

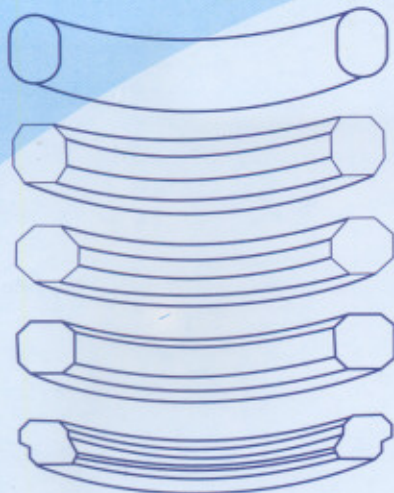
API & ASME

RING JOINT GASKETS



**EQUATORIAL
ENTERPRISES LLC**

P.O. Box 541250, Houston Texas, 77254-1250 Ph. : 281-590-8000,
Fax : 281-590-8001 e-mail : equatorial@sbcglobal.net



Types

OVAL and OCTAGONAL : Designed for API Ring Joint Gaskets, these match standard and special grooves. **EQUATORIAL** produces a wide selection of custom designed and standard gaskets in these styles.

BX and RX : Designed for extreme pressure service to 15,000 psi required in today's oilfield drilling and production, these gaskets are pressure-actuated (the higher the contained pressure, the tighter the seal.) The BX can be used only in API 6 BX flanges. The RX is interchangeable with standard octagonal rings in API 6B flanges.

Combination : Designed for rings joints in which the mating flanges have different ring groove diameters.

Materials :

Standard Specifications for **EQUATORIAL** Gasket Metals
(in accordance with ASA B16:20 and API 6A)

Metal	Maximum Hardness		Max. Service Temperature		Identification
	Brinell 3000 Kg.	Rockwell B'	API BA	ASA B16:20	
Low-Carbon Steel	120	68	-250°F	1000°F	S
Type 304 Stainless Steel	160	83	-250°F	Depends Upon	S
Type 316 Stainless Steel	160	83	-250°F	Service Condition	S 316

Rockwell B measured with 100 KG and 1/16" diameter ball.

To be Zinc / Cadmium plated 0.0002" to 0.0005".
Not standard for BX and RX.



Where you face severe service conditions from high pressure, high temperature, extremely corrosive fluids or other causes, you know you need the most reliable metal seal you can get. Why not the finest - API ring joint gaskets from Equatorial ?

By specifying **EQUATORIAL** you are ordering direct from the premier full-line manufacturer of API ring gaskets. Standard shapes in basic materials are stocked, to take care of your delivery and service requirements. **EQUATORIAL's** reputation is built on unexcelled technology, craftsmanship and reliability, plus prompt service.

Precision machining gives you a product with the high performance standards you need for your extremely demanding applications. To bring you this quality, skilled and experienced craftsmen, operating specialized manufacturing equipment, hold to meticulous exactness and close tolerances.

When you need ring gaskets -why not the finest?

Applications :

- ❑ High pressure conditions, up to 15,000 psi.
- ❑ High temperature conditions.
- ❑ Conditions involving extremely corrosive fluids.
- ❑ Unusual service conditions that decide the extra security of metal seals.

Typical Uses :

- ❑ Wellheads
- ❑ Pipeline valves.
- ❑ Gas and chemical plants.
- ❑ Ships and submarines.

Features :

Close Tolerances : Machined solid metal gaskets with close tolerances rigidly maintained.

Controlled Hardness : Careful annealing keeps the hardness of the gasket below the maximum allowable, to assure proper flow and sealing without damage to the flange surfaces.

Smooth Surfaces : Meticulously smooth surfaces eliminate unacceptable ridges and tool marks that cause an imperfect seal.

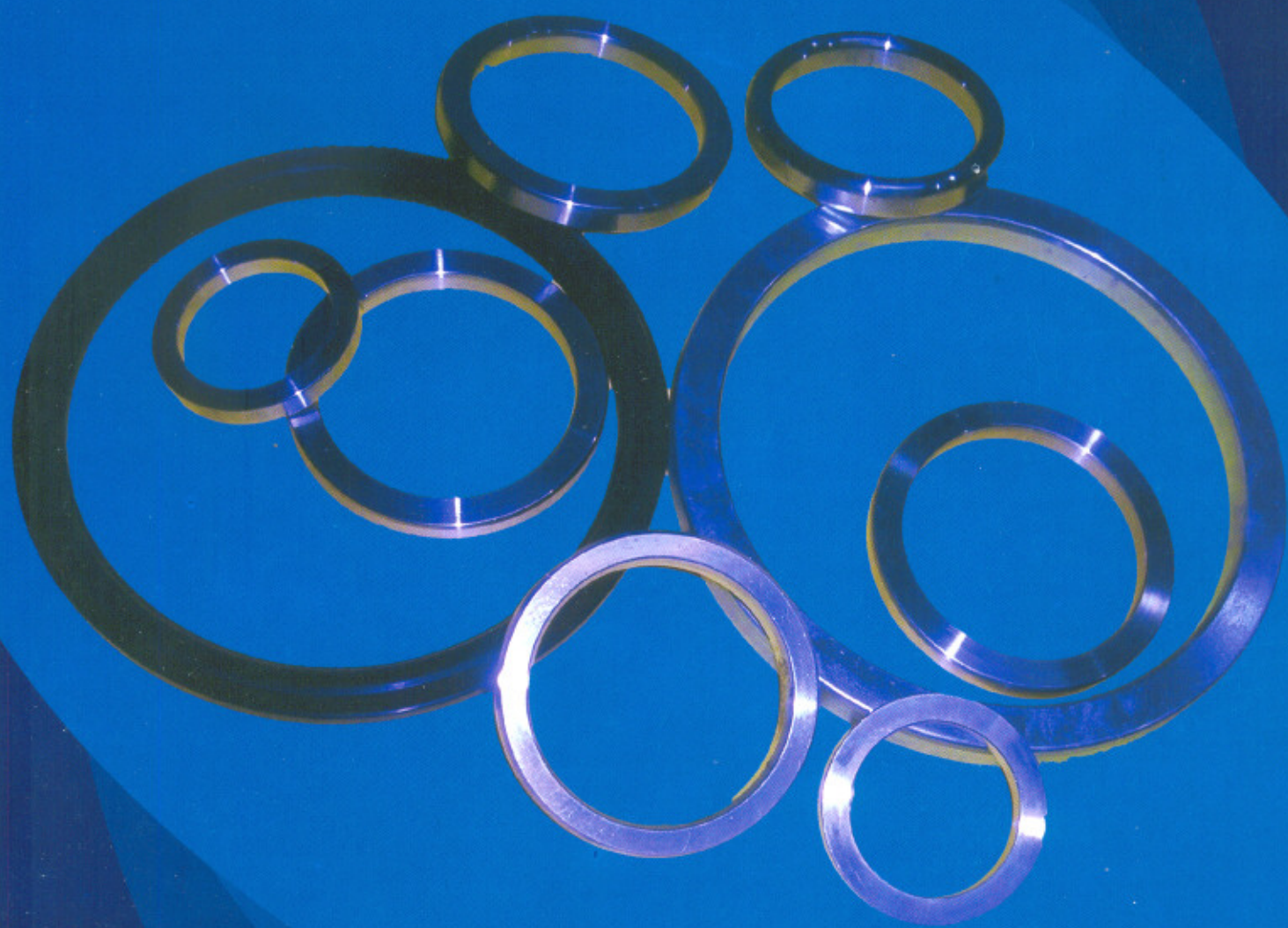
Specifications :

EQUATORIAL is one of the few companies approved by the American Petroleum Institute to affix the API monogram to its gaskets for the oil industry.

EQUATORIAL gaskets fully meet ASA Standard B 16:20 and API Standard 6 A (each where applicable).



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R. GASKETS

OVAL AND OCTAGONAL

A.S.A. & P.P.I. Ring Number	Gasket Dimensions inches						Size of Flange					Gasket Weight lbs			
	Center to Center	Inside Diameter	Outside Diameter	Width of	Height of		General Use				Oral Rings			Octagon Rings	
					Oval	Octagon Ring	100 lbs	200 to 800 lbs	900 lbs	1500 lbs		2500 lbs	720 lbs 2000-3000 lbs		5000 lbs
R11	1 1/2	1 1/4	1 1/2	1/4	3/8	1/2							111	104	
R12	1 3/4	1 1/2	1 3/4	3/8	1/2	3/4							216	200	
R13	1 3/4	1 1/2	2	3/8	1/2	3/4							234	218	
R14	1 3/4	1 1/2	2 1/8	3/8	1/2	3/4							242	224	
R15	1 3/4	1 1/2	2 1/4	3/8	1/2	3/4	1						280	240	
R16	2	1 1/2	2 1/2	3/8	1/2	3/4	1	1	1	3/4	1	1	278	268	
R17	2 1/4	1 1/2	2 3/4	3/8	1/2	3/4	1 1/4						311	288	
R18	2 1/4	1 1/2	2 3/4	3/8	1/2	3/4	1 1/4	1 1/4	1 1/4	1	1 1/4	1 1/4	328	304	
R19	2 1/4	1 1/2	2 3/4	3/8	1/2	3/4	1 1/4						354	328	
R20	2 1/4	1 1/2	3	3/8	1/2	3/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	372	344	
R21	2 1/4	1 1/2	3 1/8	3/8	1/2	3/4				1 1/4			660	643	
R22	3 1/4	2 1/4	3 1/8	3/8	1/2	3/4	2						450	415	
R23	3 1/4	2 1/4	3 1/8	3/8	1/2	3/4	2			1 1/4	2		755	794	
R24	3 1/4	2 1/4	4 1/8	3/8	1/2	3/4	2	2			2		870	846	
R25	4	3 1/4	4 1/8	3/8	1/2	3/4	2 1/4						553	510	
R26	4	3 1/4	4 1/8	3/8	1/2	3/4	2 1/4			2	2 1/4		930	904	
R27	4 1/4	3 1/4	4 1/8	3/8	1/2	3/4	2 1/4	2 1/4			2 1/4		1.05	960	
R28	4 1/4	3 1/4	4 1/8	3/8	1/2	3/4				2 1/4			1.255	1.23	
R29	4 1/4	3 1/4	4 1/8	3/8	1/2	3/4	3						622	575	
R30	4 1/4	3 1/4	5 1/8	3/8	1/2	3/4	3						1.075	1.047	
R31	4 1/4	3 1/4	5 1/8	3/8	1/2	3/4	3	3			3		1.13	1.1	
R32	5	4 1/4	5 1/8	3/8	1/2	3/4					3		1.436	1.405	
R33	5 1/4	4 1/4	5 1/8	3/8	1/2	3/4	3 1/4						718	884	
R34	5 1/4	4 1/4	5 1/8	3/8	1/2	3/4	3 1/4	3		3 1/4			1.2	1.17	
R35	5 1/4	4 1/4	5 1/8	3/8	1/2	3/4					3		1.26	1.21	
R36	5 1/4	4 1/4	6 1/8	3/8	1/2	3/4	4						813	735	
R37	5 1/4	4 1/4	6 1/8	3/8	1/2	3/4	4			4	3 1/4		1.38	1.33	
R38	6 1/4	5 1/4	6 1/8	3/8	1/2	3/4	4						2.58	2.52	
R39	6 1/4	5 1/4	6 1/8	3/8	1/2	3/4		4		4			1.48	1.44	
R40	5 1/4	6 1/4	6 1/8	3/8	1/2	3/4	5						935	885	
R41	7 1/4	6 1/4	7 1/8	3/8	1/2	3/4	5	5			5		1.66	1.61	
R42	7 1/4	6 1/4	8 1/8	3/8	1/2	3/4				5			4.21	4.16	
R43	7 1/4	6 1/4	7 3/8	3/8	1/2	3/4	6						1.055	975	
R44	7 1/4	6 1/4	8 3/8	3/8	1/2	3/4				5		5	1.77	1.73	
R45	8 1/4	7 1/4	8 3/8	3/8	1/2	3/4	6	6			6		1.03	1.88	
R46	8 1/4	7 1/4	8 3/8	3/8	1/2	3/4				6		6	2.38	2.33	
R47	9	8 1/4	9 3/8	3/8	1/2	3/4				6			5.06	4.99	
R48	9 1/4	8 1/4	10 3/8	3/8	1/2	3/4	8						1.35	1.24	
R49	10 1/4	10 1/4	11 3/8	3/8	1/2	3/4	8	8			8		2.47	2.4	
R50	10 1/4	10 1/4	11 3/8	3/8	1/2	3/4				8		8	4.4	4.32	
R51	11	10 1/4	11 3/8	3/8	1/2	3/4				8			8.06	8.17	
R52	12	11 1/4	12 3/8	3/8	1/2	3/4	10						1.88	1.53	
R53	12 1/4	12 1/4	13 3/8	3/8	1/2	3/4	10	10			10	3	2.88		
R54	12 1/4	12 1/4	13 3/8	3/8	1/2	3/4				10		10	6.29	5.18	
R55	13 1/4	12 1/4	14 3/8	3/8	1/2	3/4				10			16.29	17.04	
R56	15	14 1/4	15 3/8	3/8	1/2	3/4	12						2.07	1.92	
R57	15	14 1/4	15 3/8	3/8	1/2	3/4	12	12			12		3.49	3.38	

A.S.A. & P.P.I. Ring Number	Gasket Dimensions inches						Size of Flange					Gasket Weight lbs			
	Center to Center	Inside Diameter	Outside Diameter	Width of	Height of		General Use				Oral Rings			Octagon Rings	
					Oval	Octagon Ring	100 lbs	200 to 800 lbs	900 lbs	1500 lbs		2500 lbs	720 lbs 2000-3000 lbs		5000 lbs
R58	15	14 1/4	16 1/4	3/8	1/2	3/4							11	11.13	
R59	15 1/4	16 1/4	15 3/4	3/8	1/2	3/4	14						2.16	2	
R60	16	14 1/4	17 1/4	1/2	1 1/4	1 1/2					12		23.1	23.5	
R61	16 1/4	16 1/4	16 3/4	3/8	1/2	3/4	14				14		3.33	3.73	
R62	16 1/4	15 1/4	17 1/4	3/8	1/2	3/4	14						8.84	6.71	
R63	16 1/4	15 1/4	17 1/4	1	1 1/4	1 1/2					14		16.2	16.67	
R64	17 1/4	17 1/4	18 3/4	3/8	1/2	3/4	16						2.47	2.29	
R65	18 1/4	18 1/4	18 3/4	3/8	1/2	3/4	16				16		4.3	4.18	
R66	18 1/4	17 1/4	18 3/4	3/8	1/2	3/4	16						7.67	7.53	
R67	18 1/4	17 1/4	19 3/4	1 1/4	1 1/4	1 1/2					16		22.3	23.4	
R68	20 1/4	20 1/4	20 3/4	3/8	1/2	3/4	18						2.82	2.6	
R69	21	20 1/4	21 3/4	3/8	1/2	3/4	18				18		4.87	4.74	
R70	21	20 1/4	21 3/4	3/8	1/2	3/4	18				18		11.8	11.64	
R71	21	19 1/4	22 1/4	1 1/4	1 1/4	1 1/2					18		25.2	26.5	
R72	22	21 1/4	21 3/4	3/8	1/2	3/4							3.04	2.81	
R73	23	22 1/4	23 3/4	3/8	1/2	3/4	1 1/4						6.6	6.47	
R74	23	22 1/4	23 3/4	3/8	1/2	3/4							12.95	12.75	
R75	23	21 1/4	24 1/4	1 1/4	1 1/4	1 1/2							33.3	35.3	
R76	26 1/4	26 1/4	27 3/4	3/8	1/2	3/4							3.66	3.38	
R77	27 1/4	26 1/4	27 3/4	3/8	1/2	3/4							11.3	11.1	
R78	27 1/4	26 1/4	28 3/4	1	1 1/4	1 1/2							27.1	27.58	
R79	27 1/4	25 1/4	28 3/4	1 1/4	1 1/4	1 1/2							48.7	49.75	
R80	24 1/4	23 1/4	24 3/4	3/8	1/2	3/4								3.11	
R81	25	24 1/4	25 3/4	3/8	1/2	3/4								8.55	
R82	2 1/4	1 1/4	2 3/4	3/8	1/2	3/4								508	
R83															
R84	2 1/4	2 1/4	2 3/4	3/8	1/2	3/4								564	
R85	3 1/4	2 1/4	3 3/4	3/8	1/2	3/4								878	
R86	3 1/4	2 1/4	3 3/4	3/8	1/2	3/4								1.447	
R87	3 1/4	3 1/4	4 3/4	3/8	1/2	3/4								1.587	
R88	4 1/4	3 1/4	5 3/4	3/8	1/2	3/4								2.735	
R89	4 1/4	3 1/4	5 3/4	3/8	1/2	3/4								2.528	
R90	8 1/4	3 1/4	7 3/4	3/8	1/2	3/4								4.55	
R91	10 1/4	9	11 3/4	3/8	1/2	3/4								15.05	
R92	9	8 1/4	8 3/4	3/8	1/2	3/4							2.07	2.02	
R93	29 1/4	28 1/4	30 3/4	3/8	1/2	3/4								16.33	
R94	31 1/4	30 1/4	32 3/4	3/8	1/2	3/4								17.44	
R95	33 1/4	33	34 3/4	3/8	1/2	3/4								18.69	
R96	38	35 1/4	36 3/4	3/8	1/2	3/4								28.65	
R97	38	38 1/4	38 3/4	3/8	1/2	3/4								28.13	
R98	40 1/4	38 1/4	41 3/4	3/8	1/2	3/4								29.79	
R99	8 1/4	8 1/4	9 3/4	3/8	1/2	3/4								2.08	
R100	R100 through R 105, Information on Request.*														

- R30 for Lapped Joint only
- * Pipeline flanges to MSS SP-44
- Octagonal is standard in these sizes
- + 10,000 lb, Oilfield use



RX Gaskets for API 6B Flanges

API Ring Number	API Groove Number	Size of Flange, Inches				Gasket Weight lbs
		720-960 2000lbs	2900 lbs	3000 lbs	5000 lbs	
RX 20	R-20	1½		1½		0.527
RX 23	R-23	2		2		1.15
RX 24	R-24			2		1.39
RX 26	R-26	2½				1.42
RX 27	R-27			2½	2½	1.15
RX 31	R-31	3		3		1.73
Rx 35	R-35				3	1.91
Rx 37	R-37	4		4		2.09
Rx 39	R-39				4	2.27
Rx 41	R-41	5		5		2.54
Rx 44	R-44				5	2.72
Rx 45	R-45	8		6		2.96
Rx 46	R-46				6	3.66
Rx 47	R-47				8*	8.56
Rx 49	R-49	8		8		3.79
Rx 50	R-50				8	5.38
Rx 53	R-53	10		10		4.56
Rx 54	R-54				10	6.45
Rx 57	R-57	12		12		5.36
Rx 63	R-63				14	26.40
Rx 65	R-65	16				6.63
Rx 66	R-66			16		9.39
Rx 69	R-69	18				7.52
Rx 70	R-70			18		20.14
Rx 73	R-73	20				11.63
Rx 74	R-74			20		22.10
Rx 82	R-82		1			0.790
Rx 84	R-84		1½			0.880
Rx 85	R-85		2			0.880
Rx 86	R-86		2½			1.79
Rx 87	R-87		3			1.98
Rx 88	R-88		4			3.22
Rx 89	R-89		3½			2.98
Rx 90	R-90		5			6.82
Rx 91	R-91		10			17.10
Rx 99	R-99	8*		8*		3.31

Crossover flange connection

RX Gaskets for API 6 BX Flanges

API Ring Number	5,000psl	10,000psl	15,000psl	Gasket Weight lbs
Bx-150		1½	1	0.295
Bx-151		1½	1	0.337
Bx-152		2½	2	0.425
Bx-153		2½	2	0.632
Bx-154		3½	3	0.875
Bx-155		4½	4	1.22
Bx-156		7½	7	4.14
Bx-157		9		6.55
Bx-158		13½		14.41
Bx-159	13½			6.75
Bx-160	16½			
Bx-161	16½			
Bx-163	16½			
Bx-164		18½		
Bx-165	21½			
Bx-166		21½		
Bx-167		26 ½ 2.000pst		
Bx-168		26 ½ 3.000pst		