

RING JOINT GASKETS

PROPERTIES AND CHARACTERISTICS

Ring joint gaskets (RTJs) are designed for high pressure applications. They are available in a variety of forms to suit different flange formats. RTJs can be used for very high and/or fluctuating pressures (up to 1500 bar), depending on the profile selected. Material selection determines use for high temperatures (up to 1000 °C) and in aggressive media. To ensure proper sealing the surface of contact between the gaskets and flange have to be carefully processed. The small sealing area and high contact pressure results in excellent sealability.



General characteristic:

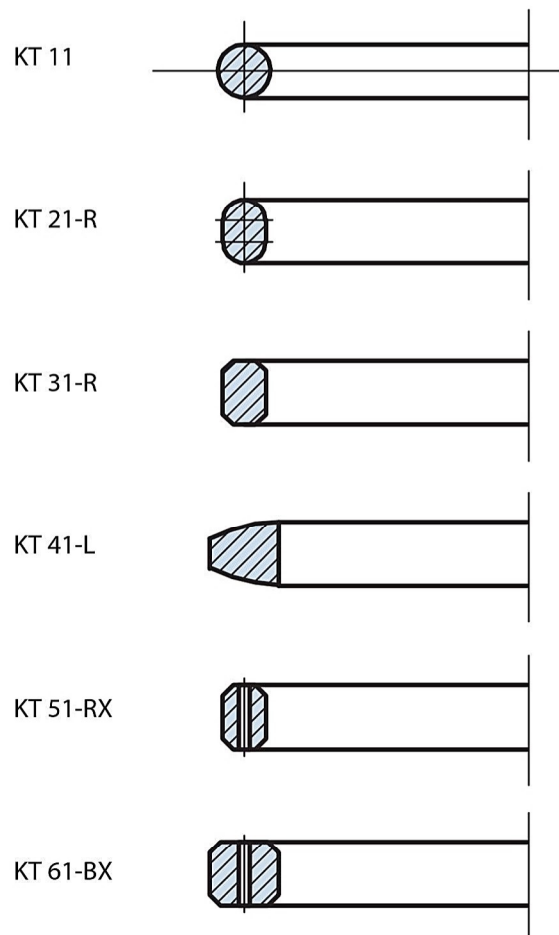
- RTJs are metallic sealing rings suitable for high pressure and high temperature applications.
- RTJs are supplied in different profiles.
- RTJ are always used in combination with special flanges which ensure good and reliable sealing with the correct choice of material and profile.

APPLICATION

- Refineries
- Power plants
- Petrochemical industry
- Pipelines
- Valves
- Pressure vessels

Gasket profiles

The ring joint gaskets are produced in different profiles and dimensions.



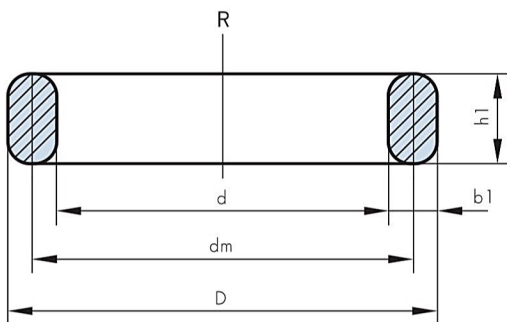
MATERIALS

Standard materials such as soft iron, Low CS and the range of SS are available as well as other materials which are available on request.

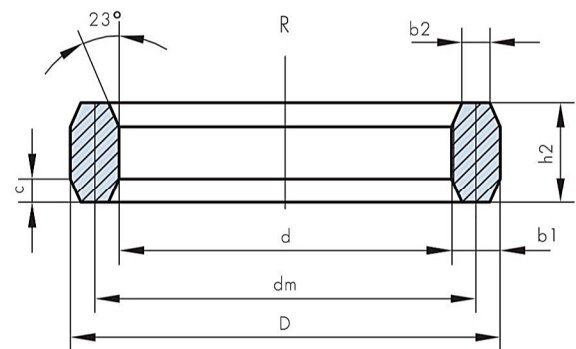
STANDARD MATERIALS RECOMMENDED BY THE ASME B16.20				
ASME/ASTM	DIN EN 10 027-2 Material No.	Maximum HB	Maximum HV	Material Code
Soft iron	1.1003	90	56	D
Low CS	1.0038	120	68	S
4-6 Cr ½ Mo	1.7362	130	72	F5
AISI 410	1.4000	170	86	S 410
AISI 304	1.4301	160	83	S 304
AISI 316	1.4401	160	83	S 316
AISI 321	1.4541	160	83	S 321
AISI 347	1.4550	160	83	S 347

DIMENSIONS

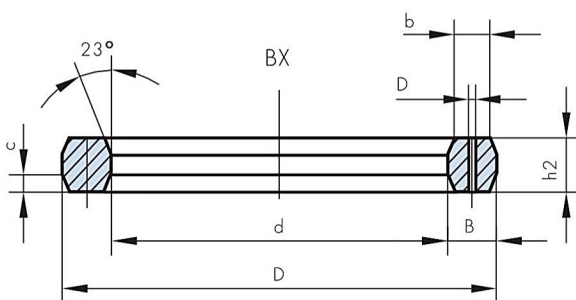
STANDARDS FOR RING JOINT GASKETS USED WITH FLANGES		
Ring Joint Gaskets Style	Ring Joint Gaskets Standard	Flange Standard
R	ASME B 16.20 API 6A	ASME B 16.5 ASME B 16.47 series A
RX	ASME B 16.20 API 6A	API 6B
BX	API 6A	API 6BX



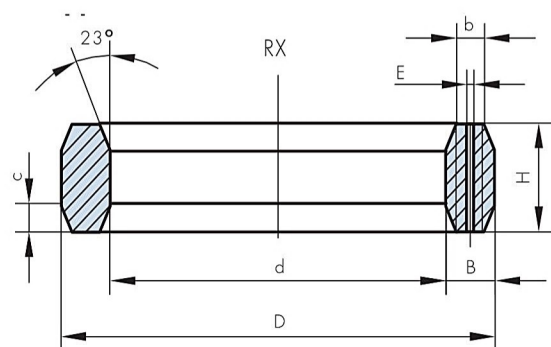
Style R
Oval section



Style R
Octagonal section



Style BX



Style RX

NOMINAL PIPE SIZE/NOMINAL PRESSURE										DIMENSIONS								WEIGHT	
ASME-ANSI B16.5				ASME B16.47 A			API 6B			Tolerances	± 0,38	± 0,38	± 0,17	± 0,39	± 0,39	± 0,20	± 0,20	OVAL	OCTAG.
150	300-600	900	1500	150	300-600	900	2000	3000	10000	R	D (mm)	d (mm)	dm (mm)	h ₁ (mm)	h ₂ (mm)	b ₁ (mm)	b ₂ (mm)	kg	kg
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	584,00	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
									1 ½	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
									2 ½	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
									3 ½	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
					26					R93	768,35	730,25	749,30		23,88	19,05	12,32		7,40
					28					R94	819,15	781,05	800,10		23,88	19,05	12,32		7,90
					30					R95	876,30	838,20	857,25		23,88	19,05	12,32		8,47
					32					R96	936,63	892,17	914,40		26,92	22,23	14,81		12,08
					34					R97	987,43	942,97	965,20		26,92	22,23	14,81		12,75
					36					R98	1044,58	1000,12	1022,35		26,92	22,23	14,81		13,51
							8	8		R99	246,08	223,82	234,95		16,00	11,13	7,75		0,95
					26					R100	777,88	720,72	749,30		35,05	28,58	19,81		16,79
					28					R101	831,85	768,35	800,10		38,10	31,75	22,33		21,83
					30					R102	889,00	825,50	857,25		38,10	31,75	22,33		23,39
					32					R103	946,15	882,65	914,40		38,10	31,75	22,33		24,95
					34					R104	1000,13	930,27	966,20		41,40	36,93	24,82		31,49
					36					R105	1057,28	987,42	1022,35		41,40	34,93	24,82		33,35

GASKET ORDERING EXAMPLE

RING JOINT GASKET API 6a
R-34 OVAL, material AISI 316