

STYLE R

Ring Type Joint Gasket / LoneStar



TECHNICAL DATA SHEET

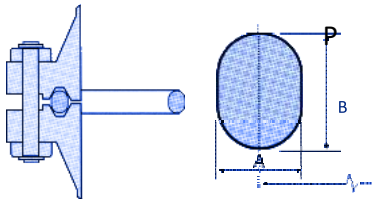
Description

Style TME R being the standard ring joint gasket, manufactured in accordance to ASME B16.20 and API 6A. Available in Oval and Octagonal shape which are both interchangeable within octagonal type grooved flanges.

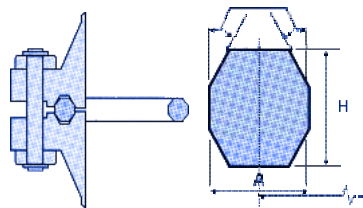
TME R



Oval Shape



Octagonal Shape



Tolerances: (Inches)

A (Width of Ring)	± 0.008
B, H (Height of Ring)	± 0.020
P (Ave. Pitch Diameter of Ring)	± 0.007
23°(Angle)	$\pm \frac{1}{2}^{\circ}$

Available Gasket Material

Material	STANDARD		Maximum Hardness	
	UNS	ASME	Brinell	Rockwell
Soft Iron	-	D	90	56
Low Carbon Steel	-	S	120	68
4-6% Chrome ½% Moly (F5)	K42544	F5	130	72
Type 304 Stainless Steel	S30400	S304	160	83
Type 316 Stainless Steel	S31600	S316	160	83
Alloy 321	S32100	S321	217	95
Alloy 625	N06625	INC625	200	93
Alloy 825	N08825	IN825	160	83

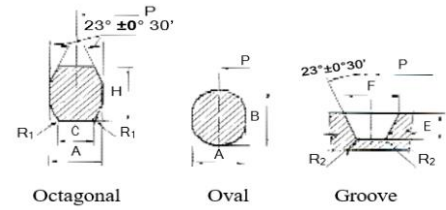


Further Inquiries

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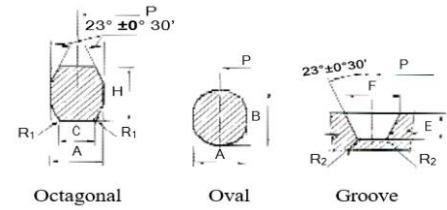
STYLE R RING DIMENSIONS



Ring No.	Pipe sizes and pressure class rating for Type R Ring Gaskets								Pitch diameter of ring (groove)	Width of ring	Height of ring oval	Height of ring octagonal	Width of flat of octagonal ring	Radius in octagonal ring	Depth of groove	Width of groove	Radius in groove	Approx. distance between made-up flanges	Weight oval	Weight octagonal
	ANSI, BS / MSS				API (PSI)				P	A	B	H	C	R ₁	E	F	R ₂	S		
									±0.007 (±0.005)	±0.008	±0.02	±0.02	±0.008	±0.02	+0.02	±0.008	max.			
	150	300/600	900	1500	2500	2000	3000	5000	Dimension in inches										Lbs	Lbs
R-11	...	1/2"	...	...	...	...	...	...	1.344	0.250	0.44	0.38	0.17	0.06	...	...	...	...	0.111	0.104
R-12	...	...	1/2"	1/2"	...	...	...	...	1.563	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.216	0.200
R-13	...	3/4"	...	...	1/2"	...	...	...	1.688	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.234	0.216
R-14	...	...	3/4"	3/4"	...	...	...	...	1.750	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.242	0.224
R-15	1"	...	...	...	...	...	...	...	1.875	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.26	0.240
R-16	...	1"	1"	1"	3/4"	1"	1"	1"	2.000	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.278	0.256
R-17	1-1/4"	...	...	...	...	...	...	...	2.250	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.311	0.288
R-18	...	1-1/4"	1-1/4"	1-1/4"	1	1-1/4"	1-1/4"	1-1/4"	2.375	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.328	0.304
R-19	1-1/2"	...	...	...	...	...	...	...	2.563	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.354	0.328
R-20*	...	1-1/2"	1-1/2"	1-1/2"	...	1-1/2"	1-1/2"	1-1/2"	2.688	0.313	0.56	0.50	0.206	0.06	0.25	0.344	0.03	0.16	0.372	0.344
R-21	...	...	...	...	1-1/4"	...	...	...	2.844	0.438	0.69	0.63	0.305	0.06	...	...	...	...	0.66	0.643
R-22	2"	...	...	...	...	...	...	...	3.250	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.45	0.415
R-23*	...	2"	...	...	1-1/2"	2"	...	...	3.250	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	0.755	0.734
R-24*	...	...	2"	2"	...	...	2"	2"	3.750	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	0.87	0.846
R-25	2-1/2"	...	...	...	...	...	...	...	4.000	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.553	0.510
R-26*	...	2-1/2"	...	...	2"	2-1/2"	...	...	4.000	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	0.93	0.904
R-27*	...	...	2-1/2"	2-1/2"	...	...	2-1/2"	2-1/2"	4.250	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.05	0.960
R-28	...	...	...	...	2-1/2"	...	...	...	4.375	0.500	0.75	0.69	0.341	0.06	...	...	...	...	1.255	1.230
R-29	3"	...	...	...	...	...	...	...	4.500	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.622	0.575
(R-30)	...	3"	...	...	...	...	...	...	4.625	0.438	0.69	0.63	0.305	0.06	...	...	...	...	1.075	1.047
R-31*	...	3"	3"	...	...	3"	3"	...	4.875	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.13	1.100
R-32	...	...	...	...	3"	...	...	...	5.000	0.500	0.75	0.69	0.341	0.06	...	...	...	...	1.435	1.405
R-33	3-1/2"	...	...	...	...	...	...	...	5.188	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.718	0.664
R-34	...	3-1/2"	...	...	...	...	...	...	5.188	0.438	0.69	0.63	0.305	0.06	...	...	...	...	1.2	1.170

Technical Data Sheet

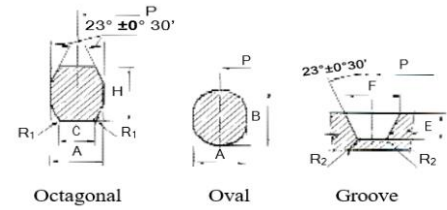
STYLE R RING DIMENSIONS



Ring No.	Pipe sizes and pressure class rating for Type R Ring Gaskets								Pitch diameter of ring (groove)	Width of ring	Height of ring oval	Height of ring octagon	Width of flat of octagon ring	Radius in octagon ring	Depth of groove	Width of groove	Radius in groove	Approx. distance between made-up flanges	Weight oval	Weight octagonal
	ANSI, BS / MSS					API (PSI)			P	A	B	H	C	R ₁	E	F	R ₂	S		
									±0.007 (±0.005)	±0.008	±0.02	±0.02	±0.008	±0.02	+0.02	±0.008	max.			
	150	300/600	900	1500	2500	2000	3000	5000	Dimension in inches										Lbs	Lbs
R-35*	...	...	...	3"	...	...	...	3"	5.375	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.25	1.210
R-36	4"	...	...	...	...	...	...	...	5.875	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.813	0.735
R-37*	...	4"	4"	...	...	4"	4"	3-1/2"	5.875	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.36	1.330
R-38	...	...	...	...	4"	...	...	4"	6.188	0.625	0.88	0.81	0.413	0.06	...	...	...	...	2.560	2.520
R-39*	...	...	...	4"	...	...	...	4"	6.375	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.48	1.440
R-40	5"	...	...	...	...	...	...	...	6.750	0.313	0.56	0.50	0.206	0.06	...	...	...	...	0.935	0.865
R-41*	...	5"	5"	...	...	5"	5"	...	7.125	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.66	1.610
R-42	...	...	...	...	5"	...	...	...	7.500	0.750	1	0.94	0.485	0.06	...	...	...	...	4.21	4.160
R-43	6"	...	...	...	...	...	...	...	7.625	0.313	0.56	0.50	0.206	0.06	...	...	...	...	1.055	0.975
R-44*	...	...	...	5"	...	...	...	5"	7.625	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.77	1.730
R-45*	...	6"	6"	...	...	6"	6"	...	8.313	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	1.93	1.880
R-46*	...	...	...	6"	...	...	...	6"	8.313	0.500	0.75	0.69	0.341	0.06	0.38	0.531	0.06	0.19	2.39	2.330
R-47*	...	...	...	...	6"	...	...	...	9.000	0.750	1	0.94	0.485	0.06	0.5	0.781	0.06	0.16	5.06	4.990
R-48	8"	...	...	...	...	...	...	...	9.750	0.313	0.56	0.50	0.206	0.06	...	...	...	...	1.35	1.240
R-49*	...	8"	8"	...	...	8"	8"	...	10.625	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	2.47	2.400
R-50*	...	...	...	8"	...	...	...	8"	10.625	0.625	0.88	0.81	0.413	0.06	0.44	0.656	0.06	0.16	4.4	4.320
R-51	...	...	...	...	8"	...	...	...	11.000	0.875	1.13	1.06	0.583	0.06	...	...	...	...	8.05	8.170
R-52	10"	...	...	...	...	...	...	...	12.000	0.313	0.56	0.50	0.206	0.06	...	...	...	...	1.66	1.530
R-53*	...	10"	10"	...	...	10"	10"	...	12.750	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	3	2.880
R-54*	...	...	...	10"	...	...	...	10"	12.750	0.625	0.88	0.81	0.413	0.06	0.44	0.656	0.06	0.16	5.29	5.180
R-55	...	...	...	...	10"	...	...	...	13.500	1.125	1.44	1.38	0.78	0.09	...	...	...	...	16.23	17.040
R-56	12"	...	...	...	...	...	...	...	15.000	0.313	0.56	0.50	0.206	0.06	...	...	...	...	2.07	1.920

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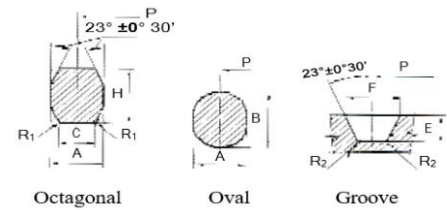
STYLE R RING DIMENSIONS



Ring No.	Pipe sizes and pressure class rating for Type R Ring Gaskets								Pitch diameter of ring (groove)	Width of ring	Height of ring oval	Height of ring octagonal	Width of flat of octagonal ring	Radius in octagonal ring	Depth of groove	Width of groove	Radius in groove	Approx. distance between made-up flanges	Weight oval	Weight octagonal
	ANSI, BS / MSS				API (PSI)				P	A	B	H	C	R ₁	E	F	R ₂	S		
									±0.007 (±0.005)	±0.008	±0.02	±0.02	±0.008	±0.02	+0.02	±0.008	max.			
	150	300/600	900	1500	2500	2000	3000	5000	Dimension in inches										Lbs	Lbs
R-59	14"	...	...	...	...	...	...	...	15.625	0.313	0.56	0.50	0.206	0.06	...	...	...	...	2.160	2.000
R-60	...	...	...	...	12"	...	...	...	16.000	1.250	1.56	1.50	0.879	0.09	...	...	...	...	23.100	23.500
R-61	...	14"	...	...	...	14"	14"	...	16.500	0.438	0.69	0.63	0.305	0.06	...	...	...	...	3.830	3.730
R-62	...	...	14"	...	...	...	...	...	16.500	0.625	0.88	0.81	0.413	0.06	...	...	...	...	6.840	6.710
R-63*	...	...	...	14"	...	...	...	...	16.500	1.000	1.31	1.25	0.681	0.09	0.63	1.063	0.09	0.22	16.200	16.670
R-64	16"	...	...	...	...	...	...	...	17.875	0.313	0.56	0.50	0.206	0.06	...	...	...	...	2.470	2.290
R-65*	...	16"	...	...	...	16"	...	...	18.500	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	4.300	4.180
R-66*	...	...	16"	...	...	...	16"	...	18.500	0.625	0.88	0.81	0.413	0.06	0.44	0.656	0.06	0.16	7.670	7.530
R-67	...	...	...	16"	...	...	...	...	18.500	1.125	1.44	1.38	0.78	0.09	...	...	...	...	22.300	23.400
R-68	18"	...	...	...	...	...	...	...	20.375	0.313	0.56	0.50	0.206	0.06	...	...	...	...	2.820	2.600
R-69*	...	18"	...	...	...	18"	...	...	21.000	0.438	0.69	0.63	0.305	0.06	0.31	0.469	0.03	0.19	4.870	4.740
R-70*	...	...	18"	...	...	...	18"	...	21.000	0.750	1	0.94	0.485	0.06	0.5	0.781	0.06	0.19	11.800	11.640
R-71	...	...	...	18"	...	...	...	...	21.000	1.125	1.44	1.38	0.78	0.09	...	...	...	...	25.200	26.500
R-72	20"	...	...	...	...	...	...	...	22.000	0.313	0.56	0.50	0.206	0.06	...	...	...	...	3.040	2.810
R-73*	...	20"	...	...	...	20"	...	...	23.000	0.500	0.75	0.69	0.341	0.06	0.38	0.531	0.06	0.13	6.600	6.470
R-74*	...	...	20"	...	...	...	20"	...	23.000	0.750	1	0.94	0.485	0.06	0.5	0.781	0.06	0.19	12.950	12.750
R-75	...	...	...	20"	...	...	...	...	23.000	1.250	1.56	1.50	0.879	0.09	...	...	...	...	33.300	35.300
R-76	24"	...	...	...	...	...	...	...	26.500	0.313	0.56	0.50	0.206	0.06	...	...	...	...	3.660	3.380
R-77	...	24"	...	...	...	...	...	...	27.250	0.625	0.88	0.81	0.413	0.06	...	...	...	...	11.300	11.100
R-78	...	...	24"	...	...	...	...	...	27.250	1.000	1.31	1.25	0.681	0.09	...	...	...	...	27.100	27.580
R-79	...	...	...	24"	...	...	...	...	27.250	1.375	1.75	1.63	0.977	0.09	...	...	...	...	48.700	49.750
R-80	22"	...	...	...	...	...	...	...	24.250	0.313	...	0.50	0.206	0.06	...	...	...	...	...	3.110
R-81	...	22"	...	...	...	...	...	...	25.000	0.563	...	0.75	0.377	0.06	...	...	...	...	...	8.550
R-82*	...	...	...	...	...	...	...	...	2.250	0.438	...	0.63	0.305	0.06	0.31	0.469	0.03	0.19	...	0.508

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STYLE R RING DIMENSIONS



Ring No.	Pipe sizes and pressure class rating for Type R Ring Gaskets								Pitch diameter of ring (groove)	Width of ring	Height of ring oval	Height of ring octagonal	Width of flat of octagonal ring	Radius in octagonal ring	Depth of groove	Width of groove	Radius in groove	Approx. distance between made-up flanges	Weight oval	Weight octagonal
	ANSI, BS / MSS					API (PSI)			P	A	B	H	C	R ₁	E	F	R ₂	S		
									±0.007 (±0.005)	±0.008	±0.02	±0.02	±0.008	±0.02	+0.02	±0.008	max.			
	150	300/600	900	1500	2500	2000	3000	5000	Dimension in inches										Lbs	Lbs
R-84*	...	...	...	...	...	...	...	...	2.500	0.438	...	0.63	0.305	0.06	0.31	0.469	0.03	0.19	...	0.564
R-85*	...	...	...	...	...	...	...	...	3.125	0.500	...	0.96	0.341	0.06	0.38	0.531	0.06	0.13	...	0.978
R-86*	...	...	...	...	...	...	...	...	3.563	0.625	...	0.81	0.413	0.06	0.44	0.656	0.06	0.16	...	1.447
R-87*	...	...	...	...	...	...	...	...	3.938	0.625	...	0.81	0.413	0.06	0.44	0.656	0.06	0.16	...	1.597
R-88*	...	...	...	...	...	...	...	...	4.875	0.750	...	0.94	0.485	0.06	0.5	0.781	0.06	0.19	...	2.735
R-89*	...	...	...	...	...	...	...	...	4.500	0.750	...	0.94	0.485	0.06	0.5	0.781	0.06	0.19	...	2.528
R-90*	...	...	...	...	...	...	...	...	6.125	0.875	...	1.06	0.583	0.06	0.56	0.906	0.06	0.19	...	4.550
R-91*	...	...	...	...	...	...	...	...	10.250	1.250	...	1.50	0.879	0.09	0.69	1.313	0.09	0.16	2.070	15.050
R-92	...	...	...	...	...	...	...	...	9.000	0.438	0.69	0.63	0.305	0.06	...	...	...	...	...	2.020
R-93	...	26"	...	...	...	...	...	...	29.500	0.750	...	0.94	0.485	0.06	...	...	...	...	...	16.330
R-94	...	28"	...	...	...	...	...	...	31.500	0.750	...	0.94	0.485	0.06	...	...	...	...	...	17.440
R-95	...	30"	...	...	...	...	...	...	33.750	0.750	...	0.94	0.485	0.06	...	...	...	...	...	18.690
R-96	...	32"	...	...	...	...	...	...	36.000	0.875	...	1.06	0.583	0.06	...	...	...	...	...	26.650
R-97	...	34"	...	...	...	...	...	...	38.000	0.875	...	1.06	0.583	0.06	...	...	...	...	...	28.130
R-98	...	36"	...	...	...	...	...	...	40.250	0.875	...	1.06	0.583	0.06	...	...	...	...	...	29.790
R-99*	...	...	...	...	...	8"	8"	...	9.250	0.438	...	0.63	0.305	0.06	0.31	0.469	0.03	0.19	...	2.080
R-100	...	...	26"	...	...	...	...	...	29.500	1.125	...	1.38	0.78	0.09	...	...	...	...	...	
R-101	...	...	28"	...	...	...	...	...	31.500	1.250	...	1.50	0.879	0.09	...	...	...	...	...	
R-102	...	...	30"	...	...	...	...	...	33.750	1.250	...	1.50	0.879	0.09	...	...	...	...	...	
R-103	...	...	32"	...	...	...	...	...	36.000	1.250	...	1.50	0.879	0.09	...	...	...	...	...	
R-104	...	...	34"	...	...	...	...	...	38.000	1.375	...	1.63	0.977	0.09	...	...	...	...	...	
R-105	...	...	36"	...	...	...	...	...	40.250	1.375	...	1.63	0.977	0.09	...	...	...	...	...	

* Denotes ring number specified in API.
(R-30) ring number is suitable for lapped flanges only.