

# STYLE R

Dimensions in inches

RING NO.	PRESSURE CLASS RATINGS						PITCH DIAMETER OF RING P	WIDTH OF RING A	HEIGHT OF RING		APPROX. DISTANCE BETWEEN MADE UP FLANGES	GASKET WEIGHTS, lbs.	
	ANSI, BS & MSS				API (PSI)				OVAL B	OCTAGONAL H		OVAL	OCTAGONAL
	150	300/600	900	1500	2500	2000/3000							
	NOMINAL PIPE SIZE (INCHES)												
R11	—	1/2	—	—	—	—	34.13	6.35	11.1	9.5	—	.111	.104
R12	—	—	1/2	1/2	—	—	39.69	7.95	14.3	12.7	—	.216	.20
R13	—	3/4	—	—	1/2	—	42.86	7.95	14.3	12.7	—	.234	.216
R14	—	—	3/4	3/4	—	—	44.45	7.95	14.3	12.7	—	.242	.224
R15	1	—	—	—	—	—	47.63	7.95	14.3	12.7	—	.260	.24
R16	—	1	1	1	3/4	—	50.80	7.95	14.3	12.7	—	.278	.256
R17	1 1/4	—	—	—	—	—	57.15	7.95	14.3	12.7	—	.311	.288
R18	—	1 1/4	1 1/4	1 1/4	1	—	60.33	7.95	14.3	12.7	—	.328	.304
R19	1 1/2	—	—	—	—	—	65.09	7.95	14.3	12.7	—	.354	.328
R20*	—	1 1/2	1 1/2	1 1/2	—	—	68.28	7.95	14.3	12.7	4.1	.372	.344
R21	—	—	—	—	1 1/4	—	72.23	11.11	17.5	15.9	—	.660	.643
R22	2	—	—	—	—	—	82.55	7.95	14.3	12.7	—	.450	.415
R23*	—	2	—	—	1 1/2	2 1/16**	82.55	11.11	17.5	15.9	4.8	.755	.734
R24*	—	—	2	2	—	2 1/16	95.25	11.11	17.5	15.9	4.8	.870	.846
R25	2 1/2	—	—	—	—	—	101.60	7.95	14.3	12.7	—	.553	.510
R26*	—	2 1/2	—	—	2	2 9/16	101.60	11.11	17.5	15.9	4.8	.930	.904
R27*	—	—	2 1/2	2 1/2	—	(2 9/16)	107.95	11.11	17.5	15.9	—	1.050	.96
R28	—	—	—	—	2 1/2	—	111.13	12.70	19.1	17.5	—	1.255	1.23
R29	3	—	—	—	—	—	114.30	7.95	14.3	12.7	—	.622	.575
R30†	—	3	—	—	—	—	117.48	11.11	17.5	15.9	—	1.075	1.047
R31*	—	3	3	—	—	3 1/8	123.83	11.11	17.5	15.9	4.8	1.130	1.10
R32	—	—	—	—	3	—	127.00	12.70	19.1	17.5	—	1.435	1.405
R33	3 1/2	—	—	—	—	—	131.76	7.95	14.3	12.7	—	.718	.664
R34	—	3 1/2	—	—	—	—	131.76	11.11	17.5	15.9	—	1.200	1.17
R35*	—	—	—	3	—	—	136.53	11.11	17.5	15.9	4.8	1.250	1.21
R36	4	—	—	—	—	—	149.23	7.95	14.3	12.7	—	.813	.735
R37*	—	4	4	—	—	4 1/16	149.23	11.11	17.5	15.9	4.8	1.360	1.33
R38	—	—	—	4	—	—	157.16	15.88	22.4	20.6	—	2.56	2.52
R39*	—	—	—	4	—	4 1/16	161.93	11.11	17.5	15.9	4.8	1.480	1.44
R40	5	—	—	—	—	—	171.45	7.95	14.3	12.7	—	.935	.865
R41*	—	5	5	—	—	—	180.98	11.11	17.5	15.9	4.8	1.66	1.61
R42	—	—	—	5	—	—	190.50	19.05	25.4	23.9	—	4.21	4.16
R43	6	—	—	—	—	—	193.68	7.95	14.3	12.7	—	1.055	.975
R44*	—	—	—	5	—	—	193.68	11.11	17.5	15.9	4.8	1.77	1.73
R45*	—	6	6	—	—	7 1/16	211.14	11.11	17.5	15.9	4.8	1.93	1.88
R46*	—	—	—	6	—	7 1/16	211.14	12.70	19.1	17.5	4.8	2.39	2.33
R47*	—	—	—	6	—	—	228.60	19.05	25.4	23.9	4.1	5.06	4.99
R48	8	—	—	—	—	—	247.65	7.95	14.3	12.7	—	1.350	1.24
R49*	—	8	8	—	—	9	269.88	11.11	17.5	15.9	4.8	2.47	2.40
R50*	—	—	—	8	—	9	269.88	15.88	22.4	20.6	4.1	4.40	4.32
R51	—	—	—	8	—	—	279.40	22.23	28.6	27.0	—	8.05	8.17
R52	10	—	—	—	—	—	304.80	7.95	14.3	12.7	—	1.66	1.53
R53*	—	10	10	—	—	11	323.85	11.11	17.5	15.9	4.8	3.00	2.88
R54*	—	—	—	10	—	11	323.85	15.88	22.4	20.6	4.1	5.29	5.18
R55	—	—	—	10	—	—	342.90	28.58	36.5	34.9	—	16.23	17.04
R56	12	—	—	—	—	—	381.00	7.95	14.3	12.7	—	2.07	1.92
R57*	—	12	12	—	—	13 5/8	381.00	11.11	17.5	15.9	4.8	3.48	3.38

\* Denotes ring number specified in API 6A.  
 Nominal Pipe Sizes marked\*\* apply to class rating 2000 only.  
 Nominal Pipe Sizes in brackets apply to class rating 3000 only.  
 † Ring no. R30 is suitable for lapped flanges only.

# STYLE R

Dimensions in inches

RING NO.	PRESSURE CLASS RATINGS							PITCH DIAMETER OF RING	WIDTH OF RING	HEIGHT OF RING		APPROX. DISTANCE BETWEEN MADE UP FLANGES	GASKET WEIGHTS, lbs.	
	ANSI, BS & MSS					API (PSI)				OVAL	OCTAGONAL		OVAL	OCTAGONAL
	150	300/600	900	1500	2500	2000/3000	5000							
NOMINAL PIPE SIZE (INCHES)							P	A	B	H				
R58	-	-	-	12	-	-	-	381.00	22.23	28.6	27.0	-	11.00	11.13
R59	14	-	-	-	-	-	-	396.88	7.95	14.3	12.7	-	2.16	2.00
R60	-	-	-	-	12	-	-	406.40	31.75	39.7	38.1	-	23.10	23.50
R61	-	14	-	-	-	-	-	419.10	11.11	17.5	15.9	-	3.83	3.73
R62	-	-	14	-	-	-	-	419.10	15.88	22.2	20.6	-	6.84	6.71
R63*	-	-	-	14	-	-	-	419.10	25.40	33.3	31.8	5.6	16.20	16.67
R64	16	-	-	-	-	-	-	454.03	7.95	14.3	12.7	-	2.47	2.29
R65*	-	16	-	-	-	16 3/4**	-	469.90	11.11	17.5	15.9	4.8	4.30	4.18
R66*	-	-	16	-	-	(16)	-	469.90	15.88	22.2	20.6	4.1	7.67	7.53
R67	-	-	-	16	-	-	-	469.90	28.58	36.5	34.9	-	22.30	23.40
R68	18	-	-	-	-	-	-	517.53	7.95	14.3	12.7	-	2.82	2.60
R69*	-	18	-	-	-	-	-	533.40	11.11	17.5	15.9	4.8	4.87	4.74
R70*	-	-	18	-	-	(18)	-	533.40	19.05	25.4	23.9	4.8	11.80	11.64
R71	-	-	-	18	-	-	-	533.40	28.58	36.5	34.9	-	25.20	26.50
R72	20	-	-	-	-	-	-	558.80	7.95	14.3	12.7	-	3.04	2.81
R73*	-	20	-	-	-	21 1/4**	-	584.20	12.7	19.1	17.5	3.3	6.60	6.47
R74*	-	-	20	-	-	(20 3/4)	-	584.20	19.05	25.4	23.9	4.8	12.95	12.75
R75	-	-	-	20	-	-	-	584.20	31.75	39.7	38.1	-	33.30	35.30
R76	24	-	-	-	-	-	-	673.10	7.95	14.3	12.7	-	3.66	3.38
R77	-	24	-	-	-	-	-	692.15	15.88	22.4	20.6	-	11.30	11.10
R78	-	-	24	-	-	-	-	692.15	25.4	33.3	31.8	-	27.10	27.58
R79	-	-	-	24	-	-	-	692.15	34.93	44.5	41.3	-	48.70	49.75
R80	22	-	-	-	-	-	-	615.95	7.95	-	12.7	-	-	3.11
R81	-	22	-	-	-	-	-	635.00	14.29	-	19.1	-	-	8.55
R82*	-	-	-	-	-	-	-	57.14	11.11	-	15.9	4.8	-	.508
R84*	-	-	-	-	-	-	-	63.50	11.11	-	15.9	4.8	-	.564
R85*	-	-	-	-	-	-	-	79.38	12.70	-	17.5	3.3	-	.978
R86*	-	-	-	-	-	-	-	90.50	15.88	-	20.6	4.1	-	1.447
R87*	-	-	-	-	-	-	-	100.03	15.88	-	20.6	4.1	-	1.597
R88*	-	-	-	-	-	-	-	122.83	19.05	-	23.9	4.8	-	2.735
R89*	-	-	-	-	-	-	-	114.30	19.05	-	23.9	4.8	-	2.528
R90*	-	-	-	-	-	-	-	155.58	22.23	-	26.9	4.8	-	4.55
R91*	-	-	-	-	-	-	-	260.25	31.75	-	38.1	4.1	-	15.05
R92	-	-	-	-	-	-	-	228.60	11.11	17.5	15.9	-	2.07	2.02
R93	-	26	-	-	-	-	-	749.30	19.05	-	23.9	-	-	16.33
R94	-	28	-	-	-	-	-	800.10	19.05	-	23.9	-	-	17.44
R95	-	30	-	-	-	-	-	857.25	19.05	-	23.9	-	-	18.69
R96	-	32	-	-	-	-	-	914.40	22.23	-	27.0	-	-	26.65
R97	-	34	-	-	-	-	-	965.20	22.23	-	27.0	-	-	28.13
R98	-	36	-	-	-	-	-	1022.35	22.23	-	27.0	-	-	29.79
R99*	-	-	-	-	-	-	-	234.95	11.11	-	15.9	4.8	-	2.08
R100	-	-	26	-	-	-	-	749.30	28.58	-	34.9	-	-	-
R101	-	-	28	-	-	-	-	800.10	31.75	-	38.1	-	-	-
R102	-	-	30	-	-	-	-	857.25	31.75	-	38.1	-	-	-
R103	-	-	32	-	-	-	-	914.40	31.75	-	38.1	-	-	-
R104	-	-	34	-	-	-	-	965.20	34.93	-	41.3	-	-	-
R105	-	-	36	-	-	-	-	1022.35	34.93	-	41.3	-	-	-

\* Denotes ring number specified in API 6A.  
 Nominal Pipe Sizes marked\*\* apply to class rating 2000 only.  
 Nominal Pipe Sizes in brackets apply to class rating 3000 only.  
 † Ring no. R30 is suitable for lapped flanges only.

## STYLE RX

Dimensions in inches

NO.	PRESSURE CLASS RATING (PSI)			PITCH DIAMETER OF RING P	OUTSIDE DIAMETER OF RING OD	WIDTH OF RING A	HEIGHT OF RING H	WEIGHT, lbs.
	2000	3000	5000					
	NOMINAL PIPE SIZE (INCHES)							
RX20	–	–	–	68.26	76.20	8.73	19.05	0.527
RX20†	–	–	2 1/16	68.26	76.20	8.73	19.05	0.527
RX23	2 1/16	–	–	82.55	93.27	11.91	25.40	1.15
RX24	–	2 1/16	2 1/16	95.25	105.97	11.91	25.40	1.33
RX25†	–	–	3 1/8	101.60	109.54	8.73	19.05	1.42
RX26	2 9/16	–	–	101.60	111.92	11.91	25.40	1.50
RX27	–	2 9/16	2 9/16	107.95	118.27	11.91	25.40	1.73
RX31	3 1/8	3 1/8	–	123.83	134.54	11.91	25.40	1.91
RX35	–	–	3 1/8	136.53	147.24	11.91	25.40	2.09
RX37	4 1/16	4 1/16	–	149.23	159.94	11.91	25.40	2.27
RX39	–	–	4 1/16	161.93	172.64	11.91	25.40	2.54
RX41	–	–	–	180.98	191.69	11.91	25.40	2.72
RX44	–	–	–	193.68	204.39	11.91	25.40	2.96
RX45	7 1/16	7 1/16	–	211.14	211.93	11.91	25.40	3.66
RX46	–	–	7 1/16	211.14	222.25	13.49	28.58	8.56
RX47	–	–	–	228.60	245.27	19.84	41.28	3.79
RX49	9	9	–	269.88	280.59	11.91	25.40	5.36
RX50	–	–	9	269.88	283.37	16.67	31.75	4.56
RX53	11	11	–	323.85	334.57	11.91	25.40	6.45
RX54	–	–	11	323.85	337.34	16.67	31.75	5.36
RX57	13 5/8	13 5/8	–	381.00	391.72	11.91	25.40	26.40
RX63	–	–	–	419.10	441.72	26.99	50.80	6.63
RX65	16 3/4	–	–	469.90	480.62	11.91	25.40	9.39
RX66	–	16 3/4	–	469.90	483.39	16.67	31.75	7.52
RX69	–	–	–	533.40	544.12	11.91	25.40	20.14
RX70	–	–	–	533.40	550.07	19.84	41.28	11.63
RX73	21 1/4	–	–	584.20	596.11	13.49	31.75	22.10
RX74	–	20 3/4	–	584.20	600.87	19.84	41.28	0.790
RX82	–	–	–	57.15	67.87	11.91	25.40	0.880
RX84	–	–	–	63.50	74.22	11.91	25.40	0.880
RX85	–	–	–	79.38	90.09	13.49	25.40	1.79
RX86	–	–	–	90.49	103.58	15.08	28.58	1.98
RX87	–	–	–	100.01	113.11	15.08	28.58	3.22
RX88	–	–	–	123.83	139.30	17.46	31.75	2.98
RX89	–	–	–	114.30	129.78	18.26	31.75	6.82
RX90	–	–	–	155.58	174.63	19.84	44.45	17.10
RX91	–	–	–	260.35	286.94	30.16	45.24	3.31
* RX99	–	–	–	234.95	245.67	11.91	25.40	–
RX201†	–	–	1 3/8	46.04	46.04	5.74	11.30	–
* RX205†	–	–	1 13/16	57.15	62.31	5.56	11.10	–
* RX210†	–	–	2 9/16	88.90	97.63	9.53	19.05	–
* RX215	–	–	4 1/16	130.18	140.89	11.91	25.40	–
* RX215†	–	–	4 1/16 x 4 1/4	130.18	140.89	11.91	25.40	–

\* API allows more liberal tolerances on RX 201–215

† Denotes API Ring Type Joint gaskets for segmented flanges for dual completions to API Standard 6A.

Designs are also available for Subsea applications.

## STYLE BX

Dimensions in inches

RING NO.	PRESSURE CLASS RATING (PSI)				OUTSIDE DIAMETER OF RING OD	HEIGHT OF RING H	WIDTH OF RING A	HOLE SIZE D	GASKET WEIGHT, lbs. FOR API 6BX FLANGES
	5000	10000	15000	20000					
	NOMINAL PIPE SIZE (INCHES)								
BX150	–	–	–	–	72.19	9.30	9.30	1.59	0.295
BX151	–	1 13/16	1 13/16	1 13/16	76.40	9.63	9.63	1.59	0.337
BX152	–	2 1/16	2 1/16	2 1/16	84.68	10.24	10.24	1.59	0.425
BX153	–	2 9/16	2 9/16	2 9/16	100.94	11.38	11.38	1.59	0.632
BX154	–	3 1/16	3 1/16	3 1/16	116.84	12.40	12.40	1.59	0.875
BX155	–	4 1/16	4 1/16	4 1/16	147.96	14.22	14.22	1.59	1.22
BX156	–	7 1/16	7 1/16	7 1/16	237.92	18.62	18.62	3.18	4.14
BX157	–	9	9	9	294.46	20.98	20.98	3.18	6.55
BX158	–	11	11	11	352.04	23.14	23.14	3.18	9.60
BX159	–	13 5/8	13 5/8	13 5/8	426.72	25.70	25.70	3.18	14.41
BX160	13 5/8	–	–	–	402.59	23.83	13.74	3.18	6.75
BX161	16 3/4	–	–	–	491.41	28.07	16.21	3.18	–
BX162	16 3/4	16 3/4	16 3/4	–	475.49	14.22	14.22	1.59	–
BX163	18 3/4	–	–	–	556.16	30.10	17.37	3.18	–
BX164	–	18 3/4	18 3/4	–	570.56	30.10	24.59	3.18	–
BX165	21 1/4	–	–	–	624.71	32.03	18.49	3.18	–
BX166	–	21 1/4	–	–	640.03	32.03	26.14	3.18	–
BX167*	–	–	–	–	759.36	35.87	13.11	1.59	–
BX168†	–	–	–	–	765.25	35.87	16.05	1.59	–
BX169**	–	–	–	–	173.51	15.85	12.93	1.59	–
BX170	–	–	–	–	218.03	14.22	14.22	1.59	–
BX171	–	–	–	–	267.44	14.22	14.22	1.59	–
BX172	–	–	–	–	333.07	14.22	14.22	1.59	–
BX303††	–	–	–	–	852.75	37.95	16.97	1.59	–

\* BX167 is suitable for 26 3/4 Nominal Pipe Size 2,000 psi rating.

\*\* BX169 is suitable for 5 3/4 Nominal Pipe Size 10,000 psi rating.

† BX168 is suitable for 26 3/4 Nominal Pipe Size 3,000 psi rating.

†† BX303 is suitable for 30 Nominal Pipe Size 2,000 and 3,000 psi ratings.

Designs are also available for Subsea applications.