



Las juntas RTJ están diseñadas para trabajar con altos valores de temperatura y presión. Por este motivo para que la estanqueidad sea máxima es imprescindible que la superficie de la brida sea lo más lisa posible, sin rugosidades ni marcas de herramienta (63 RMS máx.)

La RTJ se deforma plásticamente y sella las irregularidades de la superficie que contacta, por lo que el material de la junta debe ser siempre más blando que el de la brida. Esta diferencia debe ser de, por lo menos, 30 HB. En el caso de que los materiales de la junta tipo RTJ y de la brida tuvieran una dureza semejante, será necesario realizar un tratamiento térmico a la junta RTJ para reducir la dureza.

Las juntas RTJ tienen una recuperación muy escasa. El sellado se produce por la acción de la carga axial sobre la junta.

Nuestra fabricación de juntas RTJ se basa en la norma ASME B16.20, generalmente en perfil octogonal y oval y en diversos materiales como AISI 304, 316L, 321, 347, INCOLOY 800, INCONEL 600, MONEL400, etc.

JUNTAS RTJ



RING JOINTS TG30 - TG31 según ASME (ANSI) B16.20, API Std 6a

DIAMETRO NOMINAL / PRESIÓN NOMINAL NOMINAL PIPE SIZE / NOMINAL PRESSURE					TOLERANCIAS TOLERANCES			DIMENSIONES / DIMENSIONS				PESO / WEIGHT							
ASME-ANSI B16.5					ASME B16-47 A					± 0,38	± 0,38	± 0,17	± 0,39	± 0,39	± 0,20	± 0,20	OVAL Kg	OCTO Kg	
150	300-600	900	1500	2500	300-600	900	2000	3000	5000	R	OD (mm)	ID (mm)	P (mm)	B (mm)	H (mm)	A (mm)	C (mm)	OVAL Kg	OCTO Kg
	1/2									R11	40.49	27.79	34.14	11.18	9.65	6.35	4.32	0.05	0.05
		1/2	1/2							R12	47.65	31.75	39.70	14.22	12.70	7.95	5.23	0.10	0.10
	3/4			1/2						R13	50.83	34.93	42.88	14.22	12.70	7.95	5.23	0.10	0.10
		3/4	3/4							R14	52.40	36.50	44.45	14.22	12.70	7.95	5.23	0.11	0.11
1									1	R15	55.58	39.68	47.63	14.22	12.70	7.95	5.23	0.12	0.11
	1	1	1	3/4			1	1		R16	58.75	42.85	50.80	14.22	12.70	7.95	5.23	0.12	0.11
1 1/4									1 1/4	R17	65.10	49.20	57.15	14.22	12.70	7.95	5.23	0.14	0.13
	1 1/4	1 1/4	1 1/4	1			1 1/4	1 1/4		R18	62.28	52.38	60.33	14.82	12.70	7.95	5.23	0.15	0.14
1 1/2									1 1/2	R19	73.05	57.15	65.10	14.82	12.70	7.95	5.23	0.16	0.15
	1 1/2	1 1/2	1 1/2				1 1/2	1 1/2		R20	76.23	60.33	68.28	14.82	12.70	7.95	5.23	0.17	0.15
				1 1/2						R21	83.37	61.11	72.24	17.53	16.00	11.13	7.75	0.30	0.29
2										R22	90.50	74.60	82.55	14.82	12.70	7.95	5.23	0.20	0.19
	2			1 1/2			2	2		R23	93.68	71.42	82.55	17.53	16.00	11.13	7.75	0.34	0.33
		2	2					2		R24	106.38	84.12	95.25	17.53	16.00	11.13	7.75	0.39	0.38
2 1/2										R25	109.55	93.65	101.60	14.22	12.70	7.95	5.23	0.25	0.23
	2 1/2			2			2 1/2	2 1/2		R26	112.73	90.47	101.60	17.53	16.00	11.13	7.75	0.42	0.41
		2 1/2	2 1/2					2 1/2		R27	119.08	96.82	107.95	19.05	16.00	11.13	7.75	0.45	0.43
				2 1/2						R28	123.87	98.43	111.13	14.22	17.53	12.70	8.66	0.57	0.55
3										R29	122.25	107.95	114.30	17.53	12.70	7.95	5.23	0.28	0.26
	3									R30	128.61	106.35	117.48	17.53	16.00	11.13	7.75	0.48	0.47
		3	3				3	3		R31	134.96	112.70	123.85	17.53	16.00	11.13	7.75	0.51	0.50
				3						R32	139.70	114.30	127.00	19.05	17.53	12.70	8.66	0.65	0.63
3 1/2										R33	139.73	123.83	131.78	14.22	12.70	7.95	5.23	0.32	0.30
	3 1/2								3	R34	142.91	120.65	131.78	17.53	16.00	11.13	7.75	0.54	0.52
			3							R35	147.66	125.40	136.53	17.53	16.00	11.13	7.75	0.56	0.55
4										R36	157.18	141.28	149.23	14.22	12.70	7.95	5.23	0.37	0.34
	4	4					4	4		R37	160.36	138.10	149.23	17.53	16.00	11.13	7.75	0.62	0.60
				4					4	R38	173.06	141.30	157.18	22.35	20.57	15.88	10.49	1.16	1.14
			4							R39	173.06	150.80	161.93	17.53	16.00	11.13	7.75	0.67	0.65
5										R40	179.40	163.50	171.45	14.22	12.70	7.95	5.23	0.42	0.39
	5	5					5	5		R41	192.11	169.85	180.98	17.53	16.00	11.13	7.75	0.75	0.73
				5						R42	209.55	171.45	190.50	24.40	23.88	19.05	12.32	1.91	1.88
6									5	R43	201.63	185.73	193.68	14.22	12.70	7.95	5.23	0.48	0.44
										R44	204.81	182.55	193.68	17.53	16.00	11.13	7.75	0.80	0.78
	6	6					6	6	6	R45	222.28	200.02	211.15	17.53	16.00	11.13	7.75	0.87	0.85
			6							R46	223.85	198.45	211.15	19.05	17.53	12.70	8.66	1.08	1.05
				6						R47	247.65	209.55	228.60	25.40	23.88	19.05	12.32	2.29	2.26
8										R48	255.60	239.70	247.65	14.22	12.70	7.95	5.23	0.61	0.56
	8	8					8	8	8	R49	281.01	258.75	269.88	17.53	16.00	11.13	7.75	1.11	1.09
			8							R50	285.76	254.00	269.88	22.35	20.57	15.88	10.49	1.99	1.95
				8						R51	301.63	257.17	279.40	28.70	26.92	22.23	14.81	3.65	3.69
10										R52	312.75	296.85	304.80	14.22	12.70	7.95	5.23	0.75	0.69
	10	10					10	10	10	R53	334.98	312.72	323.85	17.53	16.00	11.13	7.75	1.34	1.30
			10							R54	339.73	307.97	323.85	22.35	20.57	15.88	10.49	2.39	2.35
				10						R55	371.48	314.32	342.90	36.58	35.05	28.58	19.81	7.35	7.68
12										R56	388.95	373.05	381.00	14.22	12.70	7.95	5.23	0.93	0.87
	12	12					12	12		R57	392.13	369.87	381.00	17.53	16.00	11.13	7.75	1.57	1.53
			12							R58	403.23	358.77	381.00	28.70	26.92	22.23	14.81	4.98	5.03
14										R59	404.83	388.93	396.88	14.22	12.70	7.95	5.23	0.98	0.90
				12						R60	438.15	374.65	406.40	39.62	38.10	31.75	22.33	10.47	11.09
	14						14	14		R61	430.23	407.97	419.10	17.53	16.00	11.13	7.75	1.73	1.69
		14								R62	434.98	403.22	419.10	22.35	20.57	15.88	10.49	3.09	3.04
			14							R63	444.50	393.70	419.10	33.27	31.75	25.40	17.30	7.33	7.54
16										R64	461.98	446.08	454.03	14.22	12.70	7.95	5.21	1.12	1.03
	16						16	16		R65	481.03	458.77	469.90	17.53	16.00	11.13	7.75	1.94	1.89
		16						16		R66	485.78	454.02	469.90	22.35	20.57	15.88	10.49	3.47	3.40
			16							R67	498.46	441.32	469.90	36.58	35.05	28.58	19.81	10.07	10.53
18										R68	525.48	509.58	517.53	14.22	12.70	7.95	5.23	1.28	1.18
	18						18	18		R69	544.53	522.27	533.40	17.53	16.00	11.13	7.75	2.20	2.15
		18						18		R70	552.45	514.35	533.40	25.40	23.88	19.05	12.32	5.35	5.27
			18							R71	561.98	504.82	533.40	36.58	35.05	28.58	19.81	11.43	11.95

RING JOINTS TG 30 - TG31

Tabla de clasificaciones en uso

DIAMETRO NOMINAL / PRESIÓN NOMINAL NOMINAL PIPE SIZE / NOMINAL PRESSURE										TOLERANCIAS: TOLLERANCES:		DIMENSIONES / DIMENSIONS						PESO / WEIGHT	
ASME-ANSI B16.5				ASME B16-47 A			API 6B			R	OD (mm)	ID (mm)	P (mm)	B (mm)	H (mm)	A (mm)	C (mm)	OVAL Kg	OLTO OCTAG. Kg
150	300-600	900	1500	150	300-600	900	2000	3000	10000*										
20										R72	566.75	550.85	558.80	14.22	12.70	7.95	5.23	1.38	1.27
	20				20		20			R73	596.90	571.50	584.20	19.05	17.53	12.70	8.66	2.99	2.92
		20				20		20		R74	603.25	565.15	584.20	25.40	23.88	19.05	12.32	5.85	5.77
			20							R75	615.95	552.45	584.20	39.62	38.10	31.75	22.33	15.05	15.94
24										R76	681.05	665.15	673.10	14.22	12.70	7.95	5.23	1.66	1.53
	24				24					R77	708.03	676.27	692.15	22.35	20.57	15.88	10.49	5.11	5.01
		24				24				R78	717.55	666.75	692.15	33.27	31.75	25.40	17.30	12.10	12.46
			24							R79	727.08	657.22	692.15	44.45	41.40	34.93	24.82	22.58	22.06
				22						R80	623.90	608.00	615.95		12.70	7.95	5.23		1.40
					22					R81	649.30	620.70	635.00		19.05	14.30	9.58		3.86
									1	R82	68.28	46.02	57.15		16.00	11.13	7.75		0.23
									1½	R84	74.63	52.37	63.50		16.00	11.13	7.75		0.25
									2	R85	92.08	66.68	79.38		17.53	12.70	8.66		0.40
									2½	R86	106.38	74.62	90.50		20.57	15.88	10.49		0.65
									3	R87	115.91	84.15	100.03		20.57	15.88	10.49		0.72
									4	R88	142.88	104.78	123.83		23.88	19.05	12.32		1.22
									3½	R89	133.35	95.25	114.30		23.88	19.05	12.32		1.13
									5	R90	177.81	133.35	155.58		26.92	22.23	14.81		2.05
									10	R91	292.10	228.60	260.35		38.10	31.75	22.33		7.10
										R92	239.73	217.47	228.60	17.53	16.00	11.13	7.75	0.94	0.92
										R93	768.35	730.25	749.30		23.88	19.05	12.32		7.40
					26					R94	819.15	781.05	800.10		23.88	19.05	12.32		7.90
					28					R95	876.30	838.20	857.25		23.88	19.05	12.32		8.47
					30					R96	936.63	892.17	914.40		26.92	22.23	14.81		12.08
					32					R97	987.43	942.97	965.20		26.92	22.23	14.81		12.75
					34					R98	1044.58	1000.12	1022.35		26.92	22.23	14.81		13.51
					36					R99	246.08	223.82	234.95		16.00	11.13	7.75		0.95
							8	8		R100	777.88	720.72	749.30		35.05	28.58	19.81		16.79
										R101	831.85	768.35	800.10		38.10	31.75	22.33		21.83
										R102	889.00	825.50	857.25		38.10	31.75	22.33		23.39
										R103	946.15	882.65	914.40		38.10	31.75	22.33		24.95
										R104	1000.13	930.27	966.20		41.40	36.93	24.82		31.49

NOTAS

- 1) Todas las dimensiones son en mm.
- 2) Bridas clase 10000 API 6B son obsoletas.
- 3) Previstas en la norma API Std 6a.
- 4)
- 5) No prevista ANSI & API.
- 6) La rugosidad de la superficie a 23° debe ser 63 RMS max.

NOTES

- 1) All dimensions are in mm.
- 2) Class 10000 flanges to API 6B are obsolete.
- 3) Ring Joints specified in API Std 6a.
- 4) R30 is suitable for lapped flanges only.
- 5) Oval Ring Joint not suitable for ANSI & API.
- 6) The 23° surface on both grooves and octagonal ring shall have a surface finish not rougher than 63 RMS.

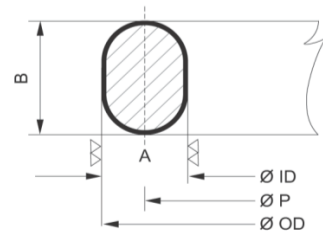
MATERIALES

El material de las juntas tiene que ser seleccionado para adaptarse al servicio que se espera de ella. Es recomendable que la junta sea más blanda que la brida.
Las juntas RJ están fabricadas con hierro blando y acero bajo en carbón y pueden tener una capa de zinc de un grosor entre 0,005 y 0,0127 mm.
Nos es posible facilitarles, si lo desea, el test de certificación (químico, mecánico, de corrosión, magnético y test de RX).

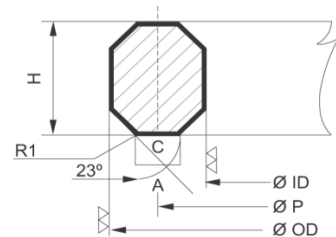
MATERIALS

Gasket material should be selected to suit the service conditions, it is recommended that the gasket is softer than the flanges.
On request the RING-JOINTS gaskets made in SOFT-IRON and LOW-CARBON STEEL can be zinc plated 0.005 to 0.0127 thickness.
It is possible to supply if requested, the certification test (chemical, mechanical, corrosion, magnetic and RX test).

SECCIÓN OVAL TG 30



SECCIÓN OCTOGONAL TG 31



RING JOINTS tipo TG 32

Tabla de clasificaciones en uso

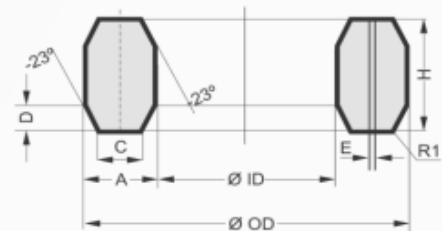
DIAMETRO NOMINAL / PRESIÓN NOMINAL NOMINAL PIPE SIZE / NOMINAL PRESSURE					TOLERANCIAS: TOLLERANCES _o	DIMENSIONES / DIMENSIONS							Ver nota 3 See note 3	PESO WEIGHT
CLASES / CLASSES					Rx	+0,50	+0,50	+0,20	+0,20	+0,15	+0,79	± 0,39	E (mm)	Kg
2000	3000	5000	(*)2900	5000		OD (mm)	ID (mm) (approx)	H (mm)	A (mm)	C (mm)	D (mm)	R1 (mm)		
1 1/2	1 1/2	1 1/2		2 1/16	Rx20	76.20	58.72	19.05	8.74	4.62	3.17	1.52		0.24
2					Rx23	93.27	69.45	25.40	11.91	6.45	4.24	1.59		0.52
	2				Rx24	105.97	82.15	25.40	11.91	6.45	4.24	1.59		0.60
		2			Rx25	109.55	92.07	19.05	8.74	4.62	3.17	1.59		0.50
2 1/16	2 1/2	2 1/2		3 1/16	Rx26	111.91	88.09	25.40	11.91	6.45	4.24	1.59		0.64
3	3				Rx27	118.26	94.44	25.40	11.91	6.45	4.24	1.59		0.68
		3			Rx31	134.54	110.72	25.40	11.91	6.45	4.24	1.59		0.78
4	4				Rx35	147.24	123.42	25.40	11.91	6.45	4.24	1.59		0.86
		4			Rx37	159.94	136.12	25.40	11.91	6.45	4.24	1.59		0.95
5	5				Rx39	172.64	148.82	25.40	11.91	6.45	4.24	1.59		1.03
		5			Rx41	191.69	167.87	25.40	11.91	6.45	4.24	1.59		1.15
6	6				Rx44	204.39	180.57	25.40	11.91	6.45	4.24	1.59		1.23
		6			Rx45	221.84	198.02	25.40	11.91	6.45	4.24	1.59		1.34
		8*			Rx46	222.25	195.27	28.58	13.49	6.68	4.77	1.59		1.66
8	8				Rx47	245.26	205.58	41.28	19.84	10.34	6.88	2.29		3.88
		8			Rx49	280.59	256.77	25.40	11.91	6.45	4.24	1.52		1.72
10	10				Rx50	283.36	250.04	31.75	16.66	8.51	5.28	1.59		2.43
		10			Rx53	334.57	310.75	25.40	11.91	6.45	4.24	1.59		2.06
12	12				Rx54	337.34	304.02	31.75	16.66	8.51	5.28	1.59		2.92
		14			Rx57	391.72	367.90	25.40	11.91	6.45	4.24	1.59		2.42
					Rx63	441.73	387.73	50.80	27.00	14.78	8.45	2.29		11.96
16	16				Rx65	480.62	456.80	25.40	11.91	6.45	4.24	1.52		3.00
					Rx66	457.99	424.67	31.75	16.66	8.51	5.28	1.59		4.25
18	18				Rx69	544.12	520.30	25.40	11.91	6.45	4.24	1.59		3.41
					Rx70	550.06	510.38	41.28	19.84	10.34	6.88	2.29		9.12
20	20				Rx73	596.11	569.13	31.75	13.49	6.68	5.28	1.52		5.27
					Rx74	600.86	561.18	41.28	19.84	10.34	6.88	2.29		10.01
			1		Rx82	67.87	44.05	25.40	11.91	6.45	4.24	1.52	1.6	0.36
			1 1/2		Rx84	74.22	50.40	25.40	11.91	6.45	4.24	1.59	1.6	0.40
			2		Rx85	90.09	63.11	25.40	13.49	6.68	4.24	1.59	1.6	0.40
			2 1/2		Rx86	103.58	73.40	28.58	15.09	8.51	4.77	1.59	2.4	0.81
			3		Rx87	113.11	82.93	28.58	15.09	8.51	4.77	1.59	2.4	0.90
			4		Rx88	139.29	104.33	31.75	17.48	10.34	5.28	1.59	3.2	1.46
			3 1/2		Rx89	129.77	93.25	31.75	18.26	10.34	5.28	1.59	3.2	3.09
			5		Rx90	174.63	134.95	44.45	19.84	12.17	7.41	2.29	3.2	7.75
			10		Rx91	286.94	226.58	45.24	30.18	19.81	7.54	2.29	3.2	1.50
8*	8*				Rx99	245.67	221.85	25.40	11.91	6.45	4.24	1.52		2.20
		1 1/16		1 1/16A	Rx201	51.46	39.98	11.30	5.74	3.20	1.44	0.51		0.10
		1 1/16		1 1/16A	Rx205	62.31	51.19	11.10	5.56	3.05	1.82	0.51		0.13
		2 1/16		2 1/16A	Rx210	97.64	78.58	19.05	9.53	5.41	3.17	0.76		0.35
		4 1/16		4 1/16A	Rx215	140.89	117.07	25.40	11.91	5.33	4.24	1.52		0.80

NOTAS

- 1) Todas las dimensiones son en mm.
- 2) La rugosidad de la superficie a 23° debe ser 32 RMS max.
- 3) El agujero "E" debe ser en el centro de la cota "C".
- (*) Válidas para conexiones de bridas abiertas.
- (*) 2900 bridas API 6B son obsoletas.

NOTES

- 1) All dimensions are in mm.
- 2) All 23° surfaces shall have a surfaces finish not rougher than 32 RMS.
- 3) One pressure passage hole "E" required per gasket shall be located at mid point of dimension "C".
- (*) Available for Cross flanges connection.
- (*) 2900 flanges to API 6B are obsolete.



RING JOINTS tipo TG 32

Tabla de clasificaciones en uso

DIAMETRO NOMINAL / PRESIÓN NOMINAL NOMINAL PIPE SIZE / NOMINAL PRESSURE						TOLERANCIAS TOLERANCES: 0	DIMENSIONES / DIMENSIONS					Ver nota 3 See note 3	PESO WEIGHT	
CLASES / CLASSES						Bx	+0,15	+0,15	+0,20	+0,20	-0,15	D (mm)	Kg	
2000	3000	5000	10000	15000	20000		OD (mm)	ID (mm) (approx)	H (mm)	A (mm)	C (mm)			T (mm)
			1 ^{1/16}	1 ^{1/16}		150	72.19	53.59	9.30	9.30	7.98	70.87	1.52	0.13
			1 ^{3/16}	1 ^{3/16}	1 ^{3/16}	151	76.40	57.14	9.63	9.63	8.26	75.03	1.52	0.15
			2 ^{1/16}	2 ^{1/16}	2 ^{1/16}	152	84.68	64.20	10.24	10.24	8.79	83.24	1.52	0.19
			2 ^{3/16}	2 ^{3/16}	2 ^{3/16}	153	100.94	78.18	11.38	11.38	9.78	99.31	1.52	0.29
			3 ^{1/16}	3 ^{1/16}	3 ^{1/16}	154	116.84	92.04	12.40	12.40	10.64	115.09	1.52	0.40
			4 ^{1/16}	4 ^{1/16}	4 ^{1/16}	155	147.96	119.52	14.22	14.22	12.22	145.95	1.52	0.55
			7 ^{1/16}	7 ^{1/16}	7 ^{1/16}	156	237.92	200.68	18.62	18.62	15.98	235.28	1.52	1.87
			9	9	9	157	294.46	252.50	20.98	20.98	18.01	291.49	3.05	2.97
			11	11	11	158	352.04	305.76	23.14	23.14	19.86	348.77	3.05	4.35
			13 ^{3/8}	13 ^{3/8}	13 ^{3/8}	159	426.72	375.32	25.70	25.70	22.07	423.09	3.05	6.53
		13 ^{3/8}				160	402.59	375.11	23.83	13.74	10.36	399.21	3.05	3.06
		16 ^{3/4}				161	491.41	458.99	28.07	16.21	12.24	487.45	3.05	5.35
		16 ^{3/4}	16 ^{3/4}	16 ^{3/4}		162	475.49	447.05	14.22	14.22	12.22	473.48	1.52	1.94
		18 ^{3/4}				163	556.16	521.42	30.10	17.37	13.11	551.89	3.05	6.90
			18 ^{3/4}	18 ^{3/4}		164	570.56	521.38	30.10	24.59	20.32	566.29	3.05	5.86
			21 ^{1/4}			165	624.71	587.73	32.03	18.49	13.97	620.19	3.05	8.76
			21 ^{1/4}			166	640.03	587.75	32.03	26.14	21.62	635.51	3.05	12.82
26 ^{3/4}						167	759.36	733.14	35.86	13.11	8.03	754.28	1.52	8.53
	26 ^{3/4}					168	765.25	733.15	35.86	16.05	10.97	760.17	1.52	10.54
			5 ^{1/8}			169	173.51	147.65	15.85	12.93	10.69	171.27	1.52	0.73
			6 ^{5/8}	6 ^{5/8}		170	218.03	189.59	14.22	14.22	12.22	216.03	1.52	1.03
			8 ^{9/16}	8 ^{9/16}		171	267.44	239.00	14.22	14.22	12.22	265.43	1.52	1.24
			11 ^{5/32}	11 ^{5/32}		172	333.07	304.63	14.22	14.22	12.22	331.06	1.52	1.56
							852.75	818.80	37.94					13.18

NOTAS

- 1) Todas las dimensiones son en mm.
- 2) La rugosidad de la superficie a 23° debe ser 32 RMS max.
- 3) El radio "R" debe ser 8+12% de la cota "H".
- 4) El agujero "R" debe estar en el centro de la cota "C".

NOTES

- 1) All dimensions are in mm.
- 2) All 23° surfaces shall have a surfaces finish not rougher than 32 RMS.
- 3) Radius "R" shall be 8 to 12 percent of the gaskets height "H".
- 4) One pressure passage hole required per gasket on centerline.

PARA PEDIDOS

Para pedidos de RJ (RJ - RX - BX) se deben dar los siguientes datos:

- A) El número de identificación, el diámetro nominal y la presión.
- B) Indicar el perfil TG30, TG31, TG32 o TG33.
- C) El tipo de material solicitado.

FOR ORDERING

To order the standard Ring Joint gaskets RJ - RX - BX please submit the following data:

- A) Relevant Ring number or nominal pipe with class rating.
- B) Specify if TG30, TG31, TG32 o TG33.
- C) Material required.

