

Ring Type Joint (RTJ) Gaskets

Ring Type Joint gaskets are precision machined metallic gaskets generally used in high pressure applications such as the Oil, Gas, Petrochemical and Offshore industries.

This type of gasket is designed to be used in RTJ groove flanges and are produced under license to dimensions as per API-6A and ASME B16.20.

Details:-

*Ring Type Joints concentrate the bolt load over a small area producing high sealing stresses.

*As the Ring Type Joint Material should always be softer than the mating flanges, the high seating stress causes "plasticflow" of the ring joint in the flange faces creating the seal.

*RTJ Gaskets can be produced from a variety of material's to suit the process application and flange grade.

*Used on high pressure lines up to 20,000 PSI, RTJ's are an extremely reliable and robust sealing mechanism.

*Standard R type available R11 (1/2") to R105 (36") in Oval or Octagonal Section.

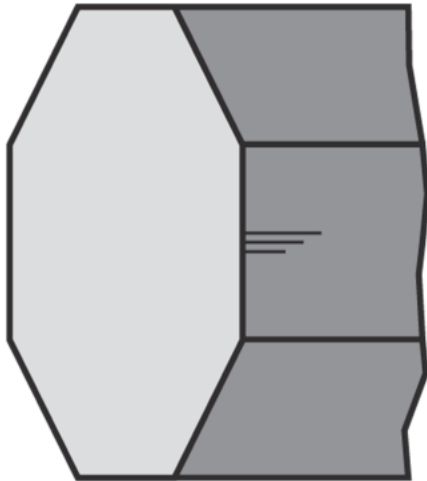
*BX, SBX & RX type available for Sub Sea application.

*IX Seal Rings used in Norsok Compact flange assemblies.

RTJ Gasket Profiles:-

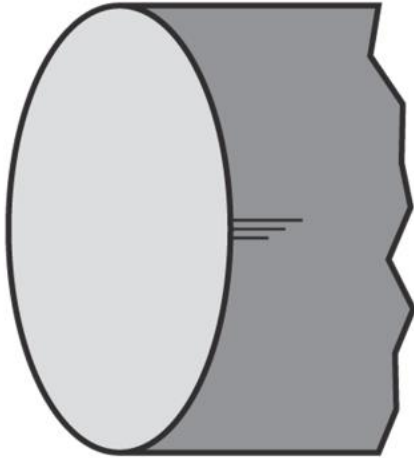
Oval and Octagonal section Ring type Joints are designed for flanges with standard ring type grooves. These standard shapes are used to seal pressures up to 5,000 psi in accordance with API 6A.

The Octagonal cross section has a higher sealing efficiency than the Oval cross section and is therefore preferred.



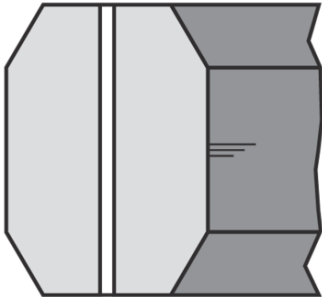
The oval section ring joints were originally designed for the now obsolete round bottom groove.

Both the Oval and the Octagonal cross section are interchangeable on the flat bottom groove design.



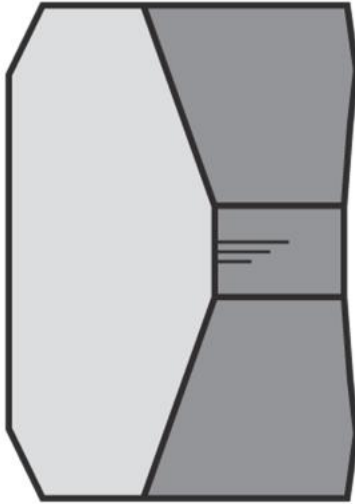
BX RTJ

BX Ring Type Joints are designed for pressures up to 20,000 psi, suitable only for use with API type BX flanges and grooves. The gasket has a square cross section with bevelled corners. The average diameter of the ring joint is slightly greater than that of the flange groove. This way, when the ring joint is seated, it stays precompressed by the outside diameter, creating high seating stress.



RX RTJ

RX Ring Type Joints are designed for pressures up to 5,000 psi, they are pressure activated ring joints designed to use the fluid pressure to increase sealability. The outside sealing surface of the ring joint makes the initial contact with the flange. As the internal pressure rises the contact pressure between ring joint and flange also increases. This is sometimes referred to as a pressure activated ring joint due to the shape of the gasket. High seating pressures are created increasing the sealability. This design characteristic makes the RX more resistant to vibrations, pressure surges and shocks that occur during oil well drilling.



RTJ Material Reference Chart

MATERIA	RING	ASTM	WERKSTOFF NO.	AISI/SAE	OTHER	MAX
Soft Iron	D	-	1.1003 / 1.0335	-	-	9
LCS	S	-	1.1003 / 1.0335	-	-	12
4140	414	UNS	1.7225	4140	-	21
SS316	S3	S31600	1.4401	316	-	160/135
SS316L	S31	S31603	1.4404	316L	-	160/135
SS316Ti	S31	S31635	1.4571	316Ti	-	16
SS304	S3	S30400	1.4301	304	-	16
SS304L	S30	S30403	1.4306	304L	-	16
SS321	S3	S32100	1.4541	321	-	16
SS347	S3	S34700	1.455	347	-	16
SS410	S4	S41000	1.4006	410	-	17
SS309	S3	S30900	1.4828	309	-	17
SS310	S3	S31088	1.4841	310	-	17
F5	F	UNS	1.7362	-	5Cr 1/2Mo	13

INCONEL	INC	NO6625	2.4856	-	-	20
INCONEL	INC	NO6600	2.4816	-	-	20
INCONEL	INC	NO7718	-	-	-	34-39
INCOLOY	INC	NO8825	2.4858	-	-	16
INCOLOY	INC	NO8800	1.4958	-	-	18
MONEL	MONEL 400	NO4400	2.436	-	-	15
F51	F5	S31803	1.4462	-	2205/DUPLEX	23
F53	F5	S32750	1.441	-	SUPER DUPLEX	23
F55	F5	S32760	1.4501	-	ZERON	23
F60	F6	S32205	-	-	DUPLEX	23
Titanium	T	R 50400	3.7035	-	-	21
S254	S2	S31254	1.4547	-	F44/6 Mo	18
C276	C2	N10276	2.4819	-	Hastelloy	21
Alloy 28	Alloy 28	NO8028	1.4563	-	Sanicro 28	19

Type R Oval and Octagonal Ring Type Joint Gaskets -In accordance ASME B16.20 / API 6A

RTJ Material Reference Chart

Type R Oval and Octagonal Ring Type Joint Gaskets -In accordance ASME B16.20 / API 6A*

RING NO	ASME B16.5 FLANGES / ASME B16.20					API 6B FLANGES / API 6A (psi)				PCD (mm)	WIDTH (mm)	RING HEIGHT		WEIGHT (kg)
	150	300-600	900	1500	2500	2000	3000	5000	10000			OVAL (mm)	OCT (mm)	
R11	-	1/2"	-	-	-	-	-	-	-	34.14	6.35	11.2	9.7	0.05
R12	-	-	1/2"	1/2"	-	-	-	-	-	39.7	7.95	14.2	12.7	0.1
R13	-	3/4"	-	-	1/2"	-	-	-	-	42.88	7.95	14.2	12.7	0.1
R14	-	-	3/4"	3/4"	-	-	-	-	-	44.45	7.95	14.2	12.7	0.11
R15	1"	-	-	-	-	-	-	-	-	47.63	7.95	14.2	12.7	0.12
R16	-	1"	1"	1"	3/4"	1"	1"	1"	-	50.8	7.95	14.2	12.7	0.12
R17	1.1/4"	-	-	-	-	-	-	-	-	57.15	7.95	14.2	12.7	0.14
R18	-	1.1/4"	1.1/4"	1.1/4"	1"	1.1/4"	1.1/4"	1.1/4"	-	60.33	7.95	14.2	12.7	0.15
R19	1.1/2"	-	-	-	-	-	-	-	-	65.1	7.95	14.2	12.7	0.16
R20*	-	1.1/2"	1.1/2"	-	1.1/2"	1.1/2"	1.1/2"	1.1/2"	-	68.28	7.95	14.2	12.7	0.17
R21	-	-	-	-	1.1/4"	-	-	-	-	72.24	11.13	17.5	16	0.3
R22	2"	-	-	-	-	-	-	-	-	82.55	7.95	14.2	12.7	0.2
R23*	-	2"	-	-	1.1/2"	2.1/16"	-	-	-	82.55	11.13	17.5	16	0.34
R24*	-	-	2"	2"	-	-	2.1/16"	2.1/16"	-	95.25	11.13	17.5	16	0.39
R25	2.1/2"	-	-	-	-	-	-	-	-	101.6	7.95	14.2	12.7	0.25
R26*	-	2.1/2"	-	-	2"	2.9/16"	-	-	-	101.6	11.13	17.5	16	0.42
R27	-	-	2.1/2"	2.1/2"	-	-	2.9/16"	2.9/19"	-	107.95	11.13	17.5	16	0.45
R28	-	-	-	-	2.1/2"	-	-	-	-	111.13	12.7	19.1	17.5	0.57
R29	3"	-	-	-	-	-	-	-	-	114.3	7.95	14.2	12.7	0.28
R30	-	3"	-	-	-	-	-	-	-	117.48	11.13	17.5	16	0.48
R31*	-	3"	3"	-	-	3.1/8"	3.1/8"	-	-	123.83	11.13	17.5	16	0.51
R32	-	-	-	-	3	-	-	-	-	127	12.7	19.1	17.5	0.65
R33	3.1/2"	-	-	-	-	-	-	-	-	131.78	7.95	14.2	12.7	0.32
R34	-	3.1/2"	-	-	-	-	-	-	-	131.78	11.13	17.5	16	0.54

R35*	-	-	-	3"	-	-	-	3.1/8"	-	136.53	11.13	17.5	16	0.56
R36	4"	-	-	-	-	-	-	-	-	149.23	7.95	14.2	12.7	0.37
R37*	-	4"	4"	-	-	4.1/16"	4.1/16"	3.1/2"	-	149.23	11.13	17.5	16	0.62
R38	-	-	-	-	4"	-	-	-	-	157.18	15.88	22.4	20.6	1.16
R39*	-	-	-	4"	-	-	-	4.1/16"	-	161.93	11.13	17.5	16	0.67
R40	5"	-	-	-	-	-	-	-	-	171.45	7.95	14.2	12.7	0.42
R41	-	5"	5"	-	-	5.1/8"	5.1/8"	-	-	180.98	11.13	17.5	16	0.75
R42	-	-	-	-	5	-	-	-	-	190.5	19.05	25.4	23.9	1.91
R43	6"	-	-	-	-	-	-	-	-	193.68	7.95	14.3	12.7	0.48
R44*	-	-	-	5"	-	-	-	5.1/8"	-	193.68	11.13	17.5	16	0.8
R45*	-	6"	6"	-	-	7.1/16"	7.1/16"	-	-	211.15	11.13	17.5	16	0.87
R46*	-	-	-	6"	-	-	-	7.1/16"	-	211.15	12.7	19.05	17.5	1.08
R47*	-	-	-	-	6"	-	-	-	-	228.6	19.05	25.4	23.9	2.3
R48	8"	-	-	-	-	-	-	-	-	247.65	7.95	14.3	12.7	0.61
R49*	-	8"	8"	-	-	9"	9"	-	-	269.88	11.13	17.5	16	1.11
R50*	-	-	-	8"	-	-	-	9"	-	269.88	15.88	22.22	20.6	1.99
R51	-	-	-	-	8"	-	-	-	-	279.4	22.23	28.6	26.9	3.69
R52	10"	-	-	-	-	-	-	-	-	304.8	7.95	14.3	12.7	0.75
R53*	-	10"	10"	-	-	11"	11"	-	-	323.85	11.13	17.5	16	1.34
R54*	-	-	-	10"	-	-	-	11"	-	323.85	15.88	22.22	20.6	2.39
R55	-	-	-	-	10"	-	-	-	-	342.9	28.58	36.51	35.1	7.68
R56	12"	-	-	-	-	-	-	-	-	381	7.95	14.3	12.7	0.93
R57	-	12"	12"	-	-	13.5/8"	13.5/8"	-	-	381	11.13	17.5	16	1.57
R58	-	-	-	12"	-	-	-	-	-	381	22.23	28.6	26.9	5.03
R59	14"	-	-	-	-	-	-	-	-	396.88	7.95	14.5	12.7	0.98
R60	-	-	-	-	12"	-	-	-	-	406.4	31.75	39.7	38.1	11.09
R61	-	14"	-	-	-	14"	14"	-	-	419.1	11.13	17.5	16	1.73
R62	-	-	14"	-	-	-	-	-	-	419.1	15.88	22.22	20.6	3.09
R63*	-	-	-	14"	-	-	-	-	-	419.1	25.4	33.33	31.8	7.54
R64	16"	-	-	-	-	-	-	-	-	454.03	7.95	14.2	12.7	1.12
R65*	-	16"	-	-	-	16.3/4"	16.3/4"	-	-	469.9	11.13	17.5	16	1.89
R66*	-	-	16"	-	-	-	-	-	-	469.9	15.88	22.4	20.6	3.4
R67	-	-	-	16"	-	-	-	-	-	469.9	28.58	36.6	35.1	10.53
R68	18"	-	-	-	-	-	-	-	-	517.53	7.95	14.2	12.7	1.28
R69*	-	18"	-	-	-	18"	-	-	-	533.4	11.13	17.5	16	2.2
R70*	-	-	18"	-	-	-	18"	-	-	533.4	19.05	25.4	23.9	5.35
R71	-	-	-	18"	-	-	-	-	-	533.4	28.58	36.6	35.1	11.95
R72	20"	-	-	-	-	-	-	-	-	558.8	7.95	14.2	12.7	1.38
R73*	-	20"	-	-	-	20.3/4"	-	-	-	584.2	12.7	19.1	17.5	2.99

RING NO	ASME B16.5 FLANGES / ASME B16.20					API 6B FLANGES / API 6A (psi)				PCD (mm)	WIDTH (mm)	RING HEIGHT		WEIGHT (kg)
	150	300-600	900	1500	2500	2000	3000	5000	10000			OVAL (mm)	OCT (mm)	
R74*			20"	-	-	-	20.3/4"	-	-	584.2	19.05	25.4	23.9	5.85
R75	-	-	-	20"	-	-	-	-	-	584.2	31.75	39.6	38.1	15.94
R76	24"	-	-	-	-	-	-	-	-	673.1	7.95	14.2	12.7	1.66
R77	-	24"	-	-	-	-	-	-	-	692.15	15.88	22.4	20.6	5.11
R78	-	-	24"	-	-	-	-	-	-	692.15	25.4	33.3	31.8	12.46
R79	-	-	-	24"	-	-	-	-	-	692.15	34.93	44.5	41.4	22.58
R80	22"	-	-	-	-	-	-	-	-	615.95	7.95	14.29	12.7	1.59
R81	-	22"	-	-	-	-	-	-	-	635	14.3	20.64	19.1	4.05
R82*	-	-	-	-	-	-	-	-	1"	57.15	11.13	17.46	16	0.23
R84*	-	-	-	-	-	-	-	-	1.1/2"	63.5	11.13	17.46	16	0.25
R85*	-	-	-	-	-	-	-	-	2"	79.38	12.7	19.05	17.5	0.4
R86*	-	-	-	-	-	-	-	-	2.1/2"	90.5	15.88	22.22	20.6	0.65
R87*	-	-	-	-	-	-	-	-	3"	100.03	15.88	22.22	20.6	0.72
R88*	-	-	-	-	-	-	-	-	4"	123.83	19.05	25.4	23.9	1.22
R89*	-	-	-	-	-	-	-	-	3.1/2"	114.3	19.05	25.4	23.9	1.13
R90*	-	-	-	-	-	-	-	-	5"	155.58	22.23	28.58	26.9	2.05
R91*	-	-	-	-	-	-	-	-	10"	260.35	31.75	39.68	38.1	7.1

R92	-	-	-	-	-	-	-	-	-	228.6	11.13	17.5	16	0.94
R93	-	26"	-	-	-	-	-	-	-	749.3	19.05	25.4	23.9	7.4
R94	-	28"	-	-	-	-	-	-	-	800.1	19.05	25.4	23.9	7.9
R95	-	30"	-	-	-	-	-	-	-	857.25	19.05	25.4	23.9	8.47
R96	-	32"	-	-	-	-	-	-	-	914.4	22.23	28.58	26.9	12.08
R97	-	34"	-	-	-	-	-	-	-	965.2	22.23	28.58	26.9	12.75
R98	-	36"	-	-	-	-	-	-	-	1022.35	22.23	28.58	26.9	13.51
R99*	-	-	-	-	-	8"	8"	-	-	234.95	11.13	17.46	16	0.95
R100	-	-	26"	-	-	-	-	-	-	749.3	28.58	36.51	35.1	16.79
R101	-	-	28"	-	-	-	-	-	-	800.1	31.75	39.68	38.1	21.83
R102	-	-	30"	-	-	-	-	-	-	857.25	31.75	39.68	38.1	23.39
R103	-	-	32"	-	-	-	-	-	-	914.4	31.75	39.68	38.1	24.95
R104	-	-	34"	-	-	-	-	-	-	965.2	34.93	44.45	41.4	31.49
R105	-	-	36"	-	-	-	-	-	-	1022.35	34.93	44.45	41.4	33.35



BX Ring Type Joint Gaskets - In accordance ASME B16.20 / API 6A

RING NO	API 6B FLANGES / API 6A (psi)						OD (mm)	HEIGHT (mm)	WIDTH (mm)	HOLE SIZE (mm)	WEIGHT (kg)
	2000	3000	5000	10000	15000	20000					
BX150	-	-	-	1.11/16"	1.11/16"	-	72.19	9.3	9.3	1.5	0.134
BX151	-	-	-	1.13/16"	1.13/16"	1.13/16"	76.4	9.63	9.63	1.5	0.153
BX152	-	-	-	2.1/16"	2.1/16"	2.1/16"	84.68	10.24	10.24	1.5	0.193
BX153	-	-	-	2.9/16"	2.9/16"	2.9/16"	100.94	11.38	11.38	1.5	0.287
BX154	-	-	-	3.1/16"	3.1/16"	3.1/16"	116.84	12.4	12.4	1.5	0.398
BX155	-	-	-	4.1/16"	4.1/16"	4.1/16"	147.96	14.22	14.22	1.5	0.555
BX156	-	-	-	7.1/16"	7.1/16"	7.1/16"	237.92	18.62	18.62	3	1.882
BX157	-	-	-	9"	9"	9"	294.46	20.98	20.98	3	2.977
BX158	-	-	-	11"	11"	11"	352.04	23.14	23.14	3	4.364
BX159	-	-	-	13.5/8"	13.5/8"	13.5/8"	426.72	25.7	25.7	3	6.55
BX160	-	-	13.5/8"	-	-	-	402.59	23.83	13.74	3	3.068
BX161	-	-	16.3/4"	-	-	-	491.41	28.07	16.21	3	5.35
BX162	-	-	16.3/4"	16.3/4"	-	-	475.49	14.22	14.22	1.5	1.99
BX163	-	-	18.3/4"	-	-	-	556.16	30.1	17.37	3	6.534

BX164	-	-	-	18.3/4"	18.3/4"	-	570.56	30.1	24.59	3	9.545
BX165	-	-	21.1/4"	-	-	-	624.71	32.03	18.49	3	8.76
BX166	-	-	-	21.1/4"	-	-	640.03	32.03	26.14	3	12.82
BX167	26.3/4"	-	-	-	-	-	759.36	35.86	13.11	1.5	8.53
BX168	-	26.3/4"	-	-	-	-	765.25	35.86	16.05	1.5	11.14
BX169	-	-	-	5.1/8"	-	-	173.51	15.85	12.93	1.5	0.73
BX170	-	-	-	6.5/8"	6.5/8"	-	218.03	14.22	14.22	1.5	1.03
BX171	-	-	-	8.9/16"	8.9/16"	-	267.44	14.22	14.22	1.5	1.24
BX172	-	-	-	11.5/32"	11.5/32"	-	333.07	14.22	14.22	1.5	1.56
BX303	30"	30"	-	-	-	-	852.75	37.95	16.97	1.5	-

RX Ring Type Joint Gaskets - In accordance ASME B16.20 / API 6A

RING NO	API 6B FLANGES / API 6A (psi)				OD	HEIGHT	WIDTH	HOLE SIZE	WEIGHT
	2000	2900	3000	5000	(mm)	(mm)	(mm)	(mm)	(kg)
RX20	1.1/2"	-	1.1/2"	1.1/2"	76.2	19.05	8.4	-	0.24
RX23	2.1/16"	-	-	-	93.27	25.4	11.91	-	0.52
RX24	-	-	2.1/16"	2.1/16"	105.97	25.4	11.91	-	0.6
RX25	-	-	-	3.1/8"	109.55	19.05	8.74	-	0.65
RX26	2.1/2" - 2.9/16"	-	-	-	111.91	25.4	11.91	-	0.68
RX27	-	-	2.1/2" - 2.9/16"	2.1/2" - 2.9/16"	118.26	25.4	11.91	-	0.68
RX31	3" - 3.1/8"	-	3" - 3.1/8"	-	134.54	25.4	11.91	-	0.78
RX35	-	-	-	3" - 3.1/8"	147.24	25.4	11.91	-	0.86
RX37	4" - 4.1/16"	-	4" - 4.1/16"	-	159.94	25.4	11.91	-	0.95
RX39	-	-	-	4" - 4.1/16"	172.64	25.4	11.91	-	1.03
RX41	5" - 5.1/8"	-	5" - 5.1/8"	-	191.69	25.4	11.91	-	1.15
RX44	-	-	-	5" - 5.1/8"	204.39	25.4	11.91	-	1.23
RX45	6" - 7.1/16"	-	6" - 7.1/16"	-	221.84	25.4	11.91	-	1.34
RX46	-	-	-	6" - 7.1/16"	222.25	28.58	13.49	-	1.66
RX47	-	-	-	8"	245.26	41.28	19.84	-	3.88
RX49	8" - 9"	-	8" - 9"	-	280.59	25.4	11.91	-	1.72
RX50	-	-	-	8" - 9"	283.36	31.75	16.66	-	2.43
RX53	10" - 11"	-	10" - 11"	-	334.57	25.4	11.91	-	2.06
RX54	-	-	-	10" - 11"	337.34	31.75	16.66	-	2.92
RX57	12" - 13 5/8"	-	12" - 13 5/8"	-	391.72	25.4	11.91	-	2.42
RX63	-	-	-	14"	441.73	50.8	27	-	11.96
RX65	16" - 16 3/4"	-	-	-	480.62	25.4	11.91	-	3
RX66	-	-	16" - 16.3/4"	-	457.99	31.75	16.66	-	4.26
RX69	18"	-	-	-	544.12	25.4	11.91	-	3.41
RX70	-	-	18"	-	550.06	41.28	19.84	-	9.15
RX73	20" - 21.1/4"	-	-	-	596.11	31.75	13.49	-	5.27
RX74	-	-	20" - 20.3/4"	-	600.86	41.28	19.84	-	10.01
RX82	-	1"	-	-	67.87	25.4	11.91	1.5	0.36
RX84	-	1.1/2"	-	-	74.22	25.4	11.91	1.5	0.4
RX85	-	2"	-	-	90.09	25.4	13.49	1.5	0.4
RX86	-	2.1/2"	-	-	103.58	28.58	15.09	2.3	0.81

RX87	-	3"	-	-	113.11	28.58	15.09	2.3	0.9
RX88	-	4"	-	-	139.29	31.75	17.48	3	1.46
RX89	-	3.1/2"	-	-	129.77	31.75	18.26	3	3.1
RX90	-	5"	-	-	174.63	44.45	19.84	3	7.75
RX91	-	10"	-	-	286.94	45.24	30.18	3	1.5
RX99	8"	-	8"	-	245.67	25.4	11.91	-	2.2
RX201	-	-	-	1.3/8"	51.46	11.3	5.74	-	0.1
RX205	-	-	-	1.13/16"	62.31	11.1	5.56	-	0.13
RX210	-	-	-	2.9/16"	97.64	19.05	9.53	-	0.35
RX215	-	-	-	4.1/16"	140.89	25.4	11.91	-	0.8

Gasket(SWG)

General information and description

The sealing element of the spiral wound gasket consists of a v-shaped metal strip spirally wound in combination with a soft sealing material filler. The metal strip provides outstanding resilience, while the flexible sealing filler guarantees excellent sealing. Due to this combination of materials the spiral wound gasket is suitable for sealing under severely fluctuating temperature and pressure conditions. Depending on the application the spiral wound gasket can be specified with outer and/or inner rings.

Characteristics

- The spiral wound gasket is suitable for use across a wide pressure range and is therefore, virtually applicable.
- The spiral wound gasket can be used to seal fluid pressures up to 250 bar and damage (although extra care should be taken during transportation and installation of large diameter gasket without guide rings).
- The outer guide ring serves to locate the spiral element centrally on the flange faces and prevent blow-out.
- By combining different winding materials and metals the gasket can be tailored to a wide variety of operating conditions.
- Due to its non-adhesive character the gasket is easy to remove after service.
- The gasket does not cause damage to the flange faces

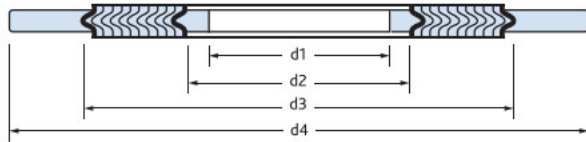
TSG SM01 SWG without guide or inner ring

This style of gasket is mainly used for male and female flanges or projection and recess flanges and used in load-bearing flange configurations, such as tongue and groove flanges. Standard dimensions according to EN/ASME.

Material	DIN specification	DIN Nr.	AISI/ASTM UNS	B.S.	Temp. [°C]	
					min	max
Carbon steel	RSt. 37.2 CS	1.0038	238-C	40B	-40	500
SS 304	X5CrNi 18	1.4301	304	304S15/16/31	-250	550
SSI 304L	X2CrNi 189	1.4306	304L	304S11	-250	550
SS 309	X15CrNiSi 2012	1.4828	309	309S24	-100	1000
SSI 316	X5CrNiMo 1810	1.4401	316	316S31/33	-100	550
SS 316L	X2CrNiMo 1810	1.4404	316L	316S11/13	-100	550
SS 316Ti	X10CrNiMoTi 1810	1.4571	316Ti	320S31	-100	550
SS 321	X10CrNiTi 189	1.4541	321	321S12/49/87	-250	550
SS 347	X6CrNiNb 1810	1.4550	347	347S31	-250	550
Monel 400	NiCu 30 Fe	2.4360	NO4400	3072-76NA13	-125	600
Inconel 600	NiCr 15 Fe	2.4816	NO6600	3072-76NA14	-100	950
Incoloy 800	X10NiCrAlTi 3220	1.4876	NO8800	3072-76NA15	-100	850
Incoloy 825	NiCr 21 Mo	2.4858	NO8825	3072-76NA16	-100	450
Hastelloy B2	NiMo 28	2.4617	N10665	---	-200	450
Hastelloy C276	NiMo16Cr15W	2.4819	N10267	---	-200	450
Titanium (gr.1)	Ti 99,8	3.7025	---	---	-250	350

- Dimensions are in millimeters unless otherwise indicated.
- Image shows a Spiral Wound gasket with Inner - and Outer ring.
- d1 = Inside diameter when Inner ring is used.
- d2 = Inside diameter sealing element when no Inner ring is used.
- d3 = Outside diameter of sealing element.
- d4 = Outside diameter of Outer ring.
- Thickness of inner and outer ring.. 2.97 mm - 3.33 mm.
- Thickness sealing element.. 4.45 mm.
- Tolerance Outside diameter for NPS 1/2 through NPS 8 is ± 0.8 mm; for NPS 10 trough NPS 24 tolerance is + 1.5 mm - 0.8 mm.
- ASME B16.20 does not covers class 400 flanges up to NPS 3 and class 900 flanges up to NPS 2.1/2.
- There are no class 400 flanges NPS 1/2 thru NPS 3 (use Class 600), class 900 flanges NPS 1/2 thru NPS 2.1/2 (use Class 1500), or class 2500 flanges NPS 14 or larger.
- The inner ring inside diameters shown for NPS 1.1/4 thru 2.1/2 in class 1500 and 2500 will produce inner ring widths of 0.12 inches, a practical minimum for production purposes.

- ASME B16.20 which covers spiral wound gaskets requires the use of solid metal inner rings in.. Pressure Class 900, nominal pipe sizes 24 and larger, Pressure Class 1500 from nominal pipe sizes 12 and larger, Pressure Class 2500 from nominal pipe sizes 4 and larger and all PTFE filled gaskets.



- Marking of Spiral Wound Gaskets

