid and a liquid filled capillary tube connected to the body of the transmitter. The diaphragm isolates the process fluid while the filled capillary tube hydraulically transmits the process pressure to the transmitter sensor. The capillary of remote seal is corrosion-resistant with robust costruction in stainless steel with spiral armour protection, also PVC jacket; PVC protection is always recommended except for high temperature application, where stainless steel armour is suggested. The all welded construction assures reliable operation over the widest range of operating temperature and under vacuum conditions.

For certain applications, use of seal is necessary to prevent the process fluid from leaving its enclosure, due to reasons such as :

- the process fluid has solids in suspension or is highly viscous and can foul impulse lines.
- the process fluid can solidify in impulse lines or the transmitter.
- the process fluid is too hazardous to enter the control area where the transmitter is located.
- the process temperature exceeds the recommended limits for the transmitter.
- the application is interface level or density measurement. Remote seals offer the required constant and equal specific gravity of the pressure transfer fluid on the high and low sides of the transmitter.
- the transmitter must be located away from the process for easier maintenance.

The S26 series is available with process connections for ASME, EN or JIS pipe flanges, wedge flow elements, chemical tees, and threaded pipe fittings. Extended diaphragm remote seals, suitable for connection to 2in - 3in or 4in flanged tank nozzles or flanged tees, permit the seal diaphragm to be located flush with the inside of a tank or pipe. Sanitary type seals meet the stringent requirements of sanitary food, dairy, pharmaceutical and BioTech applications, offering FDA approved fillings and compliance with 3-A Sanitary Standards. Fill fluids with FDA are defined as food fills and are Generally Recognized As Safe (GRAS) by the US Food and Drug Administration (FDA).

Seal system selection criteria

Application of an S26 system in direct mount or remote seal configuration to 2600T transmitters affects performances of original devices. Effects are evident in:

- Accuracy
- Temperature effects
- Dynamic response

Accuracy is only marginally affected when seal diaphragm stiffness is relevant compared with sensor stiffness. This is the only characteristic of the S26 system which has role on accuracy performance. High stiffness of diaphragm associated with low URL might produce increased errors of linearity, hysteresis, and long term stability; when diaphragm stiffness is accuracy related also temperature effects are significantly affected.

Some basic considerations on diaphragm stiffness help understanding effects introduced by S26 system associated with transmitters. This is physically defined by the ratio between the pressure variation applied to the diaphragm and the corresponding volume variation. The stiffness is not linear along the whole diaphragm volumetric displacement, but the S26 design is such to maintain the system linear within the service conditions of the transmitter such as:

- Operating pressure range
- Operating static pressure (for differential transmitters)
- Ambient and process temperature limits

Diaphragm stiffness is a function of material and thickness (elastic coefficient), diameter (type), convolution shape and geometry (design defined). S26 system has effect on temperature performance of the complete transmitter. This effect is mostly on zero of the instrument and is produced by the expansion of the fill fluid into the closed volume formed by the transmitter flange cavity the capillary volume and the remote seal volume. This volume filled with a fluid with specific expansion coefficient; change in temperature of the measuring device produce a volume variation which is absorbe by the remote diaphragm, whose stiffness produces a change in the fluid pressure: this is the zero error. In real application the transmitter/seal system is not the same and stable temperature.

Therefore the errors referred in this document for each type of diaphragm and different fluids should be taken as a reference for qualitatively evaluation and not a true behaviour in normal application conditions. Should again be recognized that the stiffness of diaphragm and in this case, the thermal coefficient of fluid are the parameter to take into account.

Application of S26 seal to transmitters increases the original time response. The amount of the increase depends from the number of elements and condition of the instrument as follow:

- transmitter sensor range
- physical configuration (i.e. a remote seal on other side)
- type of measure/number of seal (one or two)
- fill fluid viscosity of the S26 system applied
- ambient temperature (affects the transmitter and the capillary) and process temperature on the seal diaphragm
- capillary length

The delay introduced by the seal may be considered as an added constant time to the one of the associated transmitter.

For obtaining the best application solution :

- choose sensor code with URL closest to application SPAN
- select largest diameter diaphragm seal related to URL.
- keep the capillary length as short as possible
- select the fill fluid that suits the most extreme process conditions expected (highest temperature and lowest pressure) and it is compatible with the process fluid.
- In vacuum application, choose always the all welded version and mount the transmitter primary 30 cm/12 inches or more below the bottom seal connection.
- In a two-seal system use the same diaphragm size, capillary length and fill fluid on each side of the transmitter

Ordering Information

The transmitter and each seal system are each identified by a product code number. These code numbers are stamped on the transmitter nameplate and each character identifies specific product features. Refer to ordering information for a detailed explanation of the product code numbers.

Industrial application in chemical, sanitary, food and any other process industries may require seal configurations and/or process connection different from those reported in this document. Each "special" should be evaluated by ABB to check the correctness and its level of functionality. Ask for the "S26 series seal form" to define precisely the measuring problem and application requirements.

ABB can also cooperate with you by developing a special remote seal for problems requiring individual solutions.

PLEASE CONTACT YOUR LOCAL ABB OFFICE OR REPRE-SENTATIVE FOR ADDITIONAL INFORMATION, SPECIFIC SEAL DATA AND APPLICABILITY.

The following table shows the types of standard seals considered in this leaflet, detailing the MAXIMUM CAPILLARY LENGTH according to the combination SEAL/TRANSMITTER SENSOR.

The mnemonics will be used as shortest cross references with the transmitter data sheet which should be read in conjunction with this data sheet.

Seal	Seal type	Seal diaphragm	Two seals construction								0	ne s	eal c	onstr	uctio	on			Mnemonic		
model		size (thickness)				SEN	SOR								SEN	SOR					
		[flange type]	B-C	Е	F	H-L	М	N-P	Q-R	S	С	Е	F	H-L	D-M	U-P	Q-R	S	w	z	
		1.5 in. /DN 40	-	-	1	4	5	5	5	5	-	-	-	3	5	5	5	5	5	-	P1.5
	Wafer	2 in. / DN 50	-	1	3	8	8	10	10	10	-	-	2	6	8	8	8	8	8	-	P2
S26WA	(ASME and	3 in. / DN 80	1.5	3	6	8	16	16	16	16	-	1	4	10	10	10	10	10	10	-	P3
S26WE	EN standards)	1.5 in. /DN 40 (low)	-	1	3	6	6	8	8	8	-	-	-	4	6	6	6	6	6	-	F1.5
		2 in. / DN 50 (low)	1	2	4	8	12	16	16	16	1	1	3	8	12	16	16	16	16	-	F2
		3 in. / DN 80 (low)	2	5	8	10	16	16	16	16	2	2	6	10	16	16	16	16	16	-	F3
		2 in. / DN 50	-	1	3	8	8	8	8	8	-	-	2	6	8	8	8	8	8	-	P2
	Flanged flush	3 in. / DN 80	1.5	3	6	10	16	16	16	16	-	1	4	10	10	10	10	10	10	-	P3
	diaphragm	4 in. / DN 100	1.5	3	6	10	16	16	16	16	-	1	4	10	10	10	10	10	10	-	P3
S26FA	(ASME and EN	2 in. / DN 50 (low)	1	2	4	10	12	16	16	16	1	1	3	8	12	16	16	16	16	-	F2
S26FE	standards)	3 in. / DN 80 (low)	2	5	8	12	16	16	16	16	2	2	6	10	16	16	16	16	16	-	F3
S26RA		4 in. / DN 100 (low)	2	5	8	12	16	16	16	16	2	2	6	10	16	16	16	16	16	-	F3
S26RE		2 in. / DN 50	-	1	3	6	6	8	8	-	-	-	1	4	6	6	6	-	-	-	E2
	Flanged extended	3 in. / DN 80	1	2	4	8	12	12	12	-	-	-	3	8	10	10	10	-	-	-	E3
	diaphragm (ASME	4 in. / DN 100	1.5	3	6	8	16	16	16	16	-	1	4	10	10	10	10	10	10	-	P3
	and EN standards)	2 in. / DN 50 [fixed]	-	1	3	6	6	8	8	8	-	-	-	4	6	6	6	6	-	-	F1.5
		3 in. / DN 80 [fixed]	2	5	8	10	12	12	12	12	-	2	6	10	12	12	12	12	-	-	F2.5
		4 in. / DN100 [fixed]	2	5	8	10	12	12	12	12	-	2	6	10	12	12	12	12	-	-	F2.5
	Flanged flush	A 50	-	-	3	8	8	8	8	8	-	-	2	6	8	8	8	8	-	-	P2
S26RJ	diaphragm	A 80	1.5	3	6	8	16	16	16	16	-	1	4	10	10	10	10	10	-	-	P3
	(JIS standards)	A 100	1.5	3	6	8	16	16	16	16	-	1	4	10	10	10	10	10	-	-	P3
	Flanged flush	1.5 in.	-	-	-	4	5	5	5	5	-	-	-	3	5	5	5	5	5	-	P1.5
S26RR	diaphragm (Ring Joint	2 in.	-	1	3	8	8	8	8	8	-	-	2	6	8	8	8	8	8	-	P2
	ASME standard)	3 in.	1.5	3	6	8	16	16	16	16	-	1	4	10	10	10	10	10	10	-	P3
S26RH	Flanged to ISO 10423	1 13/16 in.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	H1.5
	flush diaphragm (API)	2 1/16 in.	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	8	8	P1.5
S26CN	Flanged Chemical Tee	3 in.	1.5	3	6	8	8	8	8	8	-	1	4	8	8	8	8	8	-	-	P3
S26TT	Threaded off-line flanged	2 1/2 in.	1	2	4	8	12	12	12	12	-	2	3	8	8	8	8	8	8	-	T2.5
S26MA	Off-line flanged (ASME	2 1/2 in.	1	2	4	8	12	12	12	12	-	2	3	8	8	8	8	8	-	-	T2.5
S26ME	and EN standards)																				
	Union nut, Triclamp,	2 in. / F50	-	-	1	3	6	6	6	-	-	-	1	3	6	6	6	-	-	-	S2
S26SS	Sanitary, Aseptic	3 in. / 4 in. / F80	1.5	3	6	10	10	10	10	-	-	3	6	10	10	10	10	-	-	-	S3
	Cherry Burrell,	2 in.	-	-	1	3	6	6	6	-	-	-	1	3	6	6	6	-	-	-	S2.5
	Cherry Burrell Aseptic	3 in. / 4 in.	1.5	3	6	10	10	10	10	-	-	3	6	10	10	10	10	-	-	-	S3.5
S26VN	Saddle and Socket	2 1/2 in.	-	-	-	4	5	5	5	5	-	-	-	3	5	5	5	5	-	-	P1.5
S26UN	Union connection type	1 1/2 in.	-	-	-	-	-	-	-	-	-	-	-	3	5	5	5	5	-	-	Z1.5
S26BN	Button type	1 in.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	-	B1
S26PN	Urea service	1 1/2 in.	-	-	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	-	U1.5
	flanged	2 1/2 in.	-	-	3	6	6	6	6	6	-	-	3	6	6	6	6	6	6	-	U2.5

Functional Specifications

The following table show characteristics of fill fluids when used in transmitters with remote seal(s). **FILL FLUID CHARACTERISTICS**

	Process te	mperature	and pressu	Specifications @ 25 °C (77°F)					
Fill fluid (application)	Tmax °C (°F)	Pmin	Tmax	Tmin	Specific	Kinematic	Thermal		
	@ Pabs	mbar abs	°C (°F)	°C (°F)	gravity	viscosity	expansion		
	> of	(mmHg)	@ Pmin		(kg/dm3)	(cst)	(x 10-3 /°C)		
Silicone oil PMX 200 10 cSt	250 (480)	0.7	130	-40	0.934	10	1.08		
	@ 385 mbar	(0.5)	(266)	(-40)					
Silicone oil Baysilone PD5 5 cSt	250 (480)	0.7	45	-85	0.923	5	0.98		
	@ 900 mbar	(0.5)	(113)	(-121)					
Inert oil Galden G5 (oxygen service)	160 (320)	2.1	60	-20	1.82	4.4	1.1		
	@ 1 bar	(1.52)	(140)	(-4)					
Inert oil Halocarbon 4.2 (oxygen service)	180 (356)	4	70	-20	1.87	6.3	0.864		
	@ 425 mbar	(3)	(158)	(-4)					
Silicone polymer Syltherm XLT (cryogenic service)	100 (212)	2.1	20	-100	0.852	1.4	1		
	@ 118 mbar	(1.52)	(68)	(-148)					
Silicone oil for high temperature	375 (707)	0.7	220	-10	1.07	39	0.77		
	@ 1 bar	(0.5)	(428)	(14)					
Vegetable oil Neobee M-20 (food - sanitary) FDA approved	200 (390)	10	20	-18	0.92	9.8	1.2		
	@ 1 bar	(7.2)	(68)	(0)					
Mineral oil Esso Marcol 152 (food - sanitary) FDA approved	250 (480)	0.7	110	-6	0.86	30	0.80		
	@ 630 mbar	(0.5)	(230)	(21)					
Glycerin Water 70% (food - sanitary) FDA approved	93 (200)	1000	93	-7	1.08	2	0.36		
	@ 1 bar	(760)	(200)	(20)					

Absolute viscosity (cP) = Kinematic Viscosity (cSt) x Specific gravity at specified temperature. The absolute viscosity value is used for response time calculation.

SEALS DIMENSIONS ON FOLLOWING PAGES ARE IN mm (in)

S26WA, S26WE Model Wafer remote diaphragm seal

The wafer remote seal is designed to be clamped between two ASME or EN raised face flanges. The diaphragm side of the seal faces the process flange and a blind back-up flange is used on the other side of the seal.

Pressure limits

Seal model S26WA to ASME B16.5	
up to 41.37 MPa, 413.7 bar, 6000 psi	

Seal model S26WE to EN 1092-1	
Form B1	40 MPa, 400 bar, 5800 psi
Form D	16 MPa, 160 bar 2320 psi
Form E	10 MPa, 100 bar, 1450 psi

but not greater then rating of mounting flange (NOT SUPPLIED

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table. Minimum pressure with tantalum diaphragm is 1 kPa abs, 10 mbar abs, 0.15 psia.

Flushing ring		Process limits								
gasket material	Pressure (max.)	Temperature	РхТ							
Garlock	6.9 MPa, 69 bar,	-73 and 204 °C	250000							
	1000 psi	(-100 and 400 °F)	(°F x psi)							
Graphite	2.5 MPa, 25 bar,	-100 and 380 °C								
	362 psi	(-148 and 716 °F)								
PTFE	6 MPa, 60 bar,	-100 and 250 °C								
	870 psi	(-148 and 482 °F)								

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Material	
Tantalum diaphragm	260 °C (500 °F)
PFA anti-stick coating	204 °C (400 °F)
PFA anti-corrosion and anti-stick coating	250 °C (482 °F)
AISI gold plated diaphragm	320 °C (608 °F)

Gasket seat finish

Smooth (ASME or EN): 0.8 μm (Ra) Serrated (ASME): 3.2 to 6.3 μm (Ra) Serrated (EN 1092-1 Type B1): 3.2 to 12.5 μm (Ra) Serrated (EN 1092-1 Type D and E): according to standard

Temperature effect

The following table shows temperature effect per 20 K (36 °F) change, detailed separately for

a) the seal (one element), as process temperature errorb) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26W wafer	Sensor URL	Seal error (process)	Remote mount	1 metre capillary
seal size - Mnemonic			error (ambient)	error (ambient)
1 1/2 in. / DN 40 - P1.5	≥ 160 kPa, 642 inH2O	0.74 kPa, 3 inH2O	0.62 kPa, 2.48 inH2O	0.31 kPa, 1.24 inH2O
1 1/2 in. / DN 40 - F1.5	≥ 160 kPa, 642 inH2O	0.15 kPa, 0.6 inH2O	0.15 kPa, 0.6 inH2O	0.08 kPa, 0.32 inH2O
2 in. / DN 50 - P2	40 kPa, 160 inH2O	0.23 kPa, 0.92 inH2O	0.14 kPa, 0.56 inH2O	0.11 kPa, 0.44 inH2O
2 in. / DN 50 - P2	≥160 kPa, 642 inH2O	0.23 kPa, 0.92 inH2O	0.14 kPa, 0.56 inH2O	0.07 kPa, 0.28 inH2O
2 in. / DN 50 - F2	≥ 4 kPa, 16 inH2O	0.05 kPa, 0.2 inH2O	0.04 kPa, 0.16 inH2O	0.03 kPa, 0.12 inH2O
3 in. / DN 80 - P3	4 - 16 kPa, 16 - 64 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O
3 in. / DN 80 - P3	≥ 40 kPa, 160 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O
3 in. / DN 80 - F3	≥ 4 kPa, 16 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.01 kPa, 0.04 inH2O

MULTIPLY BY 10 THE kPa VALUES TO OBTAIN mbar.







ASME and EN 1092-1 Form B1 smooth and serrated (flushing ring as option)

EN 1092-1 Form D

	Dimensions mm. (in.) for S26W										
Size/Rating	diaphra	gm (dia)	A flushing ring	B (dia)	C (dia)	D (dia)					
	std. thickness	low thickness	internal dia								
1 1/2 in. ASME B16.5	47 (1.85)	47 (1.85)	52 (2.05)	NA	NA	73 (2.87)					
2 in. ASME B16.5	60 (2.36)	58 (2.28)	62 (2.44)	NA	NA	92 (3.62)					
3 in. ASME B16.5	89 (3.5)	75 (2.95)	92 (3.62)	NA	NA	127 (5)					
DN 40 EN 1092-1 Form B1	47 (1.85)	47 (1.85)	52 (2.05)	NA	NA	88 (3.46)					
DN 50 EN 1092-1 Form B1	60 (2.36)	58 (2.28)	62 (2.44)	NA	NA	102 (4.02)					
DN 80 EN 1092-1 Form B1	89 (3.5)	75 (2.95)	92 (3.62)	NA	NA	138 (5.43)					
DN 40 EN 1092-1 Form D	47 (1.85)	47 (1.85)	NA	60 (2.36)	76 (2.99)	88 (3.46)					
DN 50 EN 1092-1 Form D	60 (2.36)	58 (2.28)	NA	72 (2.83)	88 (3.46)	102 (4.02)					
DN 80 EN 1092-1 Form D	89 (3.5)	75 (2.95)	NA	105 (4.13)	121 (4.76)	138 (5.43)					
DN 40 EN 1092-1 Form E	47 (1.85)	47 (1.85)	NA	75 (2.95)	NA	88 (3.46)					
DN 50 EN 1092-1 Form E	60 (2.36)	58 (2.28)	NA	87 (3.42)	NA	102 (4.02)					
DN 80 EN 1092-1 Form E	89 (3.5)	75 (2.95)	NA	120 (4.72)	NA	138 (5.43)					

BASIC ORDERING INFORMATION model S26WA Wafer diaphragm seal to ASME B16.5

Select one character or set of characters from each category and specify complete catalog number.

delect one character of set of characters nonn each category and	specify complete v	Jaran	<u>Jy nu</u>		1.			. <u> </u>		
BASE MODEL - 1 st to 5 th characters	S 2 6 W A	х	xx	х	XX	х	х	X	Х	X
Wafer diaphragm seal to ASME B16.5]								
Transmitter Side of Connection - 6th character								СС	ontinu	ied
High pressure side		Н						see	next	page
Low pressure side		L								
Mounting Flange Rating / Size - 7th and 8th characters										
ASME 1 1/2 in.			D5							
ASME 2 in.			E5							
ASME 3 in.			G5							
Extensions Length and Material - 9th character										
Flush				F						
Diaphragm Material - 10th and 11th characters										
AISI 316 L ss	NACE				SM					
AISI 316 L ss - Low thickness	NACE				SL					
Hastelloy C-276	NACE				ΗM					
Hastelloy C-276 - Low thickness	NACE				HL					
Hastelloy C-2000	NACE				MM					
Inconel 625	NACE				LM					
Tantalum					ΤM					
AISI 316 L ss gold plated	NACE				NM					
AISI 316 L ss with PFA anti-stick coating	NACE				КM					
Hastelloy C-276 with PFA anti-stick coating	NACE				ΥM					
AISI 316 L ss with PFA coating anti-corrosion and anti-stick	NACE				WM					
Diaflex (AISI with anti-abrasion treatment)	NACE				FM					
Superduplex ss (UNS S32750 to ASTM SA479)	NACE				EM					
Monel	NACE				GM					
Seal Surface Finish - 12th character										
Serrated	(Note 1)					1				
Smooth						2				
Capillary Protection - 13th character										
AISI 316 L ss armour							А			
AISI 316 L ss armour with PVC protective cover							В			

BASIC ORDERING INFORMATION model S2	6WA	S 2 6 W A X XX X XX X X	X	X	Х	Х	X
Capillary Length m (Feet) - 14th character							
1 (3)			А		cc	ontinue	ed
1.5 (5)			В		see	next p	age
2 (7)			С				
2.5 (8)			D				
3 (10)			E				
3.5 (12)			F				
4 (13)			G				
4.5 (15)			Н				
5 (17)			J				
5.5 (18)			К				
6 (20)			L				
6.5 (22)			Μ				
7 (23.5)			Ν				
7.5 (25)			Р				
8 (27)			Q				
9 (30)			R				
10 (33)			S				
12 (40)			Т				
14 (47)			U				
16 (53)			V				
Fill Fluid - 15th character							
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Р			
Inert oil - Galden G5	(Oxygen service)	(Note 2)		N			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 2)		D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С			
Mineral oil Esso Marcol 152	(FDA approved)	(Note 3)		W			
Vegetable oil Neobee M-20	(FDA approved)	(Note 3)		A			
Glycerin-water 70%	(FDA approved)	(Note 3)		В			

SIC ORDERING INFORMATION model S26WA S 2 6 W A X XX X XX X X X X X X X X X X X X X					
Flushing Ring: Hole and Thread - 16th character					
None			Ν		
1 hole - 1/2 in. NPT			2		
2 holes - 1/2 in. NPT			3		
1 hole - 1/4 in. NPT			4		
2 holes - 1/4 in. NPT			5		
Flushing Ring Material - 17th character					
None	(Note 4)			Ν	
AISI 316 L ss	(Note 5)	NACE		А	
Hastelloy C-276	(Notes 5, 6)	NACE		Н	
Flushing Ring: Plug and Gasket - 18th character					,
No plug - No gasket					Ν
No plug - garlock	(Note 5)				А
No plug - PTFE	(Note 5)				В
No plug - graphite	(Note 5)				С
AISI 316 L ss - no gasket	(Notes 5, 7)	NACE			D
AISI 316 L ss - garlock	(Notes 5, 7)	NACE			Е
AISI 316 L ss - PTFE	(Notes 5, 7)	NACE			F
AISI 316 L ss - graphite	(Notes 5, 7)	NACE			G
Hastelloy C-276 - no gasket	(Notes 5, 8)	NACE			Н
Hastelloy C-276 - garlock	(Notes 5, 8)	NACE			L
Hastelloy C-276 - PTFE	(Notes 5, 8)	NACE			Μ
Hastelloy C-276 - graphite	(Notes 5, 8)	NACE			Ρ

Note 1: Not available with diaphragm material code MM, LM, TM, NM, KM, YM, WM

Note 2: Suitable for oxygen service

Note 3: Suitable for food application

Note 4: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 5: Not available with Flushing ring: hole and thread code N

Note 6: Not available with Seal surface finish code 1

Note 7: Not available with Hastelloy C-276 flushing ring material code H

Note 8: Not available with AISI 316 L flushing ring material code A

BASIC ORDERING INFORMATION model S26WE Wafer diaphragm seal to EN 1092-1

Select one character or set of characters from each category and specify complete catalog number.

				9.0							
BASE MODEL - 1 st to 5 th characters		S 2 6 W E	Х	XX	Х	XX	Х	Х	Х	Х	Х
Wafer diaphragm seal to EN 1092-1											
Transmitter Side of Connection - 6th character									со	ntinue	əd
High pressure side			Н						see i	next p	bage
Low pressure side			L								
Mounting Flange Rating / Size - 7th and 8th characters											
EN 1092-1 DN 40				M5							
EN 1092-1 DN 50				N5							
EN 1092-1 DN 80				P5]						
Extensions Length and Material - 9th character											
Flush					F						
Diaphragm Material - 10 th and 11 th characters											
AISI 316 L ss		NACE				SM					
AISI 316 L ss - Low thickness		NACE				SL					
Hastelloy C-276		NACE				ΗМ					
Hastelloy C-276 - Low thickness		NACE				HL					
Hastelloy C-2000		NACE				MM					
Inconel 625		NACE				LM					
Tantalum						ΤM					
AISI 316 L ss gold plated		NACE				NM					
AISI 316 L ss with PFA anti-stick coating		NACE				КM					
Hastelloy C-276 with PFA anti-stick coating		NACE				ΥM					
AISI 316 L ss with PFA coating anti-corrosion and anti-stick		NACE				WM					
Diaflex (AISI with anti-abrasion treatment)		NACE				FM					
Superduplex ss (UNS S32750 to ASTM SA479)		NACE				EM					
Monel		NACE				GM					
Seal Surface Finish - 12th character											
Serrated	(Note 1)						1				
Smooth							2				
Form E - Spigot type	(Note 2)						4				
Form D - Groove type	(Note 3)						6				
Capillary Protection - 13th character											
AISI 316 L ss armour								А			
AISI 316 L ss armour with PVC protective cover								В			

BASIC ORDERING INFORMATION mod	del S26WE	S 2 6 W E X XX X	XX X X X	X	Х	Х	-
Capillary Length m (Feet) - 14th charact	ter						
1 (3)			А		C	ontinu	
1.5 (5)			В		see	next p	Ì
2 (7)			С				
2.5 (8)			D				
3 (10)			E				
3.5 (12)			F				
4 (13)			G				
4.5 (15)			Н				
5 (17)			J				
5.5 (18)			К				
6 (20)			L				
6.5 (22)			Μ				
7 (23.5)			Ν				
7.5 (25)			Р				
8 (27)			Q				
9 (30)			R				
10 (33)			S				
12 (40)			Т				
14 (47)			U				
16 (53)			V				
Fill Fluid - 15th character				1			
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Ρ			
Inert oil - Galden G5	(Oxygen service)	(Note 4)		Ν			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)		D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С			
Mineral oil Esso Marcol 152	(FDA approved)	(Note 5)		W			
Vegetable oil Neobee M-20	(FDA approved)	(Note 5)		А			
Glycerin-water 70%	(FDA approved)	(Note 5)		В			

BASIC ORDERING INFORMATION model S26WE	S 2 6 W	EXXXXXXXX	х х	Х	X
Flushing Ring: Hole and Thread - 16th character					
None			Ν		
1 hole - 1/2 in. NPT	(Note 6)		2		
2 holes - 1/2 in. NPT	(Note 6)		3		
1 hole - 1/4 in. NPT	(Note 6)		4		
2 holes - 1/4 in. NPT	(Note 6)		5		
Flushing Ring Material - 17th character					
None	(Note 7)			Ν	
AISI 316 L ss	(Note 8)	NACE		А	
Hastelloy C-276	(Notes 8, 9)	NACE		Н	
Flushing Ring: Plug and Gasket - 18th character					
No plug - No gasket					Ν
No plug - garlock	(Note 8)				А
No plug - PTFE	(Note 8)				В
No plug - graphite	(Note 8)				С
AISI 316 L ss - no gasket	(Notes 8, 10)	NACE			D
AISI 316 L ss - garlock	(Notes 8, 10)	NACE			Е
AISI 316 L ss - PTFE	(Notes 8, 10)	NACE			F
AISI 316 L ss - graphite	(Notes 8, 10)	NACE			G
Hastelloy C-276 - no gasket	(Notes 8, 11)	NACE			Н
Hastelloy C-276 - garlock	(Notes 8, 11)	NACE			L
Hastelloy C-276 - PTFE	(Notes 8, 11)	NACE			М
Hastelloy C-276 - graphite	(Notes 8, 11)	NACE			Ρ

Note 1: Not available with diaphragm material code MM, LM, TM, NM, KM, YM, WM

Note 2: Not available with diaphragm material code SM, HM, MM, LM, TM, NM, KM, YM, WM, FM, EM

Note 3: Not available with diaphragm material code SM, HM, HL, MM, LM, TM, NM, KM, YM, WM, FM, EM

Note 4: Suitable for oxygen service

Note 5: Suitable for food application

Note 6: Not available with Seal surface finish code 4, 6

Note 7: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 8: Not available with Flushing ring: hole and thread code N

Note 9: Not available with Seal surface finish code 1

Note 10: Not available with Hastelloy C-276 flushing ring material code H

Note 11: Not available with AISI 316 L flushing ring material code A

S26CN Model Chemical Tee remote diaphragm seal

The chemical tee remote seal is designed to connect to a Wedge Flow Element or to any process fitting with appropriate mating condition. Chemical tee elements cannot be connected to a standard ASME pipe flange.

Pressure limits

Seal model S26C	
2 MPa, 20 bar, 290 psi	

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Material	
PFA anti-stick coating	204 °C (400 °F)
PFA anti-corrosion and anti-stick coating	250 °C (482 °F)
PTFE gasket	-100 and 260 °C
	(-148 and 500 °F)
graphite gasket	-100 and 340 °C
	(-148 and 644 °F)

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26C Chemical Tee	Sensor URL	Seal error (process)	Remote system	1 metre capillary
seal size - Mnemonic			error (ambient)	error (ambient)
3 in P3	4 - 16 kPa, 16 - 64 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O
3 in P3	≥ 40 kPa, 160 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O

MULTIPLY BY 10 THE kPa VALUES TO OBTAIN mbar.



BASIC ORDERING INFORMATION model S26CN Chemical Tee diaphragm seal

Select one character or set of characters from each category and specify complete catalog number.

Chemical Tee seal Transmitter Side of Connection - 6 th character High pressure side H Low pressure side L Mounting Flange Rating / Size - 7 th and 8 th characters GP Integral with seal / 3 in. Proprietary GP Diaphragm Material - 9 th and 10 th characters GP AlSI 316 L ss NACE SM Hastelloy C-276 NACE HM AlSI 316 L ss with PFA anti-stick coating NACE YM AlSI 316 L ss with PFA anti-stick coating NACE YM AlSI 316 L ss with PFA coating anti-corrosion and anti-stick NACE YM AlSI 316 L ss armour A FM Capillary Protection - 11 th character A A AlSI 316 L ss armour with PVC protective cover B B Capillary Length m (Feet) - 12 th character A B 1.3 (5) A B
Transmitter Side of Connection - 6 th characters High pressure side L Low pressure side L Mounting Flange Rating / Size - 7 th and 8 th characters Integral with seal / 3 in. Proprietary GP Diaphragm Material - 9 th and 10 th characters AlSI 316 L ss NACE SM Hastelloy C-276 NACE HM AlSI 316 L ss with PFA anti-stick coating NACE YM Hastelloy C-276 with PFA anti-stick coating NACE YM AlSI 316 L ss with PFA coating anti-corrosion and anti-stick NACE YM AlSI 316 L ss with PFA coating anti-corrosion and anti-stick NACE WM Diaftex (AlSI with anti-abrasion treatment) NACE FM Capillary Protection - 11 th character A A AlSI 316 L ss armour with PVC protective cover B C Capillary Length m (Feet) - 12 th character A B (3) 1.5 (6) A B
High pressure side H Low pressure side L Mounting Flange Rating / Size - 7 ^m and 8 ^m characters Integral with seal / 3 in. Proprietary GP Diaphragm Material - 9 ^m and 10 ^m characters AlSI 316 L ss NACE SM Hastelloy C-276 NACE HM AlSI 316 L ss with PFA anti-stick coating NACE HM Hastelloy C-276 with PFA anti-stick coating NACE YM Hastelloy C-276 with PFA anti-stick coating NACE YM AlSI 316 L ss with PFA coating anti-corrosion and anti-stick NACE YM Diafherx (AISI with anti-abrasion treatment) NACE FM Capillary Protection - 11 th character A A AISI 316 L ss armour with PVC protective cover A B Capillary Length m (Feet) - 12 ^m character A B 1.3 (6) A B A
Low pressure sideLMounting Flange Rating / Size - 7th and 8th charactersIntegral with seal / 3 in. ProprietaryGPDiaphragm Material - 9th and 10th charactersAISI 316 L ssMastelloy C-276Math PFA anti-stick coatingAISI 316 L ss with PFA anti-stick coatingMACEMastelloy C-276 with PFA coating anti-corrosion and anti-stickMACEMist 316 L ss with PFA coating anti-corrosion and anti-stickMACEDiaflex (AISI with anti-abrasion treatment)NACECapillary Protection - 11th characterAISI 316 L ss armourAISI 316 L ss armour with PVC protective coverCapillary Length m (Feet) - 12th character1 (3)1.5 (5)A
Mounting Flange Rating / Size - 7th and 8th charactersIntegral with seal / 3 in. ProprietaryGPDiaphragm Material - 9th and 10th charactersAISI 316 L ssNACEHastelloy C-276NACEAISI 316 L ss with PFA anti-stick coatingNACEHastelloy C-276 with PFA coating anti-corrosion and anti-stickNACEDiafher (AISI with anti-abrasion treatment)NACEDiaflex (AISI with anti-abrasion treatment)NACEAISI 316 L ss armourAAISI 316 L ss armour with PVC protective coverAAISI 316 L ss armour with PVC protective coverAI (3)I (3)1.5 (5)A
Integral with seal / 3 in. Proprietary GP Diaphragm Material - 9th and 10th characters AISI 316 L ss NACE SM Hastelloy C-276 NACE HM AISI 316 L ss with PFA anti-stick coating NACE HM Hastelloy C-276 with PFA anti-stick coating NACE YM Hastelloy C-276 with PFA anti-stick coating NACE YM AISI 316 L ss with PFA coating anti-corrosion and anti-stick NACE WM Diaftex (AISI with anti-abrasion treatment) NACE FM Capillary Protection - 11th character AISI 316 L ss armour with PVC protective cover A AISI 316 L ss armour with PVC protective cover B A 1 (3) 1.5 (5) A B
Diaphragm Material - 9th and 10th charactersNACESMIAISI 316 L ssNACESMIIHastelloy C-276NACEHMIIAISI 316 L ss with PFA anti-stick coatingNACEKMIHastelloy C-276 with PFA anti-stick coating anti-corrosion and anti-stickNACEYMIAISI 316 L ss with PFA coating anti-corrosion and anti-stickNACEWMIDiaflex (AISI with anti-abrasion treatment)NACEFMICapillary Protection - 11th characterIAIAISI 316 L ss armourAAIAISI 316 L ss armour with PVC protective coverBICapillary Length m (Feet) - 12th characterA1 (3)AA1.5 (5)BI
AISI 316 L ssNACESMHastelloy C-276NACEHMAISI 316 L ss with PFA anti-stick coatingNACEKMHastelloy C-276 with PFA anti-stick coatingNACEYMAISI 316 L ss with PFA coating anti-corrosion and anti-stickNACEWMDiaflex (AISI with anti-abrasion treatment)NACEFMCapillary Protection - 11 th characterAAISI 316 L ss armourAAISI 316 L ss armour with PVC protective coverBCapillary Length m (Feet) - 12 th characterA1 (3)A1.5 (5)B
Hastelloy C-276NACEHMIII<
AISI 316 L ss with PFA anti-stick coating NACE KM Image: Coord output it is a coord output it is coord output it is a coord output it is a coor
Hastelloy C-276 with PFA anti-stick coatingNACEYMAISI 316 L ss with PFA coating anti-corrosion and anti-stickNACEWMDiaflex (AISI with anti-abrasion treatment)NACEFMCapillary Protection - 11th characterAAISI 316 L ss armourAAISI 316 L ss armour with PVC protective coverBCapillary Length m (Feet) - 12th characterA1 (3)A1.5 (5)B
AISI 316 L ss with PFA coating anti-corrosion and anti-stick NACE WM Diaflex (AISI with anti-abrasion treatment) NACE FM Capillary Protection - 11 th character A AISI 316 L ss armour A AISI 316 L ss armour with PVC protective cover B Capillary Length m (Feet) - 12 th character A 1 (3) A 1.5 (5) B
Diaflex (AISI with anti-abrasion treatment) NACE FM Capillary Protection - 11 th character A AISI 316 L ss armour A AISI 316 L ss armour with PVC protective cover B Capillary Length m (Feet) - 12 th character A 1 (3) A 1.5 (5) B
Capillary Protection - 11th character A AISI 316 L ss armour A AISI 316 L ss armour with PVC protective cover B Capillary Length m (Feet) - 12th character A 1 (3) A 1.5 (5) B
AISI 316 L ss armour A AISI 316 L ss armour with PVC protective cover B Capillary Length m (Feet) - 12 th character A 1 (3) A 1.5 (5) B
AISI 316 L ss armour with PVC protective cover B Capillary Length m (Feet) - 12 th character A 1 (3) A 1.5 (5) B
Capillary Length m (Feet) - 12 th character A 1 (3) A 1.5 (5) B
1 (3) A 1.5 (5) B
1.5 (5) B
2 (7) C
2.5 (8) D
3 (10) E
3.5 (12) F
4 (13) G
4.5 (15) H
5 (17) J
6 (20) L
7 (23.5) N
8 (27) Q
Fill Fluid - 13th character
Silicone oil PMX 200 10 cSt (-40 to 250 °C; -40 to 480 °F) S
Silicone oil Baysilone PD5 5 cSt (-85 to 250 °C; -121 to 480 °F) P
Inert oil - Galden G5 (Oxygen service) (Note 1) N
Inert oil - Halocarbon 4.2 (Oxygen service) (Note 1) D
Silicone oil for high temperature (-10 to 375 °C; 14 to 707 °F) G
Silicone polymer Syltherm XLT (-100 to 100 °C; -148 to 212 °F) C
Mineral oil Esso Marcol 152 (FDA approved) (Note 2) W
Vegetable oil Neobee M-20 (FDA approved) (Note 2) A
Glycerin-water 70% (FDA approved) (Note 2) B
Gasket - 14 th character
None 1
PTFE with silica filler 6
Graphite 7

Note 1: Suitable for oxygen service Note 2: Suitable for food application

S26RA, S26RE, S26RJ Rotating flange diaphragm seals (flush and extended)

These extended and flush diaphragm seal are designed to connect to flanged pipe fitting, according to ASME, EN or JIS standards. For liquid level measurement installations, the seal connects to a flanged tank nozzle, compliant to relevant standard. The sealing is provided by a selectable gasket seat surface finish. The mounting flange is of rotating type.

Pressure limits

Seal model S26RA	Carbon Steel flange	AISI 316 ss flange
to ASME B16.5	@ 100 °F (38 °C)	@ 100 °F (38 °C)
Class 150	285 psi	275 psi
Class 300	740 psi	720 psi
Class 600	1480 psi	1440 psi
Class 900	2220 psi	2160 psi
Class 1500	3705 psi	3600 psi

Seal model S26RE	Carbon steel flange	AISI 316 ss flange
to EN 1092-1	@ 120 °C	@ 20 °C
PN 16	16 bar	16 bar
PN 40	40 bar	40 bar
PN 63	63 bar	63 bar
PN 100	100 bar	100 bar

Seal model S26RJ	Carbon steel flange	AISI 316 ss flange
to JIS B 2220	@ 120 °C	@ 120 °C
10K	14 bar	14 bar
20K	36 bar	36 bar
40K	68 bar	68 bar

The pressure limit decreases with increasing temperature above the specified limit, according to the referred standards.

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table. Minimum pressure with tantalum diaphragm is 1 kPa abs, 10 mbar abs, 0.15 psia.

Flushing ring	Process limits				
gasket material	Pressure (max.)	Temperature	РхТ		
Garlock	6.9 MPa, 69 bar,	-73 and 204 °C	250000		
	1000 psi	(-100 and 400 °F)	(°F x psi)		
Graphite	2.5 MPa, 25 bar,	-100 and 380 °C			
	362 psi	(-148 and 716 °F)			
PTFE	6 MPa, 60 bar,	-100 and 250 °C			
	870 psi	(-148 and 482 °F)			

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Material	
Tantalum diaphragm	260 °C (500 °F)
PFA anti-stick coating	204 °C (400 °F)
PFA anti-corrosion and anti-stick coating	250 °C (482 °F)
AISI gold plated diaphragm	320 °C (608 °F)

Gasket seat finish

Smooth (ASME or EN): 0.8 μm (Ra) Serrated (ASME): 3.2 to 6.3 μm (Ra) Serrated (EN 1092-1 Type B1): 3.2 to 12.5 μm (Ra)

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26RA, S26RE, S26RJ	Sensor URL	Seal error (process)	Direct mount system	Remote system error	1 metre capillary
rotating flange			error (ambient)	(ambient)	error (ambient)
seal size - Mnemonic					
2 in. / DN 50 / A50 - P2	40 kPa, 160 inH2O	0.23 kPa, 0.92 inH2O	0.16 kPa, 0.64 inH2O	0.14 kPa, 0.56 inH2O	0.11 kPa, 0.44 inH2O
2 in. / DN 50 / A50 - P2	≥160 kPa, 642 inH2O	0.23 kPa, 0.92 inH2O	0.16 kPa, 0.64 inH2O	0.14 kPa, 0.56 inH2O	0.07 kPa, 0.28 inH2O
2 in. / DN 50 - F2	≥ 4 kPa, 16 inH2O	0.05 kPa, 0.2 inH2O	0.04 kPa, 0.16 inH2O	0.04 kPa, 0.16 inH2O	0.03 kPa, 0.12 inH2O
2 in. / DN 50 - E2	40 kPa, 160 inH2O	0.25 kPa, 1 inH2O	0.21 kPa, 0.84 inH2O	0.20 kPa, 0.80 inH2O	0.15 kPa, 0.60 inH2O
2 in. / DN 50 - E2	≥160 kPa, 642 inH2O	0.25 kPa, 1 inH2O	0.21 kPa, 0.84 inH2O	0.20 kPa, 0.80 inH2O	0.10 kPa, 0.40 inH2O
3 / 4 in. / DN 80 / 100	4 - 16 kPa, 16 - 64 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O
A80 / 100 - P3					
3 / 4 in. / DN 80 / 100	≥ 40 kPa, 160 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O
A80 / 100 - P3					
3 / 4 in. / DN 80 / 100 - F3	≥ 4 kPa, 16 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.01 kPa, 0.04 inH2O
3 in. / DN 80 - E3	≥ 4 kPa, 16 inH2O	0.14 kPa, 0.56 inH2O	0.05 kPa, 0.20 inH2O	0.05 kPa, 0.20 inH2O	0.04 kPa, 0.16 inH2O

MULTIPLY BY 10 THE kPa VALUES TO OBTAIN mbar.



Λ

50, 100, 150 mm (1.97, 3.94, 5.91)

Insert lenght available

158 (6.22)

	Dimensions mm. (in.) for S26RA										
Size/Rating	A (dia)										
	extended	flush dia	aphragm	flushing ring	B (dia)	C (dia)	D (dia)	E (dia)	F	G	N° of
	diaphragm	std.	low thick.	internal dia					(Note 1)		holes
2 in. ASME CL 150	48 (1.9)	60 (2.36)	58 (2.28)	62 (2.44)	92 (3.62)	120.65 (4.75)	152.4 (6)	19.1 (0.79)	17.5 (0.6)	9.5 (0.37)	4
2 in. ASME CL 300	48 (1.9)	60 (2.36)	58 (2.28)	62 (2.44)	92 (3.62)	127 (5)	165.1 (6.5)	19.1 (0.79)	20.8 (0.8)	9.5 (0.37)	8
2 in. ASME CL 600	NA	60 (2.36)	58 (2.28)	62 (2.44)	92 (3.62)	127 (5)	165.1 (6.5)	19.1 (0.79)	25.4 (1)	9.5 (0.37)	8
2 in. ASME CL 900	NA	60 (2.36)	58 (2.28)	62 (2.44)	92 (3.62)	165 (6.5)	215.9 (8.5)	26 (1.02)	38.1 (1.5)	9.5 (0.37)	8
2 in. ASME CL 1500	NA	60 (2.36)	58 (2.28)	62 (2.44)	92 (3.62)	165 (6.5)	215.9 (8.5)	26 (1.02)	38.1 (1.5)	9.5 (0.37)	8
3 in. ASME CL 150	72 (2.83)	89 (3.5)	75 (2.95)	92 (3.62)	127 (5)	152.4 (6)	190.5 (7.5)	19.1 (0.79)	22.4 (0.88)	9.5 (0.37)	4
3 in. ASME CL 300	72 (2.83)	89 (3.5)	75 (2.95)	92 (3.62)	127 (5)	168.15 (6.62)	209.6 (8.25)	22.4 (0.88)	26.9 (1.1)	9.5 (0.37)	8
3 in. ASME CL 600	NA	89 (3.5)	75 (2.95)	92 (3.62)	127 (5)	168.15 (6.62)	209.6 (8.25)	22.4 (0.88)	31.8 (1.3)	9.5 (0.37)	8
3 in. ASME CL 900	NA	89 (3.5)	75 (2.95)	92 (3.62)	127 (5)	190.5 (7.5)	241 (9.48)	26 (1.02)	38.1 (1.5)	9.5 (0.37)	8
3 in. ASME CL1500	NA	89 (3.5)	75 (2.95)	92 (3.62)	127 (5)	203.2 (8)	266.7 (10.5)	31.75 (1.25)	47.7 (1.88)	9.5 (0.37)	8
4 in. ASME CL 150	94 (3.7)	89 (3.5)	75 (2.95)	92 (3.62)	157.2 (6.2)	190.5 (7.5)	228.6 (9)	19.1 (0.79)	22.4 (0.88)	9.5 (0.37)	8
4 in. ASME CL 300	94 (3.7)	89 (3.5)	75 (2.95)	92 (3.62)	157.2 (6.2)	200.2 (7.88)	254 (10)	22 (0.86)	30.2 (1.19)	9.5 (0.37)	8

	Dimensions mm. (in.) for S26RE										
Size/Rating	A (dia)										
	extended	flush dia	aphragm	flushing ring	B (dia)	C (dia)	D (dia)	E (dia)	F	G	N° of
	diaphragm	std.	low thick.	internal dia					(Note 2)		holes
DN 50 EN PN 16	48 (1.9)	60 (2.36)	58 (2.28)	62 (2.44)	102 (4.02)	125 (4.92)	165 (6.5)	18 (0.71)	15 (0.58)	9.5 (0.37)	4
DN 50 EN PN 40	48 (1.9)	60 (2.36)	58 (2.28)	62 (2.44)	102 (4.02)	125 (4.92)	165 (6.5)	18 (0.71)	18 (0.71)	9.5 (0.37)	4
DN 50 EN PN 63	NA	60 (2.36)	58 (2.28)	62 (2.44)	102 (4.02)	135 (5.31)	180 (7.08)	22 (0.86)	23 (0.9)	9.5 (0.37)	4
DN 50 EN PN 100	NA	60 (2.36)	58 (2.28)	62 (2.44)	102 (4.02)	145 (5.71)	195 (7.67)	26 (1.02)	27 (1.06)	9.5 (0.37)	4
DN 80 EN PN 16	72 (2.83)	89 (3.5)	75 (2.95)	92 (3.62)	138 (5.43)	160 (6.3)	200 (7.87)	18 (0.71)	17 (0.67)	9.5 (0.37)	8
DN 80 EN PN 40	72 (2.83)	89 (3.5)	75 (2.95)	92 (3.62)	138 (5.43)	160 (6.3)	200 (7.87)	18 (0.71)	21 (0.83)	9.5 (0.37)	8
DN 80 EN PN 63	NA	89 (3.5)	75 (2.95)	92 (3.62)	138 (5.43)	170 (6.7)	215 (8.46)	22 (0.86)	25 (0.98)	9.5 (0.37)	8
DN 80 EN PN 100	NA	89 (3.5)	75 (2.95)	92 (3.62)	138 (5.43)	180 (7.08)	230 (9.05)	26 (1.02)	33 (1.3)	9.5 (0.37)	8
DN 100 EN PN 16	94 (3.7)	89 (3.5)	75 (2.95)	92 (3.62)	158 (6.22)	180 (7.08)	220 (8.66)	18 (0.71)	17 (0.67)	9.5 (0.37)	8
DN 100 EN PN 40	94 (3.7)	89 (3.5)	75 (2.95)	92 (3.62)	162 (6.38)	190 (7.48)	235 (9.25)	22 (0.86)	21 (0.83)	9.5 (0.37)	8

	Dimensions mm. (in.) for S26RJ										
Size/Rating	A (dia)	B (dia)	C (dia)	D (dia)	E (dia)	F	G	N° of			
	flush diaphragm					(Note 3)		holes			
A50 Class 10K	60 (2.36)	96 (3.78)	120 (4.72)	155 (6.1)	19 (0.75)	16 (0.63)	9.5 (0.37)	4			
A50 Class 20K	60 (2.36)	96 (3.78)	120 (4.72)	155 (6.1)	19 (0.75)	18 (0.71)	9.5 (0.37)	8			
A50 Class 40K	60 (2.36)	104.3 (4.11)	130 (5.12)	165 (6.5)	19 (0.75)	26 (1.02)	9.5 (0.37)	8			
A80 Class 10K	89 (3.5)	126 (4.96)	150 (5.91)	185 (7.28)	19 (0.75)	18 (0.71)	9.5 (0.37)	8			
A80 Class 20K	89 (3.5)	132 (5.2)	160 (6.3)	200 (7.87)	23 (0.91)	22 (0.87)	9.5 (0.37)	8			
A80 Class 40K	89 (3.5)	139.4 (5.49)	170 (6.69)	210 (8.27)	23 (0.91)	32 (1.26)	9.5 (0.37)	8			
A100 Class 10K	89 (3.5)	151 (5.94)	175 (6.89)	210 (8.27)	19 (0.75)	18 (0.71)	9.5 (0.37)	8			
A100 Class 20K	89 (3.5)	160 (6.3)	185 (7.28)	225 (8.86)	23 (0.91)	24 (0.94	9.5 (0.37)	8			

Note 1 - Flange thickness tolerance is +3.0 / -0.0 mm. (+0.12 / -0.0 in.). Note 2 - Flange thickness tolerance is +1.0 / -1.3 mm. (+0.04 / -0.05 in.) up to 18 mm. or ±1.5 mm. (±0.06 in.) from 18 to 50 mm. Note 3 - Flange thickness tolerance is +1.5 / -0.0 mm. (+0.06 / -0.0 in.) up to Class 20K or +2.0 / -0.0 mm. (+0.08 / -0.0 in.) from Class 20K to Class 50K.

BASIC ORDERING INFORMATION model S26RA Rotating flange diaphragm seals (flush and extended) to ASME B16.5

Select one character or set of characters from each category and specify complete catalog number. BASE MODEL - 1st to 5th characters S 2 6 R A Х XX Х х ΧХ Х Х Х Х Х Rotating flange diaphragm seal (Raised face flush and extended) to ASME B16.5 Transmitter Side of Connection - 6th character continued High pressure side Н see next page Low pressure side L Mounting Flange Rating / Size - 7th and 8th characters ASME CL 150 / 2 in. E1 ASME CL 300 / 2 in. E2 ASME CL 600 / 2 in. E3 ASME CL 900-1500 / 2 in. E5 ASME CL 150 / 3 in. G1 ASME CL 300 / 3 in. G2 ASME CL 600 / 3 in. G3 ASME CL 900 / 3 in. G4 ASME CL 1500 / 3 in. G5 ASME CL 150 / 4 in. H1 ASME CL 300 / 4 in. H2 Mounting Flange Material - 9th character Carbon steel С AISI 316 ss S Extensions Length and Material - 10th character Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastellov C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) З Hastelloy C-276 4 100 mm (4 in.) (Note 1) 150 mm (6 in.) AISI 316 L ss 5 (Note 1) 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11th and 12th characters NACE SM AISI 316 L ss (Note 2) AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE SL Hastelloy C-276 NACE ΗM Hastelloy C-276 - Low thickness (not for extended diaphragm) NACE HL (Note 3) NACE MM Hastelloy C-2000 (not for extended diaphragm) (Note 3) Hastelloy C-2000 diaphragm and body (not for extended diaphragm) (Note 3) NACE ΖM Inconel 625 (not for extended diaphragm) (Note 3) NACE LM Tantalum (not for extended diaphragm) ТΜ (Note 3) AISI 316 L ss gold plated (not for extended diaphragm) (Note 3) NACE NM AISI 316 L ss with PFA anti-stick coating NACE (Note 2) ΚM Hastelloy C-276 with PFA anti-stick coating NACE YΜ AISI 316 L ss with PFA coating anti-corrosion and anti-stick NACE WM (Note 2) Diaflex (AISI with anti-abrasion treatment) (Note 2) NACE FM Superduplex ss (UNS S32750 to ASTM SA479) (not for extended diaphragm) (Note 3) NACE ΕM Monel (not for extended diaphragm) NACE GΜ (Note 3)

BASIC ORDERING INFORMATION mo	del S26RA	S 2 6 R A X XX X X XX	Х	X	X	X	X	X	Х
Seal Surface Finish - 13th character									
Serrated		(Note 4)	1				coi	ntinue	d
Smooth		(Note 15)	2				see r	next pa	age
Capillary Protection - 14th character				J					
AISI 316 L ss armour				А					
AISI 316 L ss armour with PVC protect	ive cover			В					
Extension tube for direct mount seal		(Note 5)		Ν					
Capillary Length m (Feet) - 15th charac	ter								
Direct-mount construction		(Note 6)			1				
1 (3)		(Note 7)			А				
1.5 (5)		(Note 7)			В				
2 (7)		(Note 7)			С				
2.5 (8)		(Note 7)			D				
3 (10)		(Note 7)			Е				
3.5 (12)		(Note 7)			F				
4 (13)		(Note 7)			G				
4.5 (15)		(Note 7)			Н				
5 (17)		(Note 7)			J				
5.5 (18)		(Note 7)			К				
6 (20)		(Note 7)			L				
6.5 (22)		(Note 7)			М				
7 (23.5)		(Note 7)			Ν				
7.5 (25)		(Note 7)			Ρ				
8 (27)		(Note 7)			Q				
9 (30)		(Note 7)			R				
10 (33)		(Note 7)			S				
12 (40)		(Note 7)			Т				
14 (47)		(Note 7)			U				
16 (53)		(Note 7)			V				
Fill Fluid - 16th character						-			
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)					S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)					Ρ			
Inert oil - Galden G5	(Oxygen service)	(Note 8)				Ν			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 8)				D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)					G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)					С			
Mineral oil Esso Marcol 152	(FDA approved)	(Note 9)				W			
Vegetable oil Neobee M-20	(FDA approved)	(Note 9)				А			
Glycerin-water 70%	(FDA approved)	(Note 9)				В			

BASIC ORDERING INFORMATION model S26RA	S 2 6 R A	x xx x x x xx x x x x x	X	Х	Х
Flushing Ring: Hole and Thread - 17th character					
None (TO BE SELECTED FOR EXTENDED VERSIONS)			Ν		
1 hole - 1/2 in. NPT	(Note 3)		2		
2 holes - 1/2 in. NPT	(Note 3)		3		
1 hole - 1/4 in. NPT	(Note 3)		4		
2 holes - 1/4 in. NPT	(Note 3)		5		
Flushing Ring Material - 18th character					
None	(Note 10)			Ν	
AISI 316 L ss	(Note 11)	NACE		А	
Hastelloy C-276	(Notes 11, 12)	NACE		н	
Flushing Ring: Plug and Gasket - 19th character					
No plug - No gasket					Ν
No plug - garlock	(Note 11)				А
No plug - PTFE	(Note 11)				В
No plug - graphite	(Note 11)				С
AISI 316 L ss - no gasket	(Notes 11, 13)	NACE			D
AISI 316 L ss - garlock	(Notes 11, 13)	NACE			Е
AISI 316 L ss - PTFE	(Notes 11, 13)	NACE			F
AISI 316 L ss - graphite	(Notes 11, 13)	NACE			G
Hastelloy C-276 - no gasket	(Notes 11, 14)	NACE			Н
Hastelloy C-276 - garlock	(Notes 11, 14)	NACE			L
Hastelloy C-276 - PTFE	(Notes 11, 14)	NACE			М
Hastelloy C-276 - graphite	(Notes 11, 14)	NACE			Ρ

Note 1: Not available with mounting flange rating code E3, E5, G3, G4, G5

Note 2: Not available with extensions length and material code 2, 4, 6

Note 3: Not available with extensions length and material code 1, 2, 3, 4, 5, 6

Note 4: Not available with diaphragm material code MM, LM, TM, NM, KM, YM, WM

Note 5: Not available with transmitter side of connection code L

Note 6: Not available with capillary protection code A, B

Note 7: Not available with capillary protection code N

Note 8: Suitable for oxygen service

Note 9: Suitable for food application

Note 10: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 11: Not available with Flushing ring: hole and thread code N

Note 12: Not available with Seal surface finish code 1

Note 13: Not available with Hastelloy C-276 flushing ring material code H

Note 14: Not available with AISI 316 L flushing ring material code A

Note 15: Not available with diaphragm material code ZM

BASIC ORDERING INFORMATION model S26RE Rotating flange diaphragm seals (flush and extended) to EN 1092-1 Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL - 1** to 5** characters S 2 6 R E X <thx< th=""> X <thx< th=""> X<!--</th--><th></th></thx<></thx<>	
Rotating flange diaphragm seal (flush and extended) to EN 1092-1 Image: Continued of Connection - 6 th character High pressure side L High pressure side L Mounting Flange Rating / Size - 7 th and 8 th characters N2 PN 63 - 40 / DN 50 N2 PN 63 - 40 / DN 50 N3 PN 103 / DN 50 N4 PN 104 / DN 80 P1 PN 106 / DN 80 P2 PN 107 / DN 80 P3 PN 106 / DN 80 P4 PN 106 / DN 100 Q2 Mounting Flange Material - 9 th character C Carbon steel C ASI 316 s S Extensions Length and Material - 10 th character S Flass S Stom (2 in.) AISI 316 L ss (Note 1) 100 mm (4 in.) AISI 316 L ss (Note 1) 100 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 NACE SL	X
Transmitter Side of Connection - 6 th character H I	
High pressure side H L See next pag Mounting Flange Rating / Size - 7 ^m and 8 ^m characters N2 N2 N2 PN 16 - 40 / DN 50 N2 N2 N3 N4 PN 160 / DN 50 N3 N4 N4 N4 N4 PN 100 / DN 50 P1 P1 P1 P1 P1 P1 PN 100 / DN 80 P1 P1 P1 P1 P1 P1 P1 PN 160 / DN 80 P2 P3 P1	
Low pressure side L Mounting Flange Rating / Size - 7 ^m and 8 ^m characters N2 PN 16 - 40 / DN 50 N2 PN 63 / DN 50 N4 PN 100 / DN 50 N4 PN 100 / DN 80 P1 PN 40 / DN 80 P2 PN 100 / DN 80 P3 PN 100 / DN 80 P3 PN 100 / DN 80 Q1 PN 16 / DN 100 Q2 Mounting Flange Material - 9 ^m character C Carbon steel C Alsi 316 as S Extensions Length and Material - 10 ^m character F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) AISI 316 L ss (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 4 160 mm (6 in.) Hastelloy C-276 NACE SM AISI 316 L ss (Note 1) 5 5 150 mm (6 in.) Hastelloy C-276 NACE SM AISI 316 L ss (Note 1) 6 5 <t< td=""><td></td></t<>	
Mounting Flange Rating / Size - 7" and 8" characters N2 PN 63 / DN 50 N2 PN 163 / DN 50 N4 PN 100 / DN 50 N4 PN 100 / DN 80 P1 PN 40 / DN 80 P2 PN 63 / DN 80 P2 PN 63 / DN 80 P3 PN 100 / DN 80 P3 PN 100 / DN 80 P3 PN 100 / DN 80 P4 PN 100 / DN 80 P3 PN 100 / DN 80 P3 PN 100 / DN 100 Q2 Mounting Flange Material - 9" character C Carbon steel C Carbon steel S Extensions Length and Material - 10" character F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) AISI 316 L ss (Note 1) 3 100 mm (4 in.) AISI 316 L ss (Note 1) 3 100 mm (6 in.) Hastelloy C-276 (Note 1) 6 150 mm (6 in.) Hastelloy C-276 NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) NACE SM <	
PN 16 - 40 / DN 50 N2 N2 PN 63 / DN 50 N3 N1 PN 100 / DN 50 N4 N1 PN 16 / DN 80 P1 P1 PN 40 / DN 80 P2 N2 PN 63 / DN 80 P3 P2 PN 63 / DN 80 P3 P1 PN 100 / DN 80 P3 P4 PN 16 / DN 100 Q2 Q1 PN 16 / DN 100 Q2 Q2 Mounting Flange Material - 9 th character C Carbon steel C S Extensions Length and Material - 10 th character S Flush C S Extensions Longth and Material - 10 th character F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 NACE SM <td< td=""><td></td></td<>	
PN 63 / DN 50 N3 N3 N3 N4 PN 100 / DN 50 N4 P1 N4 P1 PN 100 / DN 80 P1 P1 P1 P1 PN 63 / DN 80 P2 P2 P1 PN 100 / DN 80 P4 P1 P1 P1 PN 100 / DN 80 P4 P4 P1 P1 P1 PN 100 / DN 80 P4 P4 P1 P1 P1 P1 PN 100 / DN 80 P4 P4 P1 P1 <td></td>	
PN 100 / DN 50 N4 P1 PN 16 / DN 80 P1 PN 40 / DN 80 P2 PN 63 / DN 80 P3 PN 100 / DN 80 P3 PN 100 / DN 80 P4 PN 16 / DN 100 Q2 Mounting Flange Material - 9 th character Q2 Mounting Flange Material - 9 th character C Carbon steel C AISI 316 ss S Extensions Length and Material - 10 th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 100 mm (4 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaptragm Material - 11 th and 12 th characters F 1 AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE SI AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE H	
PN 16 / DN 80 P1 P1 P2 PN 40 / DN 80 P2 P3 P1 PN 63 / DN 80 P3 P3 P3 PN 100 / DN 80 P4 P4 P4 PN 16 / DN 100 Q1 Q1 PN 40 / DN 100 Q2 Q1 PN 40 / DN 100 Q2 Q2 Mounting Flange Material - 9 th character C Carbon steel C S AISI 316 ss S S Extensions Length and Material - 10 th character F Flush F S 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) AISI 316 L ss (Note 1) 2 100 mm (4 in.) Hastelloy C-276 (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 th characters K1 5 AISI 316 L ss (Note 2) NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) (Note	
PN 40 / DN 80 P2 P2 P2 PN 63 / DN 80 P3 P3 PN 100 / DN 80 P4 P4 PN 16 / DN 100 Q1 Q1 PN 40 / DN 100 Q2 Q2 Mounting Flange Material - 9 ^m character Q2 Carbon steel C C AISI 316 ss S S Extensions Length and Material - 10 ^m character F Flush F F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 ^m characters F M AISI 316 L ss - Low thickness (not for extended diaph ragm) (Note 3) NACE SL Hastelloy C-276 Low thickness (not for extended diaph ragm) NACE HL	
PN 63 / DN 80 P3 P3 P3 P4 PN 100 / DN 80 P4 P4 P4 P4 P4 P1 PN 16 / DN 100 Q2 Q2 Q2 Q2 Mounting Flange Material - 9 th character Q2 Q2 Mounting Flange Material - 9 th character C C AISI 316 ss S S Extensions Length and Material - 10 th character F Flush F S 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 Diaphragm Material - 11 th and 12 th characters INACE SM AISI 316 L ss (Note 1) 5 5 AISI 316 L ss NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE	
PN 100 / DN 80 P4 P1 PN 16 / DN 100 Q1 PN 40 / DN 100 Q2 Mounting Flange Material - 9th character Q2 Carbon steel C AISI 316 ss S Extensions Length and Material - 10th character C Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) Hastelloy C-276 (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 NACE SM AISI 316 L ss (Note 2) NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE	
PN 16 / DN 100 Q1 PN 40 / DN 100 Q2 Mounting Flange Material - 9 th character C Carbon steel C AISI 316 ss S Extensions Length and Material - 10 th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) Hastelloy C-276 (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 th characters Kote 2) NACE SM AISI 316 L ss (Note 2) NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE SL Hastelloy C-276 NACE HM Hastelloy C-276 HM	
PN 40 / DN 100 Q2 Mounting Flange Material - 9 th character C Carbon steel C AISI 316 ss S Extensions Length and Material - 10 th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) AISI 316 L ss (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 3 100 mm (4 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 5 151 mm (6 in.) Hastelloy C-276 NACE SM AISI 316 L ss (Note 1) 6 SM AISI 316 L ss Low thickness (not for extended diaphragm) (Note 3) NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) (Note 3) NACE HM Hastelloy C-276 NACE HM HM	
Mounting Flange Material - 9th character C Carbon steel C AISI 316 ss S Extensions Length and Material - 10th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 3 100 mm (6 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11th and 12th characters Kote 2 NACE SM AISI 316 L ss (Note 2) NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) (Note 3) NACE HM Hastelloy C-276 Low thickness (not for extended diaphragm) (Note 3) NACE HM	
Carbon steel C AISI 316 ss S Extensions Length and Material - 10 th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) Hastelloy C-276 (Note 1) 3 100 mm (4 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 th characters Kote 2) NACE SM AISI 316 L ss (Note 2) NACE SM AISI 316 L ss (Note 2) NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) (Note 3) NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE SL Hastelloy C-276 NACE HM Hastelloy C-276 HM	
AISI 316 ss S Extensions Length and Material - 10 th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) Hastelloy C-276 (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 th characters (Note 2) NACE SM AISI 316 L ss (Note 2) NACE SL AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE SL Hastelloy C-276 NACE HM Hastelloy C-276 HM	
Extensions Length and Material - 10 th character F Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 4 150 mm (6 in.) AISI 316 L ss (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 th characters Kisi 316 L ss NACE AISI 316 L ss Low thickness (not for extended diaphragm) NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) NACE HM Hastelloy C-276 Low thickness (not for extended diaphragm) Note 3) NACE HL	
Flush F 50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11th and 12th characters AISI 316 L ss (Note 2) NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE HM Hastelloy C-276 Low thickness (not for extended diaphragm) (Note 3) NACE HL	
50 mm (2 in.) AISI 316 L ss (Note 1) 1 50 mm (2 in.) Hastelloy C-276 (Note 1) 2 100 mm (4 in.) AISI 316 L ss (Note 1) 3 100 mm (4 in.) Hastelloy C-276 (Note 1) 4 150 mm (6 in.) Hastelloy C-276 (Note 1) 5 150 mm (6 in.) AISI 316 L ss (Note 1) 5 150 mm (6 in.) Hastelloy C-276 (Note 1) 6 Diaphragm Material - 11 th and 12 th characters AISI 316 L ss (Note 2) NACE SM AISI 316 L ss Low thickness (not for extended diaphragm) (Note 3) NACE SL Hastelloy C-276 Low thickness (not for extended diaphragm) (Note 3) NACE HM Hastelloy C-276 - Low thickness (not for extended diaphragm) (Note 3) NACE HL	
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Diaphragm Material - 11th and 12th characters AISI 316 L ss (Note 2) NACE SM AISI 316 L ss - Low thickness (not for extended diaphragm) (Note 3) NACE SL Hastelloy C-276 NACE HM Hastelloy C-276 - Low thickness (not for extended diaphragm) (Note 3) NACE HL	
AISI 316 L ss(Note 2)NACESMAISI 316 L ss - Low thickness (not for extended diaphragm)(Note 3)NACESLHastelloy C-276NACEHMHastelloy C-276 - Low thickness (not for extended diaphragm)(Note 3)NACEHL	
AISI 316 L ss - Low thickness (not for extended diaphragm)(Note 3)NACESLHastelloy C-276NACEHMHastelloy C-276 - Low thickness (not for extended diaphragm)(Note 3)NACEHL	
Hastelloy C-276NACEHMHastelloy C-276 - Low thickness (not for extended diaphragm)(Note 3)NACEHL	
Hastelloy C-276 - Low thickness (not for extended diaphragm) (Note 3) NACE HL	
Hastelloy C-2000 (not for extended diaphragm)(Note 3)NACEMM	
Inconel 625 (not for extended diaphragm) (Note 3) NACE LM	
Tantalum (not for extended diaphragm)(Note 3)TM	
AISI 316 L ss gold plated (not for extended diaphragm) (Note 3) NACE NM	
AISI 316 L ss with PFA anti-stick coating (Note 2) NACE KM	
Hastelloy C-276 with PFA anti-stick coating NACE YM	
AISI 316 L ss with PFA coating anti-corrosion and anti-stick (Note 2) NACE WM	
Diaflex (AISI with anti-abrasion treatment) (Note 2) NACE FM	
Superduplex ss (UNS S32750 to ASTM SA479) (not for extended diaphragm) (Note 3) NACE EM	
Monel (Note 3) NACE GM	

BASIC ORDERING INFORMATION model	S26RE	S 2 6 R E X XX X X XX	Х	Х	X	X	X	X	Х
Seal Surface Finish - 13th character									
Serrated		(Note 4)	1				со	ntinue	d
Smooth			2				see i	next pa	age
Capillary Protection - 14th character				1					
AISI 316 L ss armour				А					
AISI 316 L ss armour with PVC protective	cover			В					
Extension tube for direct mount seal		(Note 5)		Ν					
Capillary Length m (Feet) - 15th character									
Direct-mount construction		(Note 6)			1				
1 (3)		(Note 7)			А				
1.5 (5)		(Note 7)			В				
2 (7)		(Note 7)			С				
2.5 (8)		(Note 7)			D				
3 (10)		(Note 7)			Е				
3.5 (12)		(Note 7)			F				
4 (13)		(Note 7)			G				
4.5 (15)		(Note 7)			Н				
5 (17)		(Note 7)			J				
5.5 (18)		(Note 7)			К				
6 (20)		(Note 7)			L				
6.5 (22)		(Note 7)			М				
7 (23.5)		(Note 7)			Ν				
7.5 (25)		(Note 7)			Ρ				
8 (27)		(Note 7)			Q				
9 (30)		(Note 7)			R				
10 (33)		(Note 7)			S				
12 (40)		(Note 7)			Т				
14 (47)		(Note 7)			U				
16 (53)		(Note 7)			V				
Fill Fluid - 16th character									
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)					S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)					Р			
Inert oil - Galden G5	(Oxygen service)	(Note 8)				Ν			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 8)				D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)					G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)					С			
Mineral oil Esso Marcol 152	(FDA approved)	(Note 9)				W			
Vegetable oil Neobee M-20	(FDA approved)	(Note 9)				А			
Glycerin-water 70%	(FDA approved)	(Note 9)				В			

BASIC ORDERING INFORMATION model S26RE	S 2 6 R E	x xx x x x x x x	хх х	X	X
Flushing Ring: Hole and Thread - 17th character					
None (TO BE SELECTED FOR EXTENDED VERSIONS)			Ν		
1 hole - 1/2 in. NPT	(Note 3)		2		
2 holes - 1/2 in. NPT	(Note 3)		3		
1 hole - 1/4 in. NPT	(Note 3)		4		
2 holes - 1/4 in. NPT	(Note 3)		5		
Flushing Ring Material - 18th character				,	
None	(Note 10)			Ν	
AISI 316 L ss	(Note 11)	NACE		А	
Hastelloy C-276	(Notes 11, 12)	NACE		Н	
Flushing Ring: Plug and Gasket - 19th character					1
No plug - No gasket					Ν
No plug - garlock	(Note 11)				А
No plug - PTFE	(Note 11)				В
No plug - graphite	(Note 11)				С
AISI 316 L ss - no gasket	(Notes 11, 13)	NACE			D
AISI 316 L ss - garlock	(Notes 11, 13)	NACE			Е
AISI 316 L ss - PTFE	(Notes 11, 13)	NACE			F
AISI 316 L ss - graphite	(Notes 11, 13)	NACE			G
Hastelloy C-276 - no gasket	(Notes 11, 14)	NACE			Н
Hastelloy C-276 - garlock	(Notes 11, 14)	NACE			L
Hastelloy C-276 - PTFE	(Notes 11, 14)	NACE			Μ
Hastelloy C-276 - graphite	(Notes 11, 14)	NACE			Ρ

Note 1: Not available with mounting flange rating code N3, N4, P3, P4

Note 2: Not available with extensions length and material code 2, 4, 6

Note 3: Not available with extensions length and material code 1, 2, 3, 4, 5, 6

Note 4: Not available with diaphragm material code MM, LM, TM, NM, KM, YM, WM

Note 5: Not available with transmitter side of connection code L

Note 6: Not available with capillary protection code A, B

Note 7: Not available with capillary protection code N

Note 8: Suitable for oxygen service

Note 9: Suitable for food application

Note 10: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 11: Not available with Flushing ring: hole and thread code N

Note 12: Not available with Seal surface finish code 1

Note 13: Not available with Hastelloy C-276 flushing ring material code H

Note 14: Not available with AISI 316 L flushing ring material code A

BASIC ORDERING INFORMATION model S26RJ Rotating flange diaphragm seals (flush) to JIS

Select one character or set of characters from each category and specify complete catalog number.

	yory and spe			lete	Jalan	Jy nu	innbe	· ·					
BASE MODEL - 1 st to 5 th characters	S 2 6 R J	X	XX	X	X	ХХ	Х	Х	Х	Х	Х	Х	Х
Rotating flange diaphragm seal (flush) to JIS													
Transmitter Side of Connection - 6th character										CC	ntinue	ed	
High pressure side		Н								see	next p	age	
Low pressure side		L											
Mounting Flange Rating / Size - 7th and 8th characters													
10K / A50			B2										
20K / A50			B4										
40K / A50			B6										
10K / A80			C2										
20K / A80			C4										
40K / A80			C6										
10K / A100			D2										
20K / A100			D4										
Mounting Flange Material - 9th character													
Carbon steel				С									
AISI 316 ss				S]								
Extensions Length - 10th character													
Flush					F								
Diaphragm Material - 11th and 12th characters													
AISI 316 L ss		NA	CE			SM							
Hastelloy C-276		NA	CE			ΗM							
Hastelloy C-2000		NA	CE			MM							
Inconel 625		NA	CE			LM							
Tantalum						ТМ							
AISI 316 L ss gold plated		NA	CE			NM							
AISI 316 L ss with PFA anti-stick coating		NA	CE			КM							
Hastelloy C-276 with PFA anti-stick coating		NA	CE			ΥM							
AISI 316 L ss with PFA coating anti-corrosion and anti-stick		NA	CE			WM							
Superduplex ss (UNS S32750 to ASTM SA479)		NA	CE			EM							
Seal Surface Finish - 13th character													
Serrated (Note 1)							1						
Smooth							2						
Capillary Protection - 14th character													
AISI 316 L ss armour								А					
AISI 316 L ss armour with PVC protective cover								В					
Extension tube for direct mount seal (Note 2)								Ν					

BASIC ORDERING INFORMATION r	nodel S26RJ	S 2 6 R J X XX X X XX X X	Х	X	X	X
Capillary Length m (Feet) - 15th char	racter					
Direct-mount construction		(Note 3)	1			
1 (3)		(Note 4)	А			
1.5 (5)		(Note 4)	В			
2 (7)		(Note 4)	С		-	
2.5 (8)		(Note 4)	D			
3 (10)		(Note 4)	Е			
3.5 (12)		(Note 4)	F			
4 (13)		(Note 4)	G			
4.5 (15)		(Note 4)	Н			
5 (17)		(Note 4)	J			
5.5 (18)		(Note 4)	К			
6 (20)		(Note 4)	L			
6.5 (22)		(Note 4)	М			
7 (23.5)		(Note 4)	Ν			
7.5 (25)		(Note 4)	Р			
8 (27)		(Note 4)	Q			
9 (30)		(Note 4)	R			
10 (33)		(Note 4)	S			
12 (40)		(Note 4)	Т			
14 (47)		(Note 4)	U			
16 (53)		(Note 4)	V			
Fill Fluid - 16th character				1		
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S		
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Ρ		
Inert oil - Galden G5	(Oxygen service)	(Note 5)		Ν		
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 5)		D		
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G		
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С		
Mineral oil Esso Marcol 152	(FDA approved)	(Note 6)		W		
Vegetable oil Neobee M-20	(FDA approved)	(Note 6)		А		
Glycerin-water 70%	(FDA approved)	(Note 6)		В		
Flushing Ring: Hole and Thread - 17	7 th character				1	
None					Ν	
Flushing Ring Material - 18th charact	ter					1
None						Ν
Flushing Ring: Plug and Gasket - 19	9 th character					
None						

Note 1: Not available with diaphragm material code HM, MM, LM, TN, NM, KM, YM, WM Note 2: Not available with transmitter side of connection code L

Note 3: Not available with capillary protection code A, B Note 4: Not available with capillary protection code N

Note 5: Suitable for oxygen service Note 6: Suitable for food application

S26RR Rotating flange diaphragm seals - Ring Joint (RJ)

This flush diaphragm seal is designed to connect to ASME flanged pipe fitting, the sealing is provided by a metal ring in the provided groove. For liquid level measurement installations the seal connects to an ASME flanged tank nozzle.

Pressure limits

Seal model S26RR	Carbon Steel flange	AISI 316 ss flange
to ASME B16.5	@ 100 °F (38 °C)	@ 100 °F (38 °C)
Class 150	285 psi	275 psi
Class 300	740 psi	720 psi
Class 600	1480 psi	1440 psi
Class 900	2220 psi	2160 psi
Class 1500	3705 psi	3600 psi
Class 2500	6170 psi	6000 psi

The pressure limit decreases with increasing temperature above 100 $^{\circ}$ F (38 $^{\circ}$ C), according to ASME B16.5 standards.

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table

Temperature effect

The following table shows temperature effect per 20 K (36 $^{\circ}$ F) change, detailed separately for

a) the seal (one element), as process temperature errorb) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26RR flanged RJ	Sensor URL	Seal error (process)	Direct mount system	Remote mount	1 metre capillary
seal size - Mnemonic			error (ambient)	error (ambient)	error (ambient)
1 1/2 in P1.5	≥ 160 kPa, 642 inH2O	0.74 kPa, 3 inH2O	0.67 kPa, 2.68 inH2O	0.62 kPa, 2.48 inH2O	0.31 kPa, 1.24 inH2O
2 in P2	40 kPa, 160 inH2O	0.23 kPa, 0.92 inH2O	0.16 kPa, 0.64 inH2O	0.14 kPa, 0.56 inH2O	0.11 kPa, 0.44 inH2O
2 in P2	≥160 kPa, 642 inH2O	0.23 kPa, 0.92 inH2O	0.16 kPa, 0.64 inH2O	0.14 kPa, 0.56 inH2O	0.07 kPa, 0.28 inH2O
3 in P3	4 - 16 kPa, 16 - 64 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O
3 in P3	≥ 40 kPa, 160 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O

MULTIPLY BY 10 THE kPa VALUES TO OBTAIN mbar.



				Dimensio	ns mm. (in.) f	for S26RR											
Size/Rating	A (dia)	B (dia)	C (dia)	D (dia)	E (dia)	F	G	H (dia)	R	N° of							
										holes							
1-1/2 in. ASME CL 150	48 (1.89)	83 (3.27)	98.6 (3.88)	127 (5)	15.75 (0.62)	17.5 (0.69)	17.3 (0.68)	65.1 (2.56)	R19	4							
1-1/2 in. ASME CL 300	48 (1.89)	90 (3.54)	114.3 (4.5)	155.5 (6.12)	22.35 (0.88)	20.6 (0.81)	17.3 (0.68)	68.3 (2.69)	R20	4							
1-1/2 in. ASME CL 600	48 (1.89)	90 (3.54)	114.3 (4.5)	155.5 (6.12)	22.35 (0.88)	22.4 (0.88)	17.3 (0.68)	68.3 (2.69)	R20	4							
1-1/2 in. ASME CL 900/1500	48 (1.89)	92 (3.62)	124 (4.88)	177.8 (7)	28.45 (1.12)	31.8 (1.25)	20.8 (0.82)	68.3 (2.69)	R20	4							
1-1/2 in. ASME CL 2500	48 (1.89)	114 (4.49)	146.1 (5.75)	203.2 (8)	31.75 (1.25)	44.5 (1.75)	20.8 (0.82)	82.6 (3.25)	R23	4							
2 in. ASME CL 150	60 (2.36)	102 (4.02)	120.65 (4.75)	152.4 (6)	19.05 (0.75)	19.05 (0.75)	17.3 (0.68)	82.6 (3.25)	R22	4							
2 in. ASME CL 300	60 (2.36)	108 (4.25)	127 (5)	165.1 (6.5)	19.05 (0.75)	22.35 (0.88)	17.3 (0.68)	82.6 (3.25)	R23	8							
2 in. ASME CL 600	60 (2.36)	108 (4.25)	127 (5)	165.1 (6.5)	19.05 (0.75)	25.4 (1)	17.3 (0.68)	82.6 (3.25)	R23	8							
2 in. ASME CL 900/1500	60 (2.36)	124 (4.88)	165 (6.5)	215.9 (8.5)	25.4 (1)	38.1 (1.5)	20.8 (0.82)	95.3 (3.75)	R24	8							
2 in. ASME CL 2500	60 (2.36)	133 (5.24)	171.5 (6.75)	235 (9.25)	28.45 (1.12)	50.8 (2)	20.8 (0.82)	101.6 (4)	R26	8							
3 in. ASME CL 150	89 (3.5)	133 (5.24)	152.4 (6)	190.5 (7.5)	19.05 (0.75)	23.87 (0.94)	17.3 (0.68)	114.3 (4.5)	R29	4							
3 in. ASME CL 300	89 (3.5)	146 (5.75)	168.15 (6.62)	209.55 (8.25)	22.35 (0.88)	28.44 (1.12)	17.3 (0.68)	123.8 (4.87)	R31	8							
3 in. ASME CL 600	89 (3.5)	146 (5.75)	168.15 (6.62)	209.55 (8.25)	22.35 (0.88)	31.75 (1.25)	17.3 (0.68)	123.8 (4.87)	R31	8							
3 in. ASME CL 900	89 (3.5)	155 (6.10)	190.5 (7.5)	241.3 (9.5)	25.4 (1)	38.1 (1.50)	20.8 (0.82)	123.8 (4.87)	R31	8							
3 in. ASME CL 1500	89 (3.5)	168 (6.61)	203.2 (8)	266.7 (10.5)	31.75 (1.25)	47.8 (1.88)	20.8 (0.82)	136.5 (5.37)	R35	8							
3 in. ASME CL 2500	89 (3.5)	168 (6.61)	228.6 (9)	304.8 (12)	35.05 (1.38)	66.5 (2.62)	20.8 (0.82)	127 (5)	R32	8							

BASIC ORDERING INFORMATION model S26RR Rotating flange diaphragm seals (flush) - Ring Joint

Select one character or set of characters from each category and specify complete catalog number.

		Uny c	Joinip	1010	Julun	<u>g na</u>	111001						
BASE MODEL - 1 st to 5 th characters	S 2 6 R R	Х	ХХ	Х	Х	XX	X	X	Х	Х	X	x	Х
Rotating flange diaphragm seal (flush) Ring Joint to ASME B16.5]											
Transmitter Side of Connection - 6th character										CO	ntinue	d	
High pressure side		Н								see	next p	age	
Low pressure side		L											
Mounting Flange Rating / Size - 7th and 8th characters													
ASME CL 150 / 1 1/2 in.			D1										
ASME CL 300 / 1 1/2 in.			D2										
ASME CL 600 / 1 1/2 in.			D3										
ASME CL 900-1500 / 1 1/2 in.			D5										
ASME CL 2500 / 1 1/2 in.			D6										
ASME CL 150 / 2 in.			E1										
ASME CL 300 / 2 in.			E2										
ASME CL 600 / 2 in.			E3										
ASME CL 900-1500 / 2 in.			E5										
ASME CL 2500 / 2 in.			E6										
ASME CL 150 / 3 in.			G1										
ASME CL 300 / 3 in.			G2										
ASME CL 600 / 3 in.			G3										
ASME CL 900 / 3 in.			G4										
ASME CL 1500 / 3 in.			G5										
ASME CL 2500 / 3 in.			G6										
Mounting Flange Material - 9 th character													
Carbon steel				С									
AISI 316 ss				S									
Extensions Length - 10th character													
Flush					F								
Diaphragm Material - 11 th and 12 th characters													
AISI 316 L ss			NA	CE		SM							
Hastelloy C-276			NA	CE		НМ							
Inconel 625			NA	CE		LM							
Seal Surface Finish - 13th character													
Ring joint							3						
Capillary Protection - 14th character													
AISI 316 L ss armour								А					
AISI 316 L ss armour with PVC protective cover								В					
Extension tube for direct mount seal (Note 1)								Ν					

BASIC ORDERING INFORMATION	N model S26RR	S 2 6 R R X 2	XX X X XX X X X	Х	Х	Х	X
Capillary Length m (Feet) - 15th cl	naracter						
Direct-mount construction		(Note 2)	1				
1 (3)		(Note 3)	А				
1.5 (5)		(Note 3)	В				
2 (7)		(Note 3)	С				
2.5 (8)		(Note 3)	D				
3 (10)		(Note 3)	E				
3.5 (12)		(Note 3)	F				
4 (13)		(Note 3)	G				
4.5 (15)		(Note 3)	Н				
5 (17)		(Note 3)	J				
5.5 (18)		(Note 3)	К				
6 (20)		(Note 3)	L				
6.5 (22)		(Note 3)	М				
7 (23.5)		(Note 3)	N				
7.5 (25)		(Note 3)	Р				
8 (27)		(Note 3)	Q				
9 (30)		(Note 3)	R				
10 (33)		(Note 3)	S				
12 (40)		(Note 3)	Т				
14 (47)		(Note 3)	U				
16 (53)		(Note 3)	V				
Fill Fluid - 16th character							
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Ρ			
Inert oil - Galden G5	(Oxygen service)	(Note 4)		Ν			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)		D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С			
Mineral oil Esso Marcol 152	(FDA approved)	(Note 5)		W			
Vegetable oil Neobee M-20	(FDA approved)	(Note 5)		А			
Glycerin-water 70%	(FDA approved)	(Note 5)		В			
Flushing Ring: Hole and Thread -	17 th character				J		
None					Ν		
Flushing Ring Material - 18th char	acter					1	
None						Ν	
Flushing Ring: Plug and Gasket -	19 th character						1
None							Ν

Note 1: Not available with transmitter side of connection code L and not available with CL 2500 mounting flange rating / size code D6, E6, G6

Note 2: Not available with capillary protection code A, B

Note 3: Not available with capillary protection code N, Note 4: Suitable for oxygen service

Note 5: Suitable for food application

2600T Series Pressure transmitters S26XX seal models | DS/S26-EN Rev. I 31

S26RH Rotating flange diaphragm seals according to ISO 10423 (based on API 6A specification)

This flush diaphragm seal is designed to connect to ISO 10423 flanged pipe fitting, the sealing is provided by a metal ring in the provided groove. For liquid level measurement installations the seal connects to proper flanged tank nozzle. This seal type is mainly dedicated to applications asking for high pressure/high temperature conditions.

Pressure limits

S26RH seal	26RH seal AISI 316 ss flange					
flange rating	-29 38 °c (-20 100 °F)	@ 93 °C (200 °C)				
API 10000	69.5 MPa, 10000 psi	60 MPa, 8687 psi				
API 15000	103.5 MPa, 15000 psi	89.2 MPa, 12937 psi				

The pressure limit decreases with increasing temperature.

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature errorb) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26RH flanged seal	Sensor URL	Seal error (process)	Direct mount system	Remote mount	1 metre capillary
size - Mnemonic			error (ambient)	error (ambient)	error (ambient)
1 13/16 in H1.5	≥ 70000 kPa, 10150 psi	0.74 kPa, 3 inH2O	0.67 kPa, 2.68 inH2O	0.62 kPa, 2.48 inH2O	0.31 kPa, 1.24 inH2O
2 1/16 in P1.5	≥ 70000 kPa, 10150 psi	0.64 kPa, 2.56 inH2O	1.25 kPa, 5.0 inH2O	1.14 kPa, 0.08 inH2O	0.38 kPa, 1.52 inH2O

MULTIPLY BY 10 THE kPa VALUES TO OBTAIN mbar.



		Dimensions mm. (in.) for S26RH										
Size/Rating	A (dia)	B (dia)	C (dia)	D (dia)	E (dia)	F	G	H (dia)	BX	N° of		
										holes		
1 13/16 in. API 10000	40 (1.57)	105.5 (4.15)	146.1 (5.75)	185 (7.28)	23 (0.91)	42.1 (1.66)	25 (0.98)	77.77 (3.06)	BX 151	8		
1 13/16 in. API 15000	40 (1.57)	105.5 (4.15)	160.3 (6.31)	210 (8.27)	26 (1.02)	45 (1.77)	25 (0.98)	77.77 (3.06)	BX 151	8		
2 1/16 in. API 10000	50 (1.97)	112.5 (4.43)	158.8 (6.25)	200 (7.87)	23 (0.91)	44.1 (1.74)	25 (0.98)	86.23 (3.40)	BX 152	8		
2 1/16 in. API 15000	50 (1.97)	112.5 (4.43)	174.6 (6.87)	220 (8.66)	26 (1.02)	50.8 (2.00)	25 (0.98)	86.23 (3.40)	BX 152	8		

BASIC ORDERING INFORMATION model S26RH Rotating flange diaphragm seals (flush) to ISO 10423 (API standards)

Select one character or set of characters from each category and specify complete catalog number.

	each caregory and op	00,			0.000	90		••					
BASE MODEL - 1 st to 5 th characters	S 2 6 R H	Х	XX	Х	Х	XX	Х	Х	X	Х	Х	Х	X
Rotating flange diaphragm seal (flush) to ISO 10423													
Transmitter Side of Connection - 6 th character		_								cc	ontinue	ed	
High pressure side		Н								see	next p	age	
Size / Rating - 7th and 8th characters													
ISO 10423 1 13/16 in. / API 10000 (69 MPa)			R1										
ISO 10423 1 13/16 in. / API 15000 (103.5 MPa)			R2										
ISO 10423 2 1/16 in. / API 10000 (69 MPa)			S1										
ISO 10423 2 1/16 in. / API 15000 (103.5 MPa)			S2										
Mounting Flange Material - 9th character													
AISI 316 ss				S									
Extensions Length - 10 th character													
Flush					F								
Diaphragm Material - 11th and 12th characters													
AISI 316 L ss			NA	CE		SM							
Hastelloy C-276			NA	CE		ΗM							
Inconel 625			NA	CE		LM							
Seal Surface Finish - 13th character													
According to ISO 10423							Н						
Capillary Protection - 14th character													
AISI 316 L ss armour								А					
AISI 316 L ss armour with PVC protective cover								В					
Extension tube for direct mount seal	(Note 1)							Ν					

BASIC ORDERING INFORMATIO	N model S26RH	S 2 6 R H X XX X X XX X X	Х	Х	X	Х	X
Capillary Length m (Feet) - 15th c	haracter						
Direct-mount construction		(Note 2)	1				
1 (3)		(Note 3)	А				
1.5 (5)		(Note 3)	В				
2 (7)		(Note 3)	С				
2.5 (8)		(Note 3)	D				
3 (10)		(Note 3)	Е				
3.5 (12)		(Note 3)	F				
4 (13)		(Note 3)	G				
4.5 (15)		(Note 3)	Н				
5 (17)		(Note 3)	J				
5.5 (18)	ONLY AVAILABLE FOR SIZE 2 1/16 in (code S1, S2)	(Note 3)	К				
6 (20)	ONLY AVAILABLE FOR SIZE 2 1/16 in (code S1, S2)	(Note 3)	L				
6.5 (22)	ONLY AVAILABLE FOR SIZE 2 1/16 in (code S1, S2)	(Note 3)	М				
7 (23.5)	ONLY AVAILABLE FOR SIZE 2 1/16 in (code S1, S2)	(Note 3)	Ν				
7.5 (25)	ONLY AVAILABLE FOR SIZE 2 1/16 in (code S1, S2)	(Note 3)	Ρ				
8 (27)	ONLY AVAILABLE FOR SIZE 2 1/16 in (code S1, S2)	(Note 3)	Q				
Fill Fluid - 16th character				1			
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Ρ			
Inert oil - Galden G5	(Oxygen service)	(Note 4)		Ν			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)		D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С			
Flushing Ring: Hole and Thread	- 17 th character				1		
None					Ν		
Flushing Ring Material - 18th cha	racter					1	
None						Ν	
Flushing Ring: Plug and Gasket	- 19 th character						1
None							N

Note 1: Not available with transmitter side of connection code L Note 2: Not available with capillary protection code A, B Note 3: Not available with capillary protection code N Note 4: Suitable for oxygen service

S26FA, S26FE Fixed flange diaphragm seals

These flush or extended diaphragm seal are designed to connect to flanged pipe fitting, according to ASME or EN standards. For liquid level measurement installations, the seal connects to a flanged tank nozzle, compliant to relevant standard. The sealing is provided by a selectable gasket seat surface finish. The "fixed" mounting flange is integral with the seal.

Pressure limits

Seal model S26FA to ASME B16.5	AISI 316 L ss flange @ 100 °F (38 °C)
Class 150	230 psi
Class 300	600 psi
Class 600	1200 psi

Seal model S26FE to EN 1092-1	AISI 316 L ss flange @ 20 °C					
PN 16	16 bar					
PN 40	40 bar					
PN 63	63 bar					
PN 100	100 bar					

The pressure limit decreases with increasing temperature above the specified limit, according to the referred standards.

Vacuum service

Full vacuum subject to fill fluid limits.

Flushing ring	Process limits							
gasket material	Pressure (max.)	Temperature	РхТ					
Garlock	6.9 MPa, 69 bar,	-73 and 204 °C	250000					
	1000 psi	(-100 and 400 °F)	(°F x psi)					
Graphite	2.5 MPa, 25 bar,	-100 and 380 °C						
	362 psi	(-148 and 716 °F)						
PTFE	6 MPa, 60 bar,	-100 and 250 °C						
	870 psi	(-148 and 482 °F)						

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table.

Gasket seat finish

Smooth (ASME or EN): 0.8 μ m (Ra) Serrated (ASME): 3.2 to 6.3 μ m (Ra) Serrated (EN 1092-1 Type B1): 3.2 to 12.5 μ m (Ra) Serrated (EN 1092-1 Type D and E): according to standard
Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26FA, S26FE	Sensor URL	Seal error (process)	Direct mount system	Remote system	1 metre capillary
fixed flange flush			error (ambient)	error (ambient)	error (ambient)
seal size - Mnemonic					
2 in. / DN 50 - P2	40 kPa, 160 inH2O	0.23 kPa, 0.92 inH2O	0.16 kPa, 0.64 inH2O	0.14 kPa, 0.56 inH2O	0.11 kPa, 0.44 inH2O
2 in. / DN 50 - P2	≥160 kPa, 642 inH2O	0.23 kPa, 0.92 inH2O	0.16 kPa, 0.64 inH2O	0.14 kPa, 0.56 inH2O	0.07 kPa, 0.28 inH2O
2 in. / DN 50 - F2	≥ 4 kPa, 16 inH2O	0.05 kPa, 0.2 inH2O	0.04 kPa, 0.16 inH2O	0.04 kPa, 0.16 inH2O	0.03 kPa, 0.12 inH2O
3 / 4 in. / DN 80 / 100 - P3	4 - 16 kPa, 16 - 64 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O
3 / 4 in. / DN 80 / 100 - P3	≥ 40 kPa, 160 inH2O	0.08 kPa, 0.32 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O
3 / 4 in. / DN 80 / 100 - F3	≥ 4 kPa, 16 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.01 kPa, 0.04 inH2O
S26FA, S26FE	Sensor URL	Seal error (process)	Direct mount system	Remote system	1 metre capillary
fixed flange extended			error (ambient)	error (ambient)	error (ambient)
seal size - Mnemonic					
2 in. / DN 50 - F1.5	≥160 kPa, 642 inH2O	0.15 kPa, 0.60 inH2O	0.36 kPa, 1.44 inH2O	0.36 kPa, 1.44 inH2O	0.08 kPa, 0.32 inH2O
3 / 4 in. / DN 80 / 100 - F2.5	≥ 4 kPa, 16 inH2O	0.03 kPa, 0.12 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.015 kPa, 0.06 inH2O



ASME and EN 1092-1 smooth and Form B1 (flushing ring as option, only for flush version)



EN 1092-1 Form E

EN 1092-1 Form D

Note 1 - Flange thickness tolerance is +3.0 / -0.0 mm (+0.12 / -0.0 in.).

Note 2 - Flange thickness tolerance is +1.0 / -1.3 mm (+0.04 / -0.05 in.) up to 18 mm or ±1.5 mm (±0.06 in.) from 18 to 50 mm from 18 to 50 mm.

						Dim	ensio	ns mm. (in	n.) for S26FA	1					
Size/Rating		А	(dia)												N°
	extended	flush di	aphragm	flushing	g ring										of
	diaphragm	std.	low thic	k. interna	al dia	B (dia)	0	C (dia)	D (dia)	Ε (dia)	F (Not	e 1)	G	holes
2 in. ASME CL 150	48 (1.9)	60 (2.36)	58 (2.2	3) 62 (2	.44)	92 (3.62)	120	.65 (4.75)	152.4 (6)	19.1	(0.79)	17.5 (0	D.6)	2 (0.08)	4
2 in. ASME CL 300	48 (1.9)	60 (2.36)	58 (2.2	3) 62 (2	.44)	92 (3.62)	1	127 (5)	165.1 (6.5)	19.1	(0.79)	20.8 (0	D.8)	2 (0.08)	8
2 in. ASME CL 600	48 (1.9)	60 (2.36)	58 (2.2	3) 62 (2	.44)	92 (3.62)	1	127 (5)	165.1 (6.5)	19.1	(0.79)	25.4	(1)	7 (0.27)	8
3 in. ASME CL 150	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	127 (5)	1:	52.4 (6)	190.5 (7.5)	19.1	(0.79)	22.4 (0	.88)	2 (0.08)	4
3 in. ASME CL 300	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	127 (5)	168	.15 (6.62)	209.6 (8.25	22.4	(0.86)	26.9 (*	1.1)	2 (0.08)	8
3 in. ASME CL 600	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	127 (5)	168	.15 (6.62)	209.6 (8.25	22.4	(0.86)	31.8 (*	1.3)	7 (0.27)	8
4 in. ASME CL 150	94 (3.7)	89 (3.5)	75 (2.9	5) 92 (3	.62)	157.2 (6.2)	19	0.5 (7.5)	228.6 (9)	19.1	(0.79)	22.4 (0	.88)	2 (0.08)	8
					Dime	nsions mn	n. (in.) for S26F	E smooth a	nd Forn	n B1				
Size/Rating			A (d	ia)											
	extended	flush di	aphragm	flushin	g ring										N° of
	diaphragm	std.	low thic	k. interna	al dia	B (dia)		C (dia)	D (dia)	E (d	lia)	F (Note	e 2)	G	holes
DN 50 EN PN 16	48 (1.9)	60 (2.36)	58 (2.2	8) 62 (2	.44)	102 (4.02)	12	25 (4.92)	165 (6.5)	18 (0	.71)	15 (0.5	58)	3 (0.12)	4
DN 50 EN PN 40	48 (1.9)	60 (2.36)	58 (2.2	8) 62 (2	.44)	102 (4.02)	12	25 (4.92)	165 (6.5)	18 (0	.71)	18 (0.6	67)	3 (0.12)	4
DN 50 EN PN 63	48 (1.9)	60 (2.36)	58 (2.2	8) 62 (2	.44)	102 (4.02)	13	35 (5.31)	180 (7.08)	22 (0	.86)	23 (0.	9)	3 (0.12)	4
DN 50 EN PN 100	48 (1.9)	60 (2.36)	58 (2.2	8) 62 (2	.44)	102 (4.02)	14	45 (5.71)	195 (7.67)	26 (1	.02)	27 (1.0	06)	3 (0.12)	4
DN 80 EN PN 16	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	138 (5.43)	1	60 (6.3)	200 (7.87)	18 (0	.71)	17 (0.6	57)	3 (0.12)	8
DN 80 EN PN 40	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	138 (5.43)	1	60 (6.3)	200 (7.87)	18 (0	.71)	21 (0.8	33)	3 (0.12)	8
DN 80 EN PN 63	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	138 (5.43)	1	70 (6.7)	215 (8.46)	22 (0	.86)	25 (0.9	98)	3 (0.12)	8
DN 80 EN PN 100	72 (2.83)	89 (3.5)	75 (2.9	5) 92 (3	.62)	138 (5.43)	18	30 (7.08)	230 (9.05)	26 (1	.02)	33 (1.	3)	3 (0.12)	8
DN 100 EN PN 16	94 (3.7)	89 (3.5)	75 (2.9	5) 92 (3	.62)	158 (6.22)	18	30 (7.08)	220 (8.66)	18 (0	.71)	17 (0.6	67)	3 (0.12)	8
	Dimensions mm. (in.) for S26FE Form E														
Size/Rating	diap	hragm A (e	dia)	B (d	ia)	C (dia)	D (dia)	E (di	a)	1	F		G	N° of
	std. thickn	ess low	thicknes	s							(No	te 2)			holes
DN 50 EN PN 16	60 (2.36)) 5	8 (2.28)	87 (3.	.42)	125 (4.9	2)	165 (6.5	5) 18 (0.	71)	13.5	(0.53)	4.5	(0.18)	4
DN 50 EN PN 40	60 (2.36)) 5	8 (2.28)	87 (3.	.42)	125 (4.9	2)	165 (6.5	5) 18 (0.	71)	15.5	(0.61)	4.5	(0.18)	4
DN 50 EN PN 63	60 (2.36)) 5	8 (2.28)	87 (3.	.42)	135 (5.3	51)	180 (7.08	8) 22 (0.	86)	21.5	(0.85)	4.5	(0.18)	4
DN 50 EN PN 100	60 (2.36)) 5	8 (2.28)	87 (3.	.42)	145 (5.7	1)	195 (7.67	7) 26 (1.	02)	25.	5 (1)	4.5	(0.18)	4
DN 80 EN PN 16	89 (3.5)	7	5 (2.95)	120 (4	.72)	160 (6.	3)	200 (7.87	7) 18 (0.	71)	15.5	(0.61)	4.5	(0.18)	8
DN 80 EN PN 40	89 (3.5)	7	5 (2.95)	120 (4	.72)	160 (6.	3)	200 (7.87	7) 18 (0.	71)	19.5	(0.77)	4.5	(0.18)	8
DN 80 EN PN 63	89 (3.5)	7	5 (2.95)	120 (4	.72)	170 (6.	7)	215 (8.46	6) 22 (0.	86)	23.5	(0.92)	4.5	(0.18)	8
DN 80 EN PN 100	89 (3.5)	7	5 (2.95)	120 (4	.72)	180 (7.0	18)	230 (9.05	5) 26 (1.	02)	31.5	(1.24)	4.5	(0.18)	8
					Dime	ensions mr	n (in)	for S26FE	Form D						
Size/Rating	diaphra	gm A (dia)		B (dia)	C (d	ia) D (0	dia)	E (dia)	F	H (dia)	l (dia)		L	N° of
	std. thicknes	s low thic	kness						(Note 2)						holes
DN 50 EN PN 16	60 (2.36)	58 (2	.28) 1	02 (4.02)	125 (4	1.92) 165	(6.5)	18 (0.71)	15 (0.59)	72 (2.8	3) 88	8 (3.46)	4	(0.16)	4
DN 50 EN PN 40	60 (2.36)	58 (2	.28) 1	02 (4.02)	125 (4	1.92) 165	(6.5)	18 (0.71)	18 (0.71)	72 (2.8	3) 88	8 (3.46)	4	(0.16)	4
DN 50 EN PN 63	60 (2.36)	58 (2	.28) 1	02 (4.02)	135 (5	5.31) 180 (7.08)	22 (0.86)	23 (0.91)	72 (2.8	3) 88	8 (3.46)	4	(0.16)	4
DN 50 EN PN 100	60 (2.36)	58 (2	.28) 1	02 (4.02)	145 (5	5.71) 195 (7.67)	26 (1.02)	27 (1.06)	72 (2.8	3) 8	8 (3.46)	4	(0.16)	4
DN 80 EN PN 16	89 (3.5)	75 (2	.95) 1	38 (5.43)	160 (6.3) 200 (7.87)	18 (0.71)	17 (0.67)	105 (4.1	3) 12	21 (4.76)	4	(0.16)	8
DN 80 EN PN 40	89 (3.5)	75 (2	.95) 1	38 (5.43)	160 (6.3) 200 (7.87)	18 (0.71)	21 (0.83)	105 (4.1	3) 12	21 (4.76)	4	(0.16)	8
DN 80 EN PN 63	89 (3.5)	75 (2	.95) 1	38 (5.43)	170 (6.7) 215 (8.46)	22 (0.86)	25 (0.92)	105 (4.1	3) 12	21 (4.76)	4	(0.16)	8
DN 80 EN PN 100	89 (3.5)	75 (2	.95) 1	38 (5.43)	180 (7	7.08) 230 (9.05)	26 (1.02)	33 (1.3)	105 (4.1	3) 12	21 (4.76)	4	(0.16)	8

BASIC ORDERING INFORMATION model S26FA Fixed flange diaphragm seals (flush) to ASME B16.5

	to north outer outegory u	ia opeeny eenip	1010	outun	<u> </u>							
BASE MODEL - 1 st to 5 th characters		S 2 6 F A	x	xx	х	х	xx	х	х	х	х	Х
Fixed flange diaphragm seal (flush and extend	ded) to ASME B16.5											
Transmitter Side of Connection - 6th character	er								cc	ontinue	ed	
High pressure side			Н						see	next p	age	
Low pressure side			L									
Mounting Flange Rating / Size - 7^{th} and 8^{th} c	haracters											
ASME CL 150 / 2 in.				E1								
ASME CL 300 / 2 in.				E2								
ASME CL 600 / 2 in.				E3								
ASME CL 150 / 3 in.				G1								
ASME CL 300 / 3 in.				G2								
ASME CL 600 / 3 in.				G3								
ASME CL 150 / 4 in.				H1								
Mounting Flange Material - 9th character												
AISI 316 L ss					S							
Extensions Length and Material - 10th character	cter											
Flush						F						
50 mm (2 in.)	AISI 316 L ss					1						
100 mm (4 in.)	AISI 316 L ss					3						
150 mm (6 in.)	AISI 316 L ss					5]					
Diaphragm Material - 11th and 12th characters	S											
AISI 316 L ss			NA	CE			SM					
AISI 316 L ss - Low thickness		(Note 1)	NA	CE			SL					
Hastelloy C-276			NA	CE			ΗM					
Hastelloy C-276 - Low thickness		(Note 1)	NA	CE			HL					
Hastelloy C-2000		(Note 1)	NA	CE			MM					
Inconel 625		(Note 1)	NA	CE			LM					

BASIC ORDERING INFORMATION r	nodel S26FA	S 2 6 F A X XX X X XX	Х	X	X	Х	X X X
Seal Surface Finish - 13th character							
Serrated		(Note 2)	1				continued
Smooth			2				see next page
Capillary Protection - 14th character				_			
AISI 316 L ss armour				А			
AISI 316 L ss armour with PVC prote	ective cover			В			
Extension tube for direct mount seal		(Note 3)		Ν			
Capillary Length m (Feet) - 15 th cha	racter				2		
Direct-mount construction		(Note 4)			1		
1 (3)		(Note 5)			А		
1.5 (5)		(Note 5)			В		
2 (7)		(Note 5)			С		
2.5 (8)		(Note 5)			D		
3 (10)		(Note 5)			Е		
3.5 (12)		(Note 5)			F		
4 (13)		(Note 5)			G		
4.5 (15)		(Note 5)			Н		
5 (17)		(Note 5)			J		
5.5 (18)		(Note 5)			К		
6 (20)		(Note 5)			L		
6.5 (22)		(Note 5)			Μ		
7 (23.5)		(Note 5)			Ν		
7.5 (25)		(Note 5)			Ρ		
8 (27)		(Note 5)			Q		
9 (30)		(Note 5)			R		
10 (33)		(Note 5)			S		
12 (40)		(Note 5)			Т		
14 (47)		(Notes1, 5)			U		
16 (53)		(Notes1, 5)			V		
Fill Fluid - 16th character						, ,	
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)					S	
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)					Ρ	
Inert oil - Galden G5	(Oxygen service)	(Note 6)				Ν	
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 6)				D	
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)					G	
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)					С	
Mineral oil Esso Marcol 152	(FDA approved)	(Note 7)				W	
Vegetable oil Neobee M-20	(FDA approved)	(Note 7)				А	
Glycerin-water 70%	(FDA approved)	(Note 7)				В	

BASIC ORDERING INFORMATION model S26FA	S 2 6 F A X XX X X X	xx x x x x x	Х	Х
Flushing Ring: Hole and Thread - 17th character				
None		Ν		
1 hole - 1/2 in. NPT (No	te 1)	2		
2 holes - 1/2 in. NPT (No	te 1)	3		
1 hole - 1/4 in. NPT (No	te 1)	4		
2 holes - 1/4 in. NPT (No	te 1)	5		
Flushing Ring Material - 18th character			_	
None (No	te 8)		Ν	
AISI 316 L ss (No	te 9) NACE	Ξ	Α	
Hastelloy C-276 (Notes	s 9, 10) NACE	Ξ	Н	
Flushing Ring: Plug and Gasket - 19th character				
No plug - No gasket				Ν
No plug - garlock (No	te 9)			А
No plug - PTFE (No	te 9)			В
No plug - graphite (No	te 9)			С
AISI 316 L ss - no gasket (Notes	9, 11) NACE	Ξ		D
AISI 316 L ss - garlock (Notes	9, 11) NACE	Ē		Е
AISI 316 L ss - PTFE (Notes	9, 11) NACE	Ē		F
AISI 316 L ss - graphite (Notes	9, 11) NACE	Ē		G
Hastelloy C-276 - no gasket (Notes	s 9, 12) NACE	Ξ		Н
Hastelloy C-276 - garlock (Notes	s 9, 12) NACE	Ξ		L
Hastelloy C-276 - PTFE (Notes	s 9, 12) NACE	Ξ		Μ
Hastelloy C-276 - graphite (Notes	s 9, 12) NACE	=		Ρ

Note 1: Not available with extensions length and material code 1, 3, 5

Note 2: Not available with diaphragm material code MM, LM

Note 3: Not available with transmitter side of connection code L

Note 4: Not available with capillary protection code A, B

Note 5: Not available with capillary protection code N

Note 6: Suitable for oxygen service

Note 7: Suitable for food application

Note 8: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 9: Not available with Flushing ring: hole and thread code N

Note 10: Not available with Seal surface finish code 1

Note 11: Not available with Hastelloy C-276 flushing ring material code H

Note 12: Not available with AISI 316 L flushing ring material code A

BASIC ORDERING INFORMATION model S26FE Fixed flange diaphragm seals (flush) to EN 1092-1

x	XX	X	х	ХХ	X	×	<	×	
				1	~	^	^	^	X
						CC	ontinue	ed	
н						see	next p	age	
L									
	N1								
	N2								
	N3								
	N4								
	P1								
	P2								
	P3								
	P4								
	Q1								
		S							
			F						
			1						
			3						
			5]					
NAC	CE			SM					
NAC	CE			SL					
NAC	CE			ΗM					
NAC	CE			HL					
NAC	CE			MM					
NAC	CE			LM					
	NAC NAC NAC NAC	NACE NACE NACE NACE NACE	NACE NACE NACE NACE NACE	NACE NACE NACE NACE NACE	NACE SL NACE HM NACE HL NACE MM NACE LM				

BASIC ORDERING INFORMATION mo	del S26FE	S 2 6 F E X XX X X XX	Х	X	Х	X	X	X	Х
Seal Surface Finish - 13th character									
Serrated		(Note 2)	1				cor	itinue	d
Smooth			2				see n	ext pa	age
Form E - Spigot type		(Notes 1, 3)	4						
Form D - Groove type		(Notes 1, 3, 4)	6						
Capillary Protection - 14th character									
AISI 316 L ss armour				А					
AISI 316 L ss armour with PVC protect	ive cover			В					
Extension tube for direct mount seal		(Note 5)		Ν					
Capillary Length m (Feet) - 15th charac	ter								
Direct-mount construction		(Note 6)			1				
1 (3)		(Note 7)			А				
1.5 (5)		(Note 7)			В				
2 (7)		(Note 7)			С				
2.5 (8)		(Note 7)			D				
3 (10)		(Note 7)			Е				
3.5 (12)		(Note 7)			F				
4 (13)		(Note 7)			G				
4.5 (15)		(Note 7)			Н				
5 (17)		(Note 7)			J				
5.5 (18)		(Note 7)			К				
6 (20)		(Note 7)			L				
6.5 (22)		(Note 7)			М				
7 (23.5)		(Note 7)			Ν				
7.5 (25)		(Note 7)			Р				
8 (27)		(Note 7)			Q				
9 (30)		(Note 7)			R				
10 (33)		(Note 7)			S				
12 (40)		(Note 7)			Т				
14 (47)		(Notes 1, 7)			U				
16 (53)		(Notes 1, 7)			V				
Fill Fluid - 16th character						J			
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)					S			
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)					Р			
Inert oil - Galden G5	(Oxygen service)	(Note 8)				Ν			
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 8)				D			
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)					G			
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)					С			
Mineral oil Esso Marcol 152	(FDA approved)	(Note 9)				W			
Vegetable oil Neobee M-20	(FDA approved)	(Note 9)				А			
Glycerin-water 70%	(FDA approved)	(Note 9)				В			

BASIC ORDERING INFORMATION model S26FE	S 2 6 F E	x xx x x x x x x x x	X X	Х	X
Flushing Ring: Hole and Thread - 17th character					
None			Ν		
1 hole - 1/2 in. NPT	(Notes 1, 10)		2		
2 holes - 1/2 in. NPT	(Notes 1, 10)		3		
1 hole - 1/4 in. NPT	(Notes 1, 10)		4		
2 holes - 1/4 in. NPT	(Notes 1, 10)		5		
Flushing Ring Material - 18th character					
None	(Note 11)			Ν	
AISI 316 L ss	(Note 12)	NACE		А	
Hastelloy C-276	(Notes 12, 13)	NACE		Н	
Flushing Ring: Plug and Gasket - 19th character					
No plug - No gasket					Ν
No plug - garlock	(Note 12)				А
No plug - PTFE	(Note 12)				В
No plug - graphite	(Note 12)				С
AISI 316 L ss - no gasket	(Notes 12, 14)	NACE			D
AISI 316 L ss - garlock	(Notes 12, 14)	NACE			Е
AISI 316 L ss - PTFE	(Notes 12, 14)	NACE			F
AISI 316 L ss - graphite	(Notes 12, 14)	NACE			G
Hastelloy C-276 - no gasket	(Notes 12, 15)	NACE			Н
Hastelloy C-276 - garlock	(Notes 12, 15)	NACE			L
Hastelloy C-276 - PTFE	(Notes 12, 15)	NACE			Μ
Hastelloy C-276 - graphite	(Notes 12, 15)	NACE			Ρ

Note 1: Not available with extensions length and material code 1, 3, 5

Note 2: Not available with diaphragm material code MM, LM Note 3: Not available with DN 100 size code Q1

Note 4: Not available with diaphragm material code HM, HL, MM, LM

Note 5: Not available with transmitter side of connection code L

Note 6: Not available with capillary protection code A, B

Note 7: Not available with capillary protection code N

Note 8: Suitable for oxygen service

Note 9: Suitable for food application

Note 10: Not available with Seal surface finish code 4, 6

Note 11: Not available with Flushing ring: hole and thread code 2, 3, 4, 5

Note 12: Not available with Flushing ring: hole and thread code $\ensuremath{\mathsf{N}}$

Note 13: Not available with Seal surface finish code 1

Note 14: Not available with Hastelloy C-276 flushing ring material code H

Note 15: Not available with AISI 316 L flushing ring material code A

S26TT Model off-line threaded diaphragm seal

The off-line threaded connection seals are designed to connect directly to a process pipe via the NPT connection in the lower housing . These elements are available with a flushing connection, on request, in the lower housing.

Pressure limits

Seal model	Temperature range	Pressure limit
S26TT bolting		
AISI 316 ss or	0 100 °C (32 212 °F)	21 MPa, 210 bar, 3045 psi
Carbon steel	-60 0 °C (-76 32 °F)	16 MPa, 160 bar, 2320 psi
	100 360 °C (212 680 °F)	16 MPa, 160 bar, 2320 psi
Alloy steel	0 37.8 °C (32 100 °F)	21 MPa, 210 bar, 3045 psi
	-48.3 0 °C (-55 32 °F)	16 MPa, 160 bar, 2320 psi
	37.8 360 °C (100 680 °F)	13 MPa, 130 bar, 1885 psi

Vacuum service

Full vacuum subject to fill fluid limits.

Refer to FILL FLUID CHARACTERISTICS table. Minimum pressure with tantalum diaphragm is 1 kPa abs, 10 mbar abs, 0.15 psia.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

260 °C (500 °F)
320 °C (608 °F)
-100 and 260 °C
(-148 and 500 °F)
-20 and 260 °C
(-4 and 500 °F)
-100 and 360 °C
(-148 and 680 °F)

Bolts

AISI 316 ss bolts Class A4-80 and nuts Class A4-70 per EN ISO 3506;

Carbon steel bolts Class 8.8 per EN ISO 4014 and nuts Class 8 per EN ISO 898/2;

Alloy steel bolts per ASTM-A-193-77a grade B7M and nuts per ASTM A194/A 194 M-90 grade 2HM, in compliance with NACEMR0175 Class II.

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature errorb) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26T off-line threaded	Sensor URL	Seal error (process)	Direct mount system	Remote system error	1 metre capillary		
seal size - Mnemonic			error (ambient)	(ambient)	error (ambient)		
2 1/2 in T2.5	≥ 4 kPa, 16 inH2O	0.26 kPa, 1.04 inH2O	0.11 kPa, 0.44 inH2O	0.1 kPa, 0.4 inH2O	0.08 kPa, 0.32 inH2O		
MULTIPLY BY 10 THE KP2 VALUES TO OBTAIN mbar							



	Dimensions mm. (in.) for S26TT					
Size (thread)	D (dia)	Q				
1/4 in. NPT	109.2 (4.3)	53.3 (2.1)				
1/2 in. NPT	109.2 (4.3)	53.3 (2.1)				
3/4 in. NPT	109.2 (4.3)	63.5 (2.5)				
1 in. NPT	109.2 (4.3)	63.5 (2.5)				
1 1/2 in. NPT	109.2 (4.3)	63.5 (2.5)				

Select one character or set of characters from each category and specify complete catalog number. BASE MODEL - 1st to 5th characters S 2 6 T T Х Х Х Х XX Х Х Х Х Х Off-line threaded diaphragm seal Transmitter Side of Connection - 6th character continued High pressure side Н see next page Low pressure side L Size - 7th character 1/4 in. NPT-f 1 1/2 in. NPT-f 2 3/4 in. NPT-f 3 1 in. NPT-f 4 1 1/2 in. NPT-f 5 Bolts material - 8th character AISI 316 ss 1 2 Carbon steel З NACE Alloy steel Mounting Flange Material - 9th character AISI 316 ss NACE S Н Hastelloy C-276 NACE Diaphragm Material - 10th and 11th characters AISI 316 L ss NACE SM NACE Hastelloy C-276 ΗM Hastelloy C-2000 NACE MM Inconel 625 NACE LM Tantalum TΜ AISI 316 L ss gold plated NACE NM Capillary Protection - 12th character AISI 316 L ss armour А AISI 316 L ss armour with PVC protective cover В Extension tube for direct mount seal Ν (Note 1)

BASIC ORDERING INFORMATION model S26TT Off-line threaded diaphragm seals

BASIC ORDERING INFORMATION m	odel S26TT		S 2 6 T T X XX X XX X X	Х	Х	X
Capillary Length m (Feet) - 13th chara	acter					
Direct-mount construction		(Note 2)	1			
1 (3)		(Note 3)	А			
1.5 (5)		(Note 3)	В			
2 (7)		(Note 3)	С			
2.5 (8)		(Note 3)	D			
3 (10)		(Note 3)	E			
3.5 (12)		(Note 3)	F			
4 (13)		(Note 3)	G			
4.5 (15)		(Note 3)	Н			
5 (17)		(Note 3)	J			
5.5 (18)		(Note 3)	К			
6 (20)		(Note 3)	L			
6.5 (22)		(Note 3)	М			
7 (23.5)		(Note 3)	Ν			
7.5 (25)		(Note 3)	P			
8 (27)		(Note 3)	Q			
9 (30)		(Note 3)	R			
10 (33)		(Note 3)	S			
12 (40)		(Note 3)	Т			
Fill Fluid - 14th character						
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S		
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Ρ		
Inert oil - Galden G5	(Oxygen service)	(Note 4)		Ν		
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)		D		
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G		
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С		
Mineral oil Esso Marcol 152	(FDA approved)	(Note 5)		W		
Vegetable oil Neobee M-20	(FDA approved)	(Note 5)		А		
Glycerin-water 70%	(FDA approved)	(Note 5)		В		
Flushing Connections - 15th characte	r					
Not required					1	
Provided (2 off)		(Note 6)			Q	
Gasket - 16th character						
PTFE						2
Viton						3
Graphite						7

Note 1: Not available with transmitter side of connection code L Note 2: Not available with capillary protection code A, B Note 3: Not available with capillary protection code N

Note 4: Suitable for oxygen service Note 5: Suitable for food application

Note 6: Not available with size code 5

S26MA, S26ME Model off-line flanged diaphragm seal

The off-line flanged connection remote seals are designed to connect directly to ASME or EN flanged tank nozzles. These elements are available with a flushing connection in the lower housing, selectable on request in the ordering code.

Pressure limits

Seal model S26ME to EN 1092-1	AISI 316 ss or Hastelloy C flange
PN 16 / 40	40 bar @ 25 °C (77 °F)

Seal model S26MA	AISI 316 L ss flange	Hastelloy C flange
to ASME B16.5	@ 25 °C (77 °F)	@ 25 °C (77 °F)
Class 150	230 psi	290 psi
Class 300	600 psi	750 psi

The pressure limit decreases with increasing temperature above to the specified values as defined for the material, respectively for EN 1092-1 or ASME B16.5 standards.

Vacuum service

Full vacuum subject to fill fluid limits.

Refer to FILL FLUID CHARACTERISTICS table. Minimum pressure with tantalum diaphragm is 1 kPa abs, 10 mbar abs, 0.15 psia.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Material	
Tantalum diaphragm	260 °C (500 °F)
AISI gold plated diaphragm	320 °C (608 °F)
PTFE gasket	-100 and 260 °C
	(-148 and 500 °F)
Viton gasket	-20 and 260 °C
	(-4 and 500 °F)
graphite gasket	-100 and 360 °C
	(-148 and 680 °F)

Bolts

Bolts (seal / flange): AISI 316 ss Class A4-70 per EN ISO 3506; studs with nuts (flange / process): AISI 3xx per ASTM-SA-193/194 grade B8C or B8T

Gasket seat finish

Serrated (ASME): 3.2 to 6.3 µm (Ra) Serrated (EN 1092-1 Type B1): 3.2 to 12.5 µm (Ra)

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26MA, S26ME off-line flange	Sensor URL	Seal error (process)	Direct mount system	Remote system error	1 metre capillary
seal size - Mnemonic			error (ambient)	(ambient)	error (ambient)
2 1/2 in T2.5	≥ 4 kPa, 16 inH2O	0.26 kPa, 1.04 inH2O	0.11 kPa, 0.44 inH2O	0.1 kPa, 0.4 inH2O	0.08 kPa, 0.32 inH2O
		nhar			



Size/Rating	Dimensions mm. (in.) for S26MA and S26ME							
	A (dia)	B (dia)	C (4 studs)	D (dia)	E (dia)	F	
			Length	Thread				
1/2 in. ASME CL 150	110 (4.33)	60.5 (2.38)	39 (1.53)	1/2 in 13 UNC	35.1 (1.38)	15.8 (0.62)	1.6 (0.06)	
1/2 in. ASME CL 300	110 (4.33)	66.5 (2.62)	39 (1.53)	1/2 in. – 13 UNC	35.1 (1.38)	15.8 (0.62)	1.6 (0.06)	
1 in. ASME CL 150	110 (4.33)	79.4 (3.12)	39 (1.53)	1/2 in. – 13 UNC	50.8 (2)	26.7 (1.05)	1.6 (0.06)	
1 in. ASME CL 300	124 (4.88)	88.9 (3.5)	51 (2)	5/8 in. – 11 UNC	50.8 (2)	26.7 (1.05)	1.6 (0.06)	
1 1/2 in. ASME CL 150	127 (5)	98.4 (3.87)	39 (1.53)	1/2 in. – 13 UNC	73 (2.87)	41 (1.61)	1.6 (0.06)	
1 1/2 in. ASME CL 300	155 (6.1)	114.3 (4.5)	57 (2.24)	3/4 in. – 10 UNC	73 (2.87)	41 (1.61)	1.6 (0.06)	
DN 25 PN 16-40	115 (4.52)	85 (3.34)	42 (1.65)	M12	68 (2.67)	28.5 (1.12)	2 (0.08)	
DN 40 PN 16-40	150 (5.9)	110 (4.33)	48 (1.89)	M16	88 (3.46)	43.1 (1.69)	3 (0.12)	

BASIC ORDERING INFORMATION model S26MA Off-line flange diaphragm seals

SASE MODEL - 1 st to 5 st characters		S 2 6 M A	X	XX	Х	XX	Х	X	X	Х	X
Off-line flange diaphragm seal to ASME B16.5											
Fransmitter Side of Connection - 6th character									conti	nued	
High pressure side			Н					s	ee nex	kt pag	e
Low pressure side			L								
Mounting Flange Rating / Size - 7 th and 8 th characters											
ASME CL 150 / 1/2 in.				A1							
ASME CL 300 / 1/2 in.				A2							
ASME CL 150 / 1 in.				C1							
ASME CL 300 / 1 in.				C2							
ASME CL 150 / 1 1/2 in.				D1							
ASME CL 300 / 1 1/2 in.				D2							
Nounting Flange Material / Seat Form - 9th character											
AISI 316 ss / Form RF (raised face) - serrated finish	NACE	(Note 6)			S						
Hastelloy C-276 / Form RF (raised face) - serrated finish	NACE	(Note 6)			Н						
Hastelloy C-2000 / Form RF (raised face) - serrated finish	h NACE	(Note 7)			Y						
Diaphragm Material - 10 th and 11 th characters											
AISI 316 L ss	NACE	E				SM					
Hastelloy C-276	NACE	E				ΗM					
Hastelloy C-2000	NACE	E				MM					
Hastelloy C-2000 diaphragm and body	NACE	E				ZM					
Inconel 625	NACE	E				LM					
Tantalum						ТМ					
AISI 316 L ss gold plated	NACE					NM					
Capillary Protection - 12th character											
AISI 316 L ss armour							А				
AISI 316 L ss armour with PVC protective cover							В				
Extension tube for direct mount seal	(Note 1)						Ν]			

BASIC ORDERING INFORMATION mode	el S26MA		S 2 6 M A X XX X XX X	Х	Х	Х	X
Capillary Length m (Feet) - 13th characte	r						
Direct-mount construction		(Note 2)		1			
1 (3)		(Note 3)		А			
1.5 (5)		(Note 3)		В			
2 (7)		(Note 3)		С			
2.5 (8)		(Note 3)		D			
3 (10)		(Note 3)		Е			
3.5 (12)		(Note 3)		F			
4 (13)		(Note 3)		G			
4.5 (15)		(Note 3)		Н			
5 (17)		(Note 3)		J			
5.5 (18)		(Note 3)		К			
6 (20)		(Note 3)		L			
6.5 (22)		(Note 3)		Μ			
7 (23.5)		(Note 3)		Ν			
7.5 (25)		(Note 3)		Ρ			
8 (27)		(Note 3)		Q			
9 (30)		(Note 3)		R			
10 (33)		(Note 3)		S			
12 (40)		(Note 3)		Т			
Fill Fluid - 14th character					-		
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)				S		
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)				Ρ		
Inert oil - Galden G5	(Oxygen service)	(Note 4)			Ν		
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)			D		
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)				G		
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)				С		
Mineral oil Esso Marcol 152	(FDA approved)	(Note 5)			W		
Vegetable oil Neobee M-20	(FDA approved)	(Note 5)			А		
Glycerin-water 70%	(FDA approved)	(Note 5)			В		
Flushing Connections - 15th character							
Not required						1	
Provided (2 off)						Q	
Gasket - 16th character							
PTFE							2
Viton		(Note 6)					3
Graphite		(Note 6)					7

Note 1: Not available with transmitter side of connection code L

Note 2: Not available with capillary protection code A, B Note 3: Not available with capillary protection code A, B Note 3: Not available with capillary protection code N Note 4: Suitable for oxygen service

Note 5: Suitable for food application

Note 6: Not available with diaphragm material code ZM

Note 7: Not available with diaphragm material code SM, HM, MM, LM, TM, NM

BASIC ORDERING INFORMATION model S26ME Off-line flange diaphragm seals

	such culogory and opeen	y complete	outun	og ne							
BASE MODEL - 1 st to 5 th characters		S 2 6 M E	Х	XX	Х	XX	Х	Х	Х	Х	Х
Off-line flange diaphragm seal to EN 1092-1											
Transmitter Side of Connection - 6th character									conti	nued	
High pressure side			Н					s	ee ne>	kt pag	e
Low pressure side			L								
Mounting Flange Rating / Size - $7^{\mbox{\tiny th}}$ and $8^{\mbox{\tiny th}}$ characters											
PN 16 - 40 / DN 25				L2							
PN 16 - 40 / DN 40				M2							
Mounting Flange Material / Seat Form - 9th character											
AISI 316 ss / Form B1 - serrated finish	NACE				S						
Hastelloy C-276 / Form B1 - serrated finish	NACE				Н						
Diaphragm Material - 10 th and 11 th characters											
AISI 316 L ss	NACE					SM					
Hastelloy C-276	NACE					ΗM					
Hastelloy C-2000	NACE					MM					
Inconel 625	NACE					LM					
Tantalum						ΤM					
AISI 316 L ss gold plated	NACE					NM					
Capillary Protection - 12th character											
AISI 316 L ss armour							А				
AISI 316 L ss armour with PVC protective cover							В				
Extension tube for direct mount seal	(Note 1)						Ν				

BASIC ORDERING INFORMATION mode	I S26ME		S 2 6 M E X XX X XX X	Х	Х	Х	Х
Capillary Length m (Feet) - 13th characte	r						
Direct-mount construction		(Note 2)		1			
1 (3)		(Note 3)		А			
1.5 (5)		(Note 3)		В			
2 (7)		(Note 3)		С			
2.5 (8)		(Note 3)		D			
3 (10)		(Note 3)		Е			
3.5 (12)		(Note 3)		F			
4 (13)		(Note 3)		G			
4.5 (15)		(Note 3)		Н			
5 (17)		(Note 3)		J			
5.5 (18)		(Note 3)		К			
6 (20)		(Note 3)		L			
6.5 (22)		(Note 3)		Μ			
7 (23.5)		(Note 3)		Ν			
7.5 (25)		(Note 3)		Ρ			
8 (27)		(Note 3)		Q			
9 (30)		(Note 3)		R			
10 (33)		(Note 3)		S			
12 (40)		(Note 3)		Т			
Fill Fluid - 14th character							
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)				S		
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)				Р		
Inert oil - Galden G5	(Oxygen service)	(Note 4)			Ν		
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)			D		
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)				G		
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)				С		
Mineral oil Esso Marcol 152	(FDA approved)	(Note 5)			W		
Vegetable oil Neobee M-20	(FDA approved)	(Note 5)			А		
Glycerin-water 70%	(FDA approved)	(Note 5)			В		
Flushing Connections - 15th character					,		
Not required						1	
Provided						Q	
Gasket - 16 th character							
PTFE							2
Viton							3
Graphite							7

Note 1: Not available with transmitter side of connection code L Note 2: Not available with capillary protection code A, B Note 3: Not available with capillary protection code N Note 4: Suitable for oxygen service Note 5: Suitable for food application

S26SS Model sanitary and food diaphragm seal

Sanitary diaphragm seals have been specifically developed for food, sanitary, chemical and pharmaceutical applications, complying with the stringent 3-A requirements.

Available with different process fittings (Triclamp, Cherry Burrell, Union Nut and Sanitary), this model highlights ABB's commitment to satisfy users needs approaching even the most demanding processes successfully.

Pressure limits

Seal model S26SS	Pressure limit
Triclamp 2 in.	3.8 MPa, 38 bar, 550 psi
Triclamp 3 in.	2.4 MPa, 24 bar, 350 psi
Triclamp 4 in.	1.7 MPa, 17 bar, 250 psi
Union nut F50	2.5 MPa, 25 bar, 360 psi
Union nut F80	2.5 MPa, 25 bar, 360 psi
Cherry Burrel 2 in.	1.9 MPa, 19 bar, 275 psi
Cherry Burrel 3 in.	1.9 MPa, 19 bar, 275 psi
Cherry Burrel 4 in.	1.9 MPa, 19 bar, 275 psi
Sanitary flush 4 in.	1.9 MPa, 19 bar, 275 psi
Sanitary extended 4 in.	1.9 MPa, 19 bar, 275 psi
Beverage bolted type 1 1/2 in.	4 MPa, 40 bar, 580 psi
V-band clamp option	1 MPa, 10 bar, 145 psi
4in schedule 5 V-band clamp option	0.7MPa, 7bar, 100psi

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Material	
Ethylene Propylene	-40 and 121 °C
EPDM 3-A 18-03 Class II	(-40 and 250 °F)
Ethylene Propylene	-40 and 149 °C
	(-40 and 300 °F)

Temperature effect

The following table shows temperature effect per 20 K (36 $^{\circ}$ F) change, detailed separately for

a) the seal (one element), as process temperature errorb) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26SS sanitary and food-	Sensor URL	Seal error (process)	Direct mount system	Remote system error	1 metre capillary
seal size - Mnemonic			error (ambient)	(ambient)	error (ambient)
2 in. / F50 - S2	40 kPa, 160 inH2O	0.7 kPa, 2.8 inH2O	0.93 kPa, 3.72 inH2O	0.87 kPa, 3.48 inH2O	0.68 kPa, 2.72 inH2O
2 in. / F50 - S2	≥160 kPa, 642 inH2O	0.7 kPa, 2.8 inH2O	0.93 kPa, 3.72 inH2O	0.87 kPa, 3.48 inH2O	0.44 kPa, 1.76 inH2O
2 in S2.5	40 kPa, 160 inH2O	0.16 kPa, 0.64 inH2O	0.19 kPa, 0.76 inH2O	0.18 kPa, 0.72 inH2O	0.14 kPa, 0.56 inH2O
2 in S2.5	≥160 kPa, 642 inH2O	0.16 kPa, 0.64 inH2O	0.19 kPa, 0.76 inH2O	0.18 kPa, 0.72 inH2O	0.09 kPa, 0.36 inH2O
3 / 4 in. / F80 - S3	4 - 16 kPa, 16 - 64 inH2O	0.06 kPa, 0.24 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.01 kPa, 0.04 inH2O
3 / 4 in. / F80 - S3	≥ 40 kPa, 160 inH2O	0.06 kPa, 0.24 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O
3 / 4 in S3.5	4 - 16 kPa, 16 - 64 inH2O	0.04 kPa, 0.16 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.01 kPa, 0.04 inH2O
3 / 4 in S3.5	≥ 40 kPa, 160 inH2O	0.04 kPa, 0.16 inH2O	0.02 kPa, 0.08 inH2O	0.02 kPa, 0.08 inH2O	0.03 kPa, 0.12 inH2O
1 1/2 in K1.5	≥ 40 kPa, 260 inH2O	0.2 kPa, 0.8 inH2O	0.5 kPa, 2 inH2O	NA	NA

The Union Nut and Triclamp seals are designed for connection respectively by Union Nut according to DIN 11851 - F50 or F80 and by 2 in., 3 in., 4 in. Triclamp sanitary fittings. A variety of gaskets and clamp rings for the seals are available.



The Cherry Burrell seals are designed for connection to 2 in., 3 in. or 4 in. Cherry Burrell I-Line sanitary fittings. A 4 in. V-band clamp is optionally available for the 4 in. variant.



	Dimensions mm. (in.) for S26SS Cherry Burrell						
Size	A (dia)	B (dia)	C (dia)	D (dia)	Е	F	G
2 in.	67 (2.64)	56 (2.2)	47.7 (1.88)	57 (2.24)	6.5 (0.26)	12.5 (0.49)	3 (0.12)
3 in.	98.4 (3.87)	81 (3.19)	71 (2.80)	83.8 (3.3)	7.9 (0.31)	15 (0.59)	3 (0.12)
4 in.	124 (4.88)	111.25 (4.38)	71 (2.80)	109.3 (4.3)	7.9 (0.31)	15 (0.59)	3 (0.12)

The sanitary seal with flush diaphragm is designed to connect to a 4 in. sanitary tank spud. The tank spud and process gasket are available as options with the seal suitable V-band clamp is also available on request.



The sanitary seal with extended diaphragm is designed to connect to a 4 in. sanitary tank spud. The tank spud and process gasket are available with the seal.



NOTE: The tank spud required for connection of this seal element must be welded to the process vessel prior to connecting the seal, following a recommended welding and pressure testing procedure.

The sanitary aseptic remote seal is designed to connect to a 4 in. sanitary fitting: either an aseptic tank spud or a 4 in. Cherry Burrell aseptic ferrule. The tank spud, gaskets and V-band clamp are available option with the seal element. NOTE: The tank spud or ferrule required for connection of this seal element must be welded to the process vessel prior to connecting the element, following recommended welding and pressure testing procedure. Weld the Cherry Burrell ferrule to the process vessel in accordance with manufacturers recommandations.



4 in. Cherry Burrell Aseptic



4 in. Aseptic Flanged Connection

BASIC ORDERING INFORMATION model S26SS Sanitary and food diaphragm seals

	in each eacegery and epeciny comple		9		··-					
BASE MODEL - 1 st to 5 th characters	S 2	26SS	x	x	xx	х	х	х	x	Х
Sanitary and food diaphragm seal										
Transmitter Side of Connection - 6th character								cc	ntinue	эd
High pressure side			Н					see	next p	age
Low pressure side			L							
Mounting connection - 7th character										
Union nut DIN 11851 – F50 (not 3-A authorized)				А						
Union nut DIN 11851 – F80 (not 3-A authorized)				В						
2 in. Triclamp				F						
3 in. Triclamp				G						
4 in. Triclamp				Н						
2 in. Cherry Burrell				L						
3 in. Cherry Burrell				Μ						
4 in. Cherry Burrell				Ν						
4 in. Sanitary flush diaphragm				Р						
4 in. Sanitary extended (2 in.) diaphragm				Q						
4 in. Sanitary extended (4 in.) diaphragm				R						
4 in. Sanitary extended (6 in.) diaphragm				S						
4in Cherry Burrell aseptic - ONLY REMOTE MOUNT				W						
4in aseptic flanged connection - ONLY REMOTE MC	DUNT			J						
Beverage application bolted seal (not 3-A authorized) - ONLY DIRECT MOUNT WITH 266HDH, 2	266NDH		Т						
Diaphragm Material - 8th and 9th characters	· · · · · · · · · · · · · · · · · · ·				1					
AISI 316 L ss					SM					
Capillary Protection - 10 th character						1				
AISI 316 L ss armour	(Note 1)					А				
AISI 316 L ss armour with PVC protective cover	(Note 1)					В				
Extension tube for direct mount seal	(Note 2)					Ν				
Capillary Length m (Feet) - 11th character							I			
Direct-mount construction	(Note 3)						1			
1 (3)	(Note 4)						А			
1.5 (5)	(Note 4)						В			
2 (7)	(Note 4)						С			
2.5 (8)	(Note 4)						D			
3 (10)	(Note 4)						Е			
3.5 (12)	(Note 4)						F			
4 (13)	(Note 4)						G			
4.5 (15)	(Note 4)						Н			
5 (17)	(Note 4)						J			
5.5 (18)	(Note 4)						K			
6 (20)	(Note 4)						1			
6.5 (22)	(Note 4)						M			
7 (23.5)	(Note 4)						N			
7 5 (25)	(Note 4)						P			
8 (27)	(Note 4)						0			
9 (30)	(Note 4)						R			
10 (33)	(Note 4)						9			
10 (00)							3			

BASIC ORDERING INFORMATION mo	del S26SS		S 2 6 S S X X XX X X	Х	Х	Х
Fill Fluid - 12th character						
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S		
Inert oil - Halocarbon 4.2	(-40 to 250 °C; -40 to 480 °F)	(Note 5)		D		
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С		
Mineral oil Esso Marcol 152	(FDA approved)	(Note 6)		W		
Vegetable oil Neobee M-20	(FDA approved)	(Note 6)		А		
Glycerin-water 70%	(FDA approved)	(Note 6)		В		
Clamp/Fittings - 13th character						
None					1	
2 in. V-band Clamp (for 2 in. Triclamp)					А	
3 in. V-band Clamp (for 3 in. Triclamp)					В	
4 in. V-band Clamp (for 4 in. Triclamp,	4 in. Cherry Burrell, 4 in. Sanitary flush and 4	in. aseptic flanged)			С	
4 in. Tank spud, tank wall up to 4.7mm	(0.18) and 4 in. V-band Clamp (for 4 in. San	itary flush seal)			D	
4 in. Tank spud, tank wall up to 9.5mm	(0.37) and 4 in. V-band Clamp (for 4 in. San	itary flush seal)			E	
4 in. schedule 5 V-band clamp (for 4 in	Sanitary extended seal)				F	
Tank spud for 2 in. extension and 4 in.	schedule 5 V-band clamp (for 4 in. Sanitary e	extended 2 in. seal)			G	
Tank spud for 4 in. extension and 4 in.	schedule 5 V-band clamp (for 4 in. Sanitary e	extended 4 in. seal)			н	
Tank spud for 6 in. extension and 4 in.	schedule 5 V-band clamp (for 4 in. Sanitary e	extended 6 in. seal)			J	
Aseptic tank spud (for 4 in. aseptic flan	ged seal)				Р	
Flanged tank spud with 6 holes (for 1 1	/2 in. beverage seal)				К	
Gasket - 14 th character						
None						1
Ethylene propylene gasket DN100 (for 4	1 in. Sanitary extended seal) - (EPDM 3-A 18	-03 Class II)				А
Ethylene propylene gasket (for 1 1/2 in.	beverage seal)					В
Ethylene propylene gasket DN50 (for F	50 Union nut seal)					С
Ethylene propylene gasket DN80 (for F8	30 Union nut seal)					D
Ethylene propylene gasket (for 4 in. Sar	nitary flush and 4 in. aseptic) - (EPDM 3-A 18	3-03 Class II)				G

Note 1: Not available with beverage bolted seal connection code T Note 2: Not available with transmitter side of connection code L or aseptic seals code W, J

Note 2: Not available with capillary protection code A, B Note 4: Not available with capillary protection code A Note 4: Not available with capillary protection code N Note 5: Suitable for oxygen service Note 6: Suitable for food application

S26PN Model urea service remote diaphragm seal

Pressure limits

Seal model S26P	
3 in. ASME 600 integral flange	8 MPa, 80 bar, 1160 psi
2 in. ASME 2500 threaded flange	32 MPa, 320 bar, 4640 psi

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table.

Temperature effect

The following table shows temperature effect per 20 K (36 °F) change, detailed separately for

a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26PN urea service	Sensor URL	Seal error (process)	Remote system error	1 metre capillary
seal size - Mnemonic			(ambient)	error (ambient)
1 1/2 in U1.5 (2 in. flange)	≥ 160 kPa, 642 inH2O	0.86 kPa, 3.44 inH2O	1.1 kPa, 4.4 inH2O	0.54 kPa, 2.16 inH2O
2 1/2 in U2.5 (3 in. flange)	≥ 40 kPa, 160 inH2O	0.18 kPa, 0.72 inH2O	0.06 kPa, 0.24 inH2O	0.11 kPa, 0.44 inH2O



BASIC ORDERING INFORMATION model S26PN urea service remote diaphragm seals

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL - 1 st to 5 th characters	S 2 6 P N	Х	Х	Х	XX	Х	Х	Х	Х
Urea service remote diaphragm seal									
Transmitter Side of Connection - 6th character									
High pressure side		Н							
Low pressure side		L							
Size / Mounting Flange Rating / Material - 7th character									
3 in. / ASME 600 RF integral flange / AISI 316 L ss Urea Grade			Н						
2 in. / ASME 2500 threaded flange / Carbon steel			J						
Extension lenght / diameter - 8th character									
40.3 mm (1.59 in.) / 69 mm (2.71 in.)	(Note 1)			R					
40.3 mm (1.59 in.) / 94 mm (3.7 in.)	(Note 1)			S					
131 mm (5.16 in.) / 37.5 mm (1.47 in.)	(Note 2)			Т					
Diaphragm Material - 9th and 10th characters									
AISI 316 L ss Urea Grade					SM				
Capillary Protection - 11th character									
AISI 316 L ss armour						А			
AISI 316 L ss armour with PVC protective cover						В			
Capillary Length m (Feet) - 12th character									
1 (3)							А		
1.5 (5)							В		
2 (7)							С		
2.5 (8)							D		
3 (10)							Е		
3.5 (12)							F		
4 (13)							G		
4.5 (15)							Н		
5 (17)							J		
5.5 (18)	(Note 1)						К		
6 (20)	(Note 1)						L		
Fill Fluid - 13th character									
Silicone oil PMX 200 10 cSt (-40 to 250 °C; -40 to 480 °F)								S	
Silicone oil for high temperature (-10 to 375 °C; 14 to 707 °F)								G	
Certification - 14th character									
None									1
Huey test									3

Note 1: Not available with Size/Mounting flange code J Note 2: Not available with Size/Mounting flange code H

S26BN Model Button type remote diaphragm seal

These remote seals are designed to connect directly to a process pipe via the NPT threaded connection or to match pipe fitting withan interface suitable for the provided mating flange. The button seals, due to their design, are dedicated for measurement with medium/high calibrated span (2 MPa/20 bar/290 psi approx. or greater).

Pressure limits

Seal model S26BN	Temp limits 20 and 120 °C (68 and 248 °F)
Types 89, 90 and 92	42 MPa, 420 bar, 6090 psi
Types 91	35 MPa, 350 bar, 5075 psi

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table.

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

S26BN Button type	Sensor URL	Seal error (process)	Remote system error	1 metre capillary
seal size - Mnemonic			(ambient)	error (ambient)
1 in B1	≥ 8 MPa, 1160 psi	1.3 kPa, 5.2 inH2O	6.5 kPa, 26 inH2O	1.9 kPa, 7.6 inH2O



3 1/4 in. flange extended - type 91



3 1/2 in. flange extended - type 91 modified



1 1/2 in. threaded union type 92/92 modified



Bracket - type 89



Universal- type 90

BASIC ORDERING INFORMATION model S26BN Button type remote diaphragm seals

Select one character or set of characters from each category and specify complete catalog number.

BASE MODEL - 1 st to 5 th characters	S 2 6 B N	x	x	х	xx	х	х	х	х	х
Button type remote diaphragm seal										
Transmitter Side of Connection - 6th character										
High pressure side		Н								
Size - 7 th character										
1 in.			Μ							
Mounting connection type - 8th character										
3 1/4 in. flange extended - type 91				А						
3 1/2 in. flange extended - type 91 modified				В						
1 1/2 in. 16N-2 threaded union - type 92				С						
Bracket – type 89				D						
Universal – type 90				Е						
1 1/2 in. 12NF threaded union - type 92 modified				F						
Diaphragm Material - 9th and 10th characters										
Hastelloy C-276	NACE				HL					
Capillary Protection - 11th character										
AISI 316 L ss armour						А				
AISI 316 L ss armour with PVC protective cover						В]			
Capillary Length m (Feet) - 12th character										
1 (3)							А			
1.5 (5)							В			
2 (7)							С			
2.5 (8)							D			
3 (10)							Е			
Fill Fluid - 13th character								-		
Silicone oil PMX 200 10 cSt (-40 to 250 °C; -40 to 480 °F)								S		
Silicone oil for high temperature (-10 to 375 °C; 14 to 707 °F)								G		
Mineral oil Esso Marcol 152 (FDA approved)	(Note 1)							W		
Option - 14th character										
None									1	
Jack out collar for seal removal for process (not for type 89)	(Note 2)								2	
Gasket - 15th character										
None										1
Aluminium										Е
AISI 316 ss										F

Note 1: Suitable for food application

Note 2: Not available with mounting connection types code D

S26VN Model saddle and socket diaphragm seal

The saddle and socket seal are the best solution when the diaphragm need to be as closest as possible to the process media. These are typically installed by welding to the process pipes with fluid at high viscosity. Saddle and socket process connection fittings are available as option selection, available only in AISI 316 L ss.

Pressure limits

Seal model	Temperature range	Pressure limit
S26VN bolting		
Alloy steel	0 37.8 °C (32 100 °F)	16 MPa, 160 bar, 2320 psi
	-48.3 0 °C (-55 32 °F)	10 MPa, 100 bar, 1450 psi
	37.8 360 °C (100 680 °F)	10 MPa, 100 bar, 1450 psi

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Seals model S26VN	Process temperature limits
PTFE gasket	-100 and 260 °C (-148 and 500 °F)
Graphite gasket	-100 and 360 °C (-148 and 680 °F)

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature error

b) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

S26VN saddle & socket	Sensor URL	Seal error (process)	Direct mount system	Remote mount	1 metre capillary	
seal size - Mnemonic			error (ambient)	error (ambient)	error (ambient)	
1 1/2 in P1.5	≥ 160 kPa, 642 inH2O	0.74 kPa, 3 inH2O	0.67 kPa, 2.68 inH2O	0.62 kPa, 2.48 inH2O	0.31 kPa, 1.24 inH2O	



Fitting connection	Dimensions mm. (in.) for S26VN- saddle type					
Size	A (dia)	В	C (dia)	R		
Saddle 2 in.	55 (2.17)	48 (1.89)	40 (1.57)	30		
Saddle 2 1/2 in.	76 (3.0)	45 (1.77)	52 (2.05)	45		
Saddle 3 in.	76 (3.0)	45 (1.77)	50 (1.97)	45		
Saddle 4 in.	76 (3.0)	41 (1.61)	50 (1.97)	57		
Saddle 5 in.	76 (3.0)	40 (1.57)	50 (1.97)	70		
Saddle 6 in.	76 (3.0)	36 (1.42)	50 (1.97)	85		

Fitting connection	Dimensions mm. (in.) for S26VN- socket type				
Size	A (dia)	В	С		
Socket 1/2 in.	21.8 (0.86)	15.9 (0.63)	86 (3.39)		
Socket 3/4 in.	27 (1.06)	21.2 (0.83)	96 (3.78)		
Socket 1 in.	33.6 (1.32)	26.8 (1.06)	101 (3.98)		
Socket 1 1/2 in.	48.5 (1.91)	41 (1.61)	121 (4.76)		
Socket 2 in.	60.5 (2.38)	52.5 (2.07)	121 (4.76)		

BASIC ORDERING INFORMATION model S26VN Socket and saddle diaphragm seals

	aon oatogory and opcony	complete eatalog ne							
BASE MODEL - 1 st to 5 th characters		S 2 6 V N	Х	хх	х	Х	Х	х	Х
Socket and saddle diaphragm seal									
Transmitter Side of Connection - 6th character							conti	nued	
High pressure side			Н			S	ee nex	t pag	е
Low pressure side			L						
Diaphragm Material - 7 th and 8 th characters									
AISI 316 L ss		NACE		SM					
Hastelloy C-276		NACE		ΗM					
Hastelloy C-2000		NACE		MM					
Inconel 625		NACE		LM					
Tantalum				ΤM					
AISI 316 L ss gold plated		NACE		NM					
Superduplex ss (UNS S32750 to ASTM SA479)		NACE		EM					
Capillary Protection - 9th character									
AISI 316 L ss armour					А				
AISI 316 L ss armour with PVC protective cover					В				
Extension tube for direct mount seal	(Note 1)				Ν				

BASIC ORDERING INFORMATION m	nodel S26VN		S 2 6 V N X XX X X	X	Х	Х
Capillary Length m (Feet) - 10th char	acter					
Direct-mount construction		(Note 2)	1			
1 (3)		(Note 3)	A			
1.5 (5)		(Note 3)	В			
2 (7)		(Note 3)	С			
2.5 (8)		(Note 3)	D			
3 (10)		(Note 3)	E			
3.5 (12)		(Note 3)	F			
4 (13)		(Note 3)	G			
4.5 (15)		(Note 3)	Н			
5 (17)		(Note 3)	J			
Fill Fluid - 11th character						
Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)			S		
Silicone oil Baysilone PD5 5 cSt	(-85 to 250 °C; -121 to 480 °F)			Ρ		
Inert oil - Galden G5	(Oxygen service)	(Note 4)		Ν		
Inert oil - Halocarbon 4.2	(Oxygen service)	(Note 4)		D		
Silicone oil for high temperature	(-10 to 375 °C; 14 to 707 °F)			G		
Silicone polymer Syltherm XLT	(-100 to 100 °C; -148 to 212 °F)			С		
Mineral oil Esso Marcol 152	(FDA approved)	(Note 5)		W		
Vegetable oil Neobee M-20	(FDA approved)	(Note 5)		А		
Glycerin-water 70%	(FDA approved)	(Note 5)		В		
Process Fitting Connections - 12th c	haracter					
Not required					Ν	
Saddle 2 in.					1	
Saddle 2 1/2 in.					2	
Saddle 3 in.					3	
Saddle 4 in.					4	
Saddle 5 in.					5	
Saddle 6 in.					6	
Socket 1/2 in.					А	
Socket 3/4 in.					В	
Socket 1 in.					С	
Socket 1 1/2 in.					D	
Socket 2 in.					E	
Gasket - 13th character						
PTFE						2
Graphite						7

Note 1: Not available with transmitter side of connection code L Note 2: Not available with capillary protection code A, B Note 3: Not available with capillary protection code N Note 4: Suitable for oxygen service Note 5: Suitable for food application

S26UN Model Union connection remote diaphragm seal

The union connection remote seal are used exclusively for pressure measurement with gauge pressure transmitter. The seal is available with an optional weld bushing, or with an optional chemical tee flange. The remote seal with a weld bushing, includes a bushing which provides the mating surface for the seal element. The union connection seal with a chemical tee flange, is designed to connect to any process fitting which accepts a chemical tee seal element (refer to Chemical Tee Seal for more information). The union seal connects to the chemical tee flange which serves as an adaptor to permit connection of the union seal to a chemical tee type fitting.

Pressure limits

Seal model S26UN	
Union Connection)	10.3 MPa, 103 bar, 1500 psi
With Chemical Tee Flange	2 MPa, 20 bar, 300 psi

Vacuum service

Full vacuum subject to fill fluid limits. Refer to FILL FLUID CHARACTERISTICS table.

Process temperature limits

Refer to FILL FLUID CHARACTERISTICS table and as follows for specific variants.

Material	
Silicone rubber gasket	-50 and 204 °C
	(-58 and 400 °F)
PTFE gasket	-100 and 260 °C
	(-148 and 500 °F)

Temperature effect

The following table shows temperature effect per 20 K (36 $^\circ\text{F})$ change, detailed separately for

a) the seal (one element), as process temperature errorb) the capillary per meter

c) the system (transmitter sensor when combined with a seal of specific size/type, either direct mount or remote) referred to silicone oil (PMX 200) filling and AISI 316 L ss diaphragm materials.

For filling different from silicone oil (PMX 200) the errors can be multiplied by ratio between the thermal expansion coefficients of the selected filling divided by the one of PMX 200, listed in the fill fluid characteristics table.

THE ERRORS IN TABLE CAN BE CONSIDERED DIVIDED BY 4 FOR TRANSMITTERS USING SAME REMOTE SEAL ON THE TWO SIDES

	Selisor Unl	Seal error (process)	Remote system error	1 metre capillary
seal size - Mnemonic			(ambient)	error (ambient)
1 1/2 in Z1.5	≥ 160 kPa, 642 inH2O	0.29 kPa, 1.16 inH2O	0.62 kPa, 2.48 inH2O	0.31 kPa, 1.24 inH2O



Union connection remote seal - basic version


Union connection remote seal with Chemical Tee flange



Union connection remote seal with weld bushing

Model S26 seals for remote and direct mount

BASIC ORDERING INFORMATION model S26UN Union connection remote diaphragm seals

Select one character or set of characters from each category and specify complete catalog number.

	BASE MODEL - 1 st to 5 th characters			S 2 6 U N	X	Х	XX	х	Х	Х	Х	Х
Transitier Side of Connection - 6* character H High pressure side H High pressure side H Size - 7* character L Daphragm Material - 8* and 9* characters NACE SL ASI 316 Ls NACE SL ASI 316 Ls a armour with PVC protective cover B Capillary Protection - 10* character A ASIS 316 Ls a armour with PVC protective cover B Capillary Length m (Feet) - 11* character A 1(3) A 1.5 (5) B 2 (7) C A 3 (10) E F 3 (10) E F 3 (10) E F 3 (10) Silicone oil PMX 200 10 cfs1 Silicone oil PMX 200 10 cfs1 FII Fluid - 12th character Silicone oil PMX 200 10 cfs1 Silicone oil PMX 200 10 cfs1 Silicone oil PMX 200 10 cfs1 (Ab to 250 °C; -121 to 480 °F) Silicone oil PMX 200 10 cfs1 Inet oil - Galdan G5 (Oxygen service) (Note 1) D Silicone oil PMX 200 10 cfs1 (Ab to 250 °C; -142 to	Union connection remote diaphragm seal											
High pressure side H Size - 7° character L Daphragm Material - 8° and 9° characters NACE SL Alls 310 L ss NACE SL Alls 310 L ss amour with PCO protective cover All All SL3 310 L ss amour with PCO protective cover All Bis Capillary Longth m (Feet) - 11" character All Bis 1,5 (5) All All Bis 2 (7) C C C 3 (10) Sis (12) F G 3 (10) Sis (14) Sis (14) Sis (14) Sis (14) 5 (17) Sis (18) G G 3 (10) Sis (18) G G 3 (10) Sis (18) Sis (18) Sis (18) Sis (12) G G G Sis (12) G G G </td <td colspan="3">Transmitter Side of Connection - 6th character</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Transmitter Side of Connection - 6th character											
Size - 7" or character	High pressure side				Н							
1 1/2 in. L Daphragm Material - S° and 9° characters NACE SL ASI 316 L Ss a mour NACE KL Capillary Protection - 10° character A ASI 316 L Ss armour with PVC protective cover B Capillary Length m (Feet) - 11° character A 1 (3) K B 2 (7) K A 2 (7) K B 2 (7) K C 2 (7) K B 2 (7) K C 2 (7) K C 2 (7) K C 2 (7) K C 3 (10) K F 4 (13) K F 4 (13) K F 5 (12) K K6 to 250 °C; -121 to 480 °F) F 1 (1) K K F 5 (12) K K6 to 250 °C; -121 to 480 °F) F 1 (7) K G K 5 (12) K K6 to 250 °C; -121 to 480 °F) F 1 (7) K <td< td=""><td>Size - 7th character</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Size - 7 th character											
Diaphragm Material - 8° and 9° characters NACE SL AIS 136 Las NACE SL AIS 136 Las NACE HL Capillary Protection - 10° character A AIS 136 Las armour with PVC protective cover A AIS 136 Las armour with PVC protective cover A Capillary Length m (Feet) - 11° character A 1 (3) A 2 (7) A 2 (7) B 2 (7) C 2 (7) C 3 (5 (12) C 3 (10) C 3 (10) C 3 (13) C 3 (17) C 4 (13) G 4 (13) G 5 (17) S 5 (16) C 5 (17) S 5 (10) C 6 (17) Note 1) 1 (14) 12 (14) 0.250 °C; -121 to 480 °F) 1 (14) 12 (15) 1 (16) 12 (15) 0.27 (12) 1.070 °F) 1 (16) G	1 1/2 in.					L						
AN3 13 L ss NACE NL Hastelioy C-276 NACE HL Als 316 L ss armour A Als 316 L ss armour with PVC protective cover B Capillary Protection - 10° character B 1 (3) A 1.5 (5) B 2 (7) B 2 (7) C 2 (7) C 2 (7) C 3 (10) E 3 (10) G 4 (13) G 4 (13) G 4 (13) G 5 (15) H 5 (17) G 7 (7) J 7 (7) J 7 (17) J 9 (10) S 9 (10) S 9 (11) H 9 (11) H 9 (11) P 1 (13) G 9 (10) M (10) 1 (14) G (15) 9 (10) M (10) 1 (16) G (16) 9 (10) M (10) 1	Diaphragm Material - 8th and 9th ch	aracters										
Hastelloy C-276 NACE HL Capillary Protection - 10°° character A ASI3 16 L ss armour with PVC protective cover B Capillary Length m (Feet) - 11°° character B 1 (3) A 1 (5) A 2 (7) C 2 (7) C 2 (7) C 3 (10) C 3 (10) C 3 (10) C 4 (13) G 4 (13) G 4 (13) G 5 (17) J FII Fluid - 12th character G Silicone oil PAX 200 10 cSt (-40 to 250 °C; -40 to 480 °F) G Inert oil - Galden G5 (Oxygen service) (Note 1) N Inert oil - Balocarbon 4.2 (Oxygen service) (Note 1) D Silicone oil PAX 200 10 cS1 (-10 to 100 °C; -14 to 490 °F) C G Silicone oil Pohyme Syttherm XLT (10 to 100 °C; -14 to 490 °F) C G Silicone oil Pohyme Sythterm XLT (10 to 100 °C; -14 to 492 °C) X <td>AISI 316 L ss</td> <td></td> <td></td> <td>NACE</td> <td></td> <td></td> <td>SL</td> <td></td> <td></td> <td></td> <td></td> <td></td>	AISI 316 L ss			NACE			SL					
Capillary Protection - 10° character A AIS 316 L ss armour with PVC protector cover B AISI 316 L ss armour with PVC protector cover B Capillary Longth m (Feet) - 11° character A 1 (3) A 2 (7) C 2 (8) D 3 (10) E 3 (10) E 3 (10) G 4 (13) G 4 (13) G 4 (13) G 4 (13) G 5 (17) G 7) J 5 (16) F 5 (17) G 6 (15) F 7) G 5 (17) J 6 (15) F 5 (17) J 6 (16) G (16) 9 (17) J 10 (16) class of (20 (20 (2) (-40 to 480 °F) 10 (16) class of (20 (20 (20 (2) (-121 to 480 °F) 10 (16) class of (20 (20 (20 (20 (20 (20 (20 (20 (20 (20	Hastelloy C-276			NACE			HL					
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Capillary Length m (Feet) - 11 th character A 1 (3) A 1 (5) B 2 (7) C 2 (7) D 3 (10) E 3 (10) F 4 (13) F 4 (13) G 4 (13) G 5 (17) J Fill Fluid - 12th character J Silicone oil PMX 200 10 CSt (-40 to 250 °C; -40 to 480 °F) F Silicone oil Baysilone PD5 5 cSt (-46 to 250 °C; -121 to 480 °F) P Inet oil - Galden GS (Oxygen service) (Note 1) N 1 net oil - Galden GS (Oxygen service) (Note 1) N Silicone oil Dri high temperature (-10 to 375 °C; 14 to 707 °F) G G Silicone oil Saysilone PD5 (CPDA approved) (Note 2) W V Vegetable oil Neobee M-20 (FDA approved) (Note 2) W V Vegetable oil Neobee M-20 (FDA approved) (Note 2) A A AlSi 316 ss weld Dushing 3 3 3 3 Chereulizet fange 3	AISI 316 L ss armour with PVC protective cover						В					
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Silicone oil Baysilone PD5 5 cSt (-85 to 250 °C; -121 to 480 °F) P Inert oil - Galden G5 (Oxygen service) (Note 1) N Inert oil - Halocarbon 4.2 (Oxygen service) (Note 1) D Silicone oil for high temperature (-10 to 375 °C; 14 to 707 °F) G G Silicone polymer Syttherm XLT (-100 to 100 °C; -148 to 212 °F) C M Mineral oil Esso Marcol 152 (FDA approved) (Note 2) W Vegetable oil Neobee M-20 (FDA approved) (Note 2) A Glycerin-water 70% (FDA approved) (Note 2) B Process Fitting Connections - 13 th c+aracter 3 3 Not required 1 3 4 AlSI 316 ss weld bushing 4 3 4 Chemical tee flange 4 4 4 Silicone rubber 5 1 5 PTFE 5 5 5 PTFE 5 5	Silicone oil PMX 200 10 cSt	(-40 to 250 °C; -40 to 480 °F)								S		
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Silicone rubber5PTFE8	Not required											1
PTFE 8	Silicone rubber											5
	PTFE											8

Note 1: Suitable for oxygen service Note 2: Suitable for food application

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