



**Metal Industries**  
ISO 9001:2008 CERTIFIED CO.

**Metal Industries**  
177/181, J.T. Bldg., Dr.M.G. Mahim-  
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**DIMENSION TABLE FOR R (Oval & Octagonal) TYPE RING JOINT GASKETS**

Ring No.	PRESSURE CLASS RATINGS						Pitch Diameter of Ring	Width of Ring	Height of Ring		Approx. Distance Between Flanges	Gasket Weights, lbs.		
	ANSI, BS & MSS			API (psi)					Oval	Octagonal		Oval	Octagonal	
	150	300/600	900	1500	2500	2000/3000	5000	P	A	B		H	Rings	Rings
	Nominal Pipe Size						P		A		B		H	
R11	-	½	-	-	-	-	-	1.344	0.250	0.44	0.38	-	.111	.104
R12	-	-	½	½	-	-	-	1.563	0.313	0.56	0.50	-	.216	.200
R13	-	¾	-	-	½	-	-	1.688	0.313	0.56	0.50	-	.234	.216
R14	-	-	¾	¾	-	-	-	1.750	0.313	0.56	0.50	-	.242	.224
R15	1	-	-	-	-	-	-	1.875	0.313	0.56	0.50	-	.260	.240
R16	-	1	1	1	¾	-	-	2.000	0.313	0.56	0.50	-	.278	.256
R17	1¼	-	-	-	-	-	-	2.250	0.313	0.56	0.50	-	.311	.288
R18	-	1¼	1¼	1¼	1	-	-	2.375	0.313	0.56	0.50	-	.328	.304
R19	1 1/2	-	-	-	-	-	-	2.563	0.313	0.56	0.50	-	.354	.328
R20*	-	1 1/2	1 1/2	1 1/2	-	-	-	2.688	0.313	0.56	0.50	0.16	.372	.344
R21	-	-	-	-	1¼	-	-	2.844	0.438	0.69	0.63	-	.660	.643
R22	2	-	-	-	-	-	-	3.250	0.313	0.56	0.50	-	.450	.415
R23*	-	2	-	-	1½	2 1/16**	-	3.250	0.438	0.69	0.63	0.19	.755	.734
R24*	-	-	2	2	-	2 1/16	2	3.750	0.438	0.69	0.63	0.19	.870	.846
R25	2½	-	-	-	-	-	-	4.000	0.313	0.56	0.50	-	.553	.510
R26*	-	2½	-	-	-	2 9/16	-	4.000	0.438	0.69	0.63	0.19	.930	.904
R27*	-	-	2½	2½	-	( 2 9/16)	2 9/16	4.250	0.438	0.69	0.63	0.19	1.050	.960
R28	-	-	-	-	2½	-	-	4.375	0.500	0.75	0.69	-	1.255	1.230
R29	3	-	-	-	-	-	-	4.500	0.313	0.56	0.50	-	.622	.575
R30	-	3	-	-	-	-	-	4.625	0.438	0.69	0.63	-	1.075	1.047
R31*	-	3	3	-	-	3 1/8	-	4.875	0.438	0.69	0.63	0.19	1.130	1.100
R32	-	-	-	-	3	-	-	5.000	0.500	0.75	0.69	-	1.435	1.405
R33	3½	-	-	-	-	-	-	5.188	0.313	0.56	0.50	-	.718	.664
R34	-	3½	-	-	-	-	-	5.188	0.438	0.69	0.63	-	1.200	1.170
R35*	-	-	-	3	-	-	3 1/8	5.375	0.438	0.69	0.63	0.19	1.250	1.210
R36	4	-	-	-	-	-	-	5.875	0.313	0.56	0.50	-	.813	.735
R37*	-	4	4	-	-	4 1/16	-	5.875	0.438	0.69	0.63	0.19	1.360	1.330
R38	-	-	-	-	4	-	-	6.188	0.625	0.88	0.81	-	2.56	2.52
R39*	-	-	-	4	-	-	4 1/16	6.375	0.438	0.69	0.63	0.19	1.480	1.440
R40	5	-	-	-	-	-	-	6.750	0.313	0.56	0.50	-	.935	.865
R41*	-	5	5	-	-	-	-	7.125	0.438	0.69	0.63	0.19	1.66	1.61
R42	-	-	-	-	5	-	-	7.500	0.750	1.00	0.94	-	4.21	4.16
R43	-	-	-	-	-	-	-	7.625	0.313	0.56	0.50	-	1.055	.975

Dimensions in Inches

(\* ) Denotes ring number specified in API 6A.

Nominal Pipe Sizes in brackets apply to class rating 3000 only.

Nominal Pipe Sizes marked ( \*\* ) apply to class rating 2000 only.

Ring no. R30 is suitable for lapped flanges only.



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Ring No.	PRESSURE CLASS RATINGS						Pitch	Height of Ring		Approx. Distance Between	Gasket Weights, lbs.			
	ANSI, BS & MSS					API (psi)		Diameter	Width		Flanges	Oval	Octagonal	
	150	300/600	900	1500	2500	2000/3000	5000	of Ring	of Ring	Oval		Octagonal	Oval	Octagonal
	Nominal Pipe Size						P	A			Rings	Rings		
R44*	-	-	-	5	-	-	-	7.625	0.438	0.69	0.63	0.19	1.77	1.73
R45*	-	6	6	-	-	7 1/16	-	8.313	0.438	0.69	0.63	0.19	1.93	1.88
R46*	-	-	-	6	-	-	7 1/16	8.313	0.500	0.75	0.69	0.13	2.39	2.33
R47*	-	-	-	-	6	-	-	9.000	0.750	1.00	0.94	0.16	5.06	4.99
R48	8	-	-	-	-	-	-	9.750	0.313	0.56	0.50	-	1.350	1.240
R49*	-	8	8	-	-	9	-	10.625	0.438	0.69	0.63	0.19	2.47	2.40
R50*	-	-	-	8	-	-	9	10.625	0.625	0.88	0.81	0.16	4.40	4.32
R51	-	-	-	-	8	-	-	11.000	0.875	1.13	1.06	-	8.05	8.17
R52	10	-	-	-	-	-	-	12.000	0.313	0.56	0.50	-	1.66	1.53
R53*	-	10	10	-	-	11	-	12.750	0.438	0.69	0.63	0.19	3.00	2.88
R54	-	-	-	10	-	-	11	12.750	0.625	0.88	0.81	0.16	5.29	5.18
R55	-	-	-	-	10	-	-	13.500	1.125	1.44	1.38	-	16.23	17.04
R56	12	-	-	-	-	-	-	15.000	0.313	0.56	0.69	-	2.07	1.92
R57*	-	12	12	-	-	13 5/8	-	15.000	0.438	0.69	0.63	0.19	3.48	3.38
R58	-	-	-	12	-	-	-	15.000	0.875	1.13	1.06	-	11.00	11.13
R59	14	-	-	-	-	-	-	15.265	0.313	0.56	0.50	-	2.16	2.00
R60	-	-	-	-	12	-	-	16.000	1.250	1.56	1.50	-	23.10	23.50
R61	-	14	-	-	-	-	-	16.500	0.438	0.69	0.63	-	3.83	3.73
R62	-	-	14	-	-	-	-	16.500	0.625	0.88	0.81	-	6.84	6.71
R63*	-	-	-	14	-	-	-	16.500	1.000	1.31	1.25	0.22	16.20	16.67
R64	16	-	-	-	-	-	-	17.875	0.313	0.56	0.50	-	2.47	2.29
R65*	-	16	-	-	-	16 3/4**	-	18.500	0.438	0.69	0.63	0.19	4.30	4.18
R66*	-	-	16	-	-	( 16 )	-	18.500	0.625	0.88	0.81	0.16	7.67	7.53
R67	-	-	-	16	-	-	-	18.500	1.125	1.44	1.38	-	22.30	23.40
R68	18	-	-	-	-	-	-	20.375	0.313	0.56	0.50	-	2.82	2.60
R69*	-	18	-	-	-	-	-	21.000	0.438	0.69	0.63	0.19	4.87	4.74
R70*	-	-	18	-	-	( 18 )	-	21.000	0.750	1.00	0.94	0.19	11.80	11.64
R71	-	-	-	18	-	-	-	21.000	1.125	1.44	1.38	-	25.20	26.50
R72	20	-	-	-	-	-	-	22.000	0.313	0.56	0.50	-	3.04	2.81
R73*	-	20	-	-	-	21 1/4**	-	23.000	0.500	0.75	0.69	0.13	6.60	6.47
R74*	-	-	20	-	-	( 20 3/4 )	-	23.000	0.750	1.00	0.94	0.19	12.95	12.75
R75	-	-	-	20	-	-	-	23.000	1.250	1.56	1.50	-	33.30	35.30
R76	24	-	-	-	-	-	-	26.500	0.313	0.56	0.50	-	3.66	3.38
R77	-	24	-	-	-	-	-	27.250	0.625	0.88	0.81	-	11.30	11.10
R78	-	-	24	-	-	-	-	27.250	1.000	1.31	1.25	-	27.10	27.58

Dimensions in Inches

(\* ) Denotes ring number specified in API 6A.

Nominal Pipe Sizes in brackets apply to class rating 3000 only.

Nominal Pipe Sizes marked ( \*\* ) apply to class rating 2000 only.

Ring no. R30 is suitable for lapped flanges only.



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	ANSI, BS & MSS					API (psi)		Diameter	Width	Oval	Octagonal	Flanges		Oval	Octagonal
	150	300/600	900	1500	2500	2000/3000	5000	of Ring	of Ring				B	H	Rings
	Nominal Pipe Size							P	A						
R79	-	-	-	24	-	-	-	27.250	1.375	1.75	1.63	0.19	48.7	49.75	
R80	22	-	-	-	-	-	-	24.250	0.313	-	0.50	-	-	3.11	
R81	-	22	-	-	-	-	-	25.000	0.563	-	0.75	-	-	8.55	
R82*	-	-	-	-	-	-	-	2.250	0.438	-	0.63	0.19	-	.508	
R84*	-	-	-	-	-	-	-	2.500	0.438	-	0.63	0.19	-	.564	
R85*	-	-	-	-	-	-	-	3.125	0.500	-	0.69	0.13	-	.978	
R86*	-	-	-	-	-	-	-	3.563	0.625	-	0.81	0.16	-	1.447	
R87*	-	-	-	-	-	-	-	3.938	0.625	-	0.81	0.16	-	1.597	
R88*	-	-	-	-	-	-	-	4.875	0.750	-	0.94	0.19	-	2.735	
R89*	-	-	-	-	-	-	-	4.500	0.750	-	0.94	0.19	-	2.528	
R90*	-	-	-	-	-	-	-	6.125	0.875	-	1.06	0.19	-	4.55	
R91*	-	-	-	-	-	-	-	10.250	1.250	-	1.50	0.19	-	15.05	
R92	-	-	-	-	-	-	-	9.000	0.438	0.69	0.63	0.16	2.07	2.02	
R93	-	26	-	-	-	-	-	29.500	0.750	-	0.94	-	-	16.33	
R94	-	28	-	-	-	-	-	31.500	0.750	-	0.94	-	-	17.44	
R95	-	30	-	-	-	-	-	33.750	0.750	-	0.94	-	-	18.69	
R96	-	32	-	-	-	-	-	36.000	0.875	-	1.06	-	-	26.65	
R97	-	34	-	-	-	-	-	38.000	0.875	-	1.06	-	-	28.13	
R98	-	36	-	-	-	-	-	40.125	0.875	-	1.06	-	-	29.79	
R99*	-	-	-	-	-	-	-	9.250	0.438	-	0.63	0.19	-	2.08	
R100	-	-	26	-	-	-	-	29.500	1.125	-	1.38	-	R100 through R105 information available on request		
R101	-	-	28	-	-	-	-	31.500	1.250	-	1.50	-			
R102	-	-	30	-	-	-	-	33.750	1.250	-	1.50	-			
R103	-	-	32	-	-	-	-	36.000	1.250	-	1.50	-			
R104	-	-	34	-	-	-	-	38.000	1.375	-	1.63	-			
R105	-	-	36	-	-	-	-	40.250	1.375	-	1.63	-			

Dimensions in Inches

(\* ) Denotes ring number specified in API 6A.

Nominal Pipe Sizes in brackets apply to class rating 3000 only.

Nominal Pipe Sizes marked ( \*\* ) apply to class rating 2000 only.

Ring no. R30 is suitable for lapped flanges only.