

SERIES 900 FLANGE

Pipe Size	Wrench Size	Flange Bolts		Raised Face			Flange Dia.	Ring Joint	
		Quan.	Size	Stud L'gth.	Gasket			Stud L'gth.	Ring No.
					I.D.	O.D.			
1	1 7/16	4	7/8	5	1 5/16	3 1/8	3 7/8	5	R16
1 1/2	1 5/8	6	1	5 1/2	1 29/32	3 7/8	3	5 1/2	R20
2	1 7/16	8	7/8	5 3/4	2	5 1/2	5 1/2	6	R24
3	1 7/16	8	7/8	5 3/4	3	6 1/2	6 1/2	6	R31
4	1 13/16	8	1 1/8	6 3/4	4	8 1/2	11 1/2	7	R37
6	1 13/16	12	1 1/8	7 3/4	6	11 3/8	15	8	R45
8	2 3/16	12	1 3/8	8 3/4	7 1/8	14 1/2	18 1/2	9	R49
10	2 3/16	16	1 3/8	9 1/4	9 3/4	17 1/2	27 1/2	9 1/2	R53
12	2 3/16	20	1 3/8	10	11 3/4	19 5/8	24	10 1/4	R57
14	2 3/8	20	1 1/2	10 3/4	12 7/8	20 1/2	25 1/2	11 1/4	R62
16	2 9/16	20	1 5/8	11 1/4	14 3/4	22 5/8	27 1/4	11 3/4	R66
18	2 15/16	20	1 7/8	13	16 1/2	25 1/8	37	13 1/2	R70
20	3 1/8	20	2	13 3/4	18 1/4	27 1/2	33 3/4	14 1/2	R74
24	3 7/8	20	2 1/2	17 1/4	22	33	41	18 1/4	R78

SERIES 1500 FLANGE

Pipe Size	Wrench Size	Flange Bolts		Raised Face	Ring Joint	
		Quan.	Size	1/16"	Stud L'gth.	Ring No.
				Stud L'gth.		
1	1 7/16	4	7/8	5	5	R16
1 1/2	1 5/8	4	1	5 1/2	5 1/2	R20
2	1 7/16	8	7/8	5 3/4	5 3/4	R24
3	1 13/16	8	1 1/8	7	7	R35
4	2	8	1 1/4	7 3/4	7 3/4	R39
6	2 3/16	12	1 3/8	10 1/4	10 1/2	R46
8	2 7/16	12	1 5/8	11 1/2	12 3/4	R50
10	2 15/16	12	1 7/8	13 1/4	13 1/2	R54
12	3 1/8	16	2	14 3/4	15 1/4	R58
14	3 1/2	16	2 1/4	16	16 3/4	R63
16	3 7/8	16	2 1/2	17 1/2	18 1/2	R67
18	4 1/4	16	2 3/4	19 1/2	20 3/4	R71
20	4 5/8	16	3	21 1/4	22 1/4	R75
24	5 3/8	16	3 1/2	24 1/4	25 1/2	R79



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SERIES 150 FLANGE

Pipe Size	Wrench Size	Flange Bolts		Raised Face			Flange Dia.	Ring Joint	
		Quan.	Size	Stud L'gth.	Gasket			Stud L'gth.	Ring No.
					I.D.	O.D.			
1	7/8	4	1/2	2 1/2	1	2 5/8	4 1/4	3	R15
1 1/2	7/8	4	1/2	2 3/4	1 1/2	3 3/8	5	5 1/4	R19
2	1 1/16	4	5/8	3 1/4	2	4 1/2	6	3 3/4	R22
3	1 1/16	4	5/8	3 1/2	3	5 3/8	7 1/2	4 1/4	R29
4	1 1/16	8	5/8	3 1/2	4	6 7/8	9	4 1/4	R36
6	1 1/4	8	3/4	4	6	8 3/4	11	4 1/2	R43
8	1 1/4	8	3/4	4 1/4	8	11	13 1/2	4 3/4	R48
10	1 7/16	12	7/8	4 3/4	10	13 3/8	16	5 1/4	R52
12	1 7/16	12	7/8	4 3/4	12	16 1/8	19	5 1/2	R56
14	1 5/8	12	1	5 1/4	13 1/4	17 3/4	21	6	R59
16	1 5/8	16	1	5 1/2	15 1/4	20 1/4	23 1/2	6	R64
18	1 13/16	16	1 1/8	6	17 1/4	21 5/8	25	6 1/2	R68
20	1 13/16	20	1 1/8	6 1/4	19 1/4	23 7/8	27 1/2	7	R72
24	2	20	1 1/4	7	23 1/4	28 1/4	32	7 3/4	R76

SERIES 300 FLANGE

Pipe Size	Wrench Size	Flange Bolts		Raised Face			Flange Dia.	Ring Joint	
		Quan.	Size	Stud L'gth.	Gasket			Stud L'gth.	Ring No.
					I.D.	O.D.			
1	1 1/16	4	5/8	3	1	2 7/8	4 7/8	3 1/4	R16
1 1/2	1 1/4	4	3/4	3 1/2	1 1/2	3 3/4	6 1/8	4	R20
2	1 1/16	8	5/8	3 1/2	2	4 3/8	6 1/2	4 1/4	R23
3	1 1/4	8	3/4	4 1/4	3	5 7/8	8 1/2	5	R31
4	1 1/4	8	3/4	4 1/2	4	7 1/2	10	5 1/4	R37
6	1 1/4	12	3/4	4 3/4	6	9 7/8	12 1/2	5 3/4	R45
8	1 7/16	12	7/8	5 1/2	8	12 1/8	15	6 1/4	R49
10	1 5/8	16	1	6 1/4	10	14 1/4	17 1/2	7 1/4	R53
12	1 13/16	16	1 1/8	6 3/4	12	16 5/8	20 1/2	7 1/2	R57
14	1 13/16	20	1 1/8	7	13 1/4	19 1/8	23	7 3/4	R61
16	2	20	1 1/4	7 1/2	15 1/4	21 1/4	25 1/2	8 1/2	R65
18	2	24	1 1/4	7 3/4	17	23 1/2	28	8 1/4	R69
20	2	24	1 1/4	8 1/4	19	25 3/4	30 1/2	9 1/4	R73
24	2 3/8	24	1 1/2	9 1/4	23	30 1/2	36	10 1/4	R77

SERIES 600 FLANGE

Pipe Size	Wrench Size	Flange Bolts		Raised Face			Flange Dia.	Ring Joint	
		Quan.	Size	Stud L'gth.	Gasket			Stud L'gth.	Ring No.
					I.D.	O.D.			
1	1 1/16	4	5/8	3 1/2	1 5/16	2 7/8	4 7/8	3 1/2	R16
1 1/2	1 1/4	4	3/4	4 1/4	1 29/32	3 3/4	6 1/8	4 1/4	R20
2	1 1/16	8	5/8	4 1/4	2	4 3/8	6 1/2	4 1/2	R23
3	1 1/4	8	3/4	4	3	5 7/8	8 1/4	5 1/4	R31
4	1 7/16	8	7/8	5 3/4	4	7 5/8	10 3/4	6	R37
6	1 5/8	12	1	6 3/4	6	10 1/2	14	7	R45
8	1 13/16	12	1 1/8	7 3/4	7 7/8	12 5/8	16 1/2	8	R49
10	2	16	1 1/4	8 1/2	9 3/4	15 3/4	20	8 3/4	R53
12	2	20	1 1/4	8 3/4	11 3/4	18	22	9	R57
14	1 3/16	20	1 3/8	9 1/4	12 7/8	19 3/8	23 3/4	9 1/2	R61
16	2 3/8	20	1 1/2	10	14 3/4	22 1/4	27	10 1/4	R65
18	2 9/16	20	1 5/8	10 3/4	16 1/2	24 1/8	29 1/4	11	R69
20	2 9/16	24	1 5/8	11 1/2	18 1/4	26 7/8	32	11 3/4	R73
24	2 15/16	24	1 7/8	13	22	31 1/8	37	13 1/2	R77