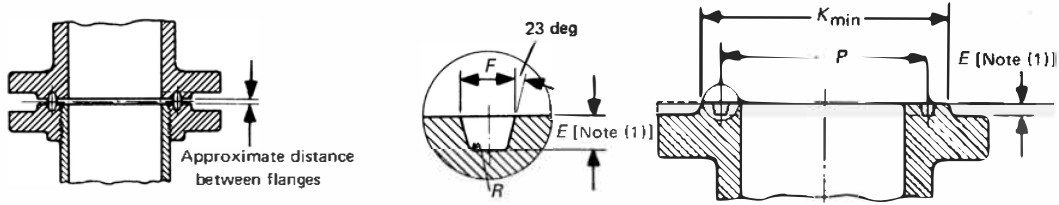


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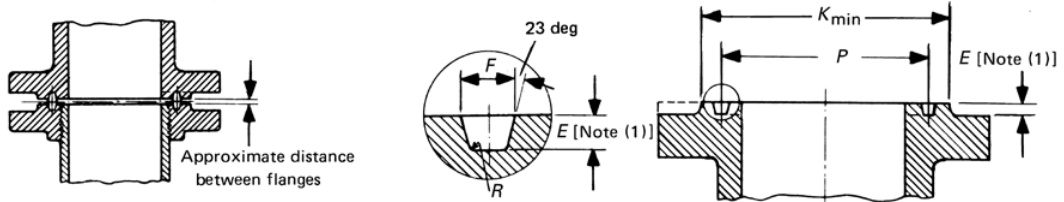
Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes)



Nominal Size							Groove Dimensions				Radius at Bottom, R
Class 150 NPS	Class 300 NPS	Class 400 NPS [Note (2)]	Class 600 NPS	Class 900 NPS [Note (3)]	Class 1500 NPS	Class 2500 NPS	Groove Number	Pitch Diameter, P	Depth, E [Note (1)]	Width, F	
...	1/2	...	1/2	...	...	...	11	34.14	5.54	7.14	0.8
...	...	...	...	...	1/2	...	12	39.67	6.35	8.74	0.8
...	3/4	...	3/4	...	...	1/2	13	42.88	6.35	8.74	0.8
...	...	...	...	...	3/4	...	14	44.45	6.35	8.74	0.8
1	...	...	...	...	...	...	15	47.63	6.35	8.74	0.8
...	1	...	1	...	1	3/4	16	50.80	6.35	8.74	0.8
1 1/4	...	...	...	...	...	...	17	57.15	6.35	8.74	0.8
...	1 1/4	...	1 1/4	...	1 1/4	1	18	60.33	6.35	8.74	0.8
1 1/2	...	...	...	...	...	...	19	65.07	6.35	8.74	0.8
...	1 1/2	...	1 1/2	...	1 1/2	...	20	68.27	6.35	8.74	0.8
...	...	...	...	...	...	1 1/4	21	72.23	7.92	11.91	0.8
2	...	...	...	...	...	...	22	82.55	6.35	8.74	0.8
...	2	...	2	...	...	1 1/2	23	82.55	7.92	11.91	0.8
...	...	...	...	...	2	...	24	95.25	7.92	11.91	0.8
2 1/2	...	...	...	...	...	...	25	101.60	6.35	8.74	0.8
...	2 1/2	...	2 1/2	...	...	2	26	101.60	7.92	11.91	0.8
...	...	...	...	...	2 1/2	...	27	107.95	7.92	11.91	0.8
...	...	...	...	...	...	2 1/2	28	111.13	9.53	13.49	1.5
3	...	...	...	...	...	...	29	114.30	6.35	8.74	0.8
...	[Note (4)]	...	[Note (4)]	...	...	...	30	117.48	7.92	11.91	0.8
...	3 [Note (4)]	...	3 [Note (4)]	3	...	...	31	123.83	7.92	11.91	0.8
...	...	...	...	...	...	3	32	127.00	9.53	13.49	1.5
3 1/2	...	...	...	...	...	...	33	131.78	6.35	8.74	0.8
...	3 1/2	...	3 1/2	...	...	...	34	131.78	7.92	11.91	0.8
...	...	...	...	...	3	...	35	136.53	7.92	11.91	0.8
4	...	...	...	...	...	...	36	149.23	6.35	8.74	0.8
...	4	4	4	4	...	...	37	149.23	7.92	11.91	0.8
...	4	38	157.18	11.13	16.66	1.5
...	4	...	39	161.93	7.92	11.91	0.8
5	40	171.45	6.35	8.74	0.8
...	5	5	5	5	41	180.98	7.92	11.91	0.8

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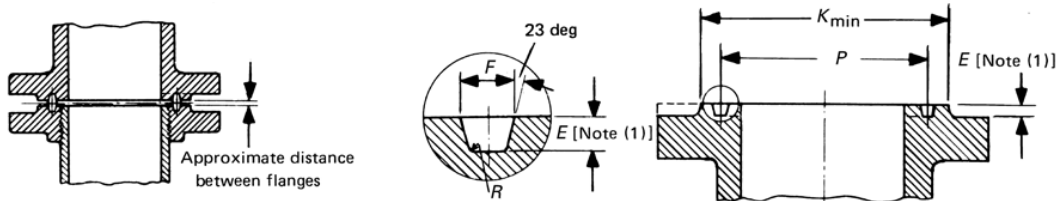
Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes) (Cont'd)



Diameter of Raised Portion, <i>K</i>					Approximate Distance Between Flanges							
Class	Class 300	Class 600	Class 900	Class 1500	Class 2500	Class 150	Class 300	Class 400	Class 600	Class 900	Class 1500	Class 2500
...	51.0	...	...	...	...	...	3	...	3	...	...	...
...	...	...	60.5	...	...	...	...	...	...	...	4	...
...	63.5	...	...	65.0	...	...	4	...	4	...	...	4
...	...	...	...	66.5	...	...	...	...	...	...	4	...
63.5	...	...	...	...	...	4	...	...	...	...	...	...
...	70.0	...	71.5	73.0	...	4	...	...	4	...	4	4
73.0	...	...	...	...	4	...	...	...	...	...	...	...
...	79.5	...	81.0	82.5	...	4	...	...	4	...	4	4
82.5	...	...	...	...	4	...	...	...	...	...	...	...
...	90.5	...	92.0	...	...	4	...	...	4	...	4	...
...	...	...	...	102	...	...	...	...	...	...	...	3
102	...	...	...	...	4	...	...	...	...	...	...	...
...	108	...	...	114	...	6	...	...	5	...	...	3
...	...	...	124	...	...	...	...	...	...	...	3	...
121	...	...	...	...	4	...	...	...	...	...	...	...
...	127	...	...	133	...	6	...	...	5	...	...	3
...	...	...	137	...	...	...	...	...	...	...	3	...
...	...	...	...	149	...	...	...	...	...	...	...	3
133	...	...	...	...	4	...	...	...	...	...	...	...
...
...	146	156	6	5	4
...	168	3
154	4
...	159	6	5
...	168	3	...
171	4
...	175	181	6	6	5	4
...	203	4
...	194	3	...
194	4
...	210	216	6	6	5	4

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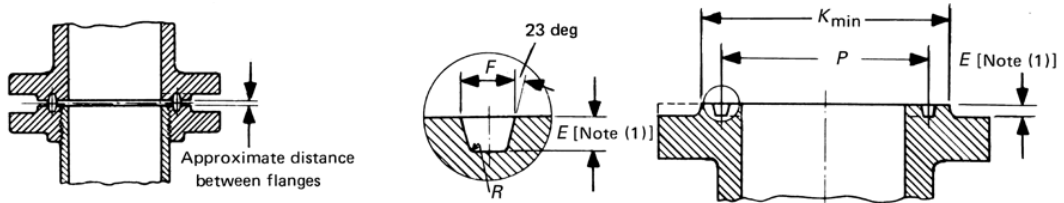
Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes) (Cont'd)



Nominal Size							Groove Dimensions				Radius at Bottom, R
Class 150 NPS	Class 300 NPS	Class 400 NPS [Note (2)]	Class 600 NPS	Class 900 NPS [Note (3)]	Class 1500 NPS	Class 2500 NPS	Groove Number	Pitch Diameter, P	Depth, E [Note (1)]	Width, F	
...	...	...	...	...	...	5	42	190.50	12.70	19.84	1.5
6	...	...	...	...	...	...	43	193.68	6.35	8.74	0.8
...	...	...	...	...	...	5	44	193.68	7.92	11.91	0.8
...	6	6	6	6	...	...	45	211.12	7.92	11.91	0.8
...	...	...	...	...	6	...	46	211.14	9.53	13.49	1.5
...	...	...	...	...	...	6	47	228.60	12.70	19.84	1.5
8	...	...	...	...	...	...	48	247.65	6.35	8.74	0.8
...	8	8	8	8	...	...	49	269.88	7.92	11.91	0.8
...	...	...	...	...	8	...	50	269.88	11.13	16.66	1.5
...	...	...	...	...	...	8	51	279.40	14.27	23.01	1.5
10	...	...	...	...	...	...	52	304.80	6.35	8.74	0.8
...	10	10	10	10	...	...	53	323.85	7.92	11.91	0.8
...	...	...	...	...	10	...	54	323.85	11.13	16.66	1.5
...	...	...	...	...	...	10	55	342.90	17.48	30.18	2.4
12	...	...	...	...	...	...	56	381.00	6.35	8.74	0.8
...	12	12	12	12	...	...	57	381.00	7.92	11.91	0.8
...	...	...	...	...	12	...	58	381.00	14.27	23.01	1.5
14	...	...	...	...	...	...	59	396.88	6.35	8.74	0.8
...	...	...	...	...	...	12	60	406.40	17.48	33.32	2.4
...	14	14	14	...	...	...	61	419.10	7.92	11.91	0.8
...	...	...	...	14	...	...	62	419.10	11.13	16.66	1.5
...	...	...	...	...	14	...	63	419.10	15.88	26.97	2.4
16	...	...	...	...	...	...	64	454.03	6.35	8.74	0.8
...	16	16	16	...	...	...	65	469.90	7.92	11.91	0.8
...	...	...	...	16	...	...	66	469.90	11.13	16.66	1.5
...	...	...	...	...	16	...	67	469.90	17.48	30.18	2.4
18	...	...	...	...	...	...	68	517.53	6.35	8.74	0.8
...	18	18	18	...	...	...	69	533.40	7.92	11.91	0.8
...	18	70	533.40	12.70	19.84	1.5
...	18	...	71	533.40	17.48	30.18	2.4
20	72	558.80	6.35	8.74	0.8
...	20	20	20	73	584.20	9.53	13.49	1.5

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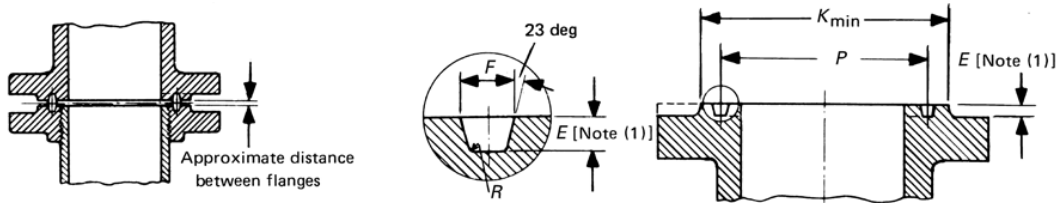
Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes) (Cont'd)



Diameter of Raised Portion, K					Approximate Distance Between Flanges							
Class	Class 300	Class 600	Class 900	Class 1500	Class 2500	Class 150	Class 300	Class 400	Class 600	Class 900	Class 1500	Class 2500
...	...	...	...	241	...	...	...	...	...	...	...	4
219	...	...	...	...	...	4	...	...	...	...	...	...
...	...	...	229	...	...	...	...	...	...	...	3	...
...	241	241	...	...	...	...	6	6	5	4	...	...
...	...	...	248	...	...	...	...	...	...	...	3	...
...	...	...	...	279	...	...	...	...	...	...	...	4
273	...	...	...	...	...	4	...	...	...	...	...	...
...	302	308	...	...	...	...	6	6	5	4	...	...
...	...	...	318	...	...	...	...	...	...	...	4	...
...	...	...	...	340	...	...	...	...	...	...	...	5
330	...	...	...	...	...	4	...	...	...	...	...	...
...	356	362	...	...	...	...	6	6	5	4	...	...
...	...	...	371	...	...	...	...	...	...	...	4	...
...	...	...	...	425	...	...	...	...	...	...	...	6
406	...	...	...	...	...	4	...	...	...	...	...	...
...	413	419	...	...	...	...	6	6	5	4	...	...
...	...	...	438	...	...	...	...	...	...	...	5	...
425	...	...	...	...	...	3	...	...	...	...	...	...
...	...	...	...	495	...	...	...	...	...	...	...	8
...	457	6	6	5
...	...	467	4
...	489	6	...
483	3
...	508	6	6	5
...	...	524	4
...	546	8	...
546	3
...	575	6	6	5
...	...	594	5
...	613	8	...
597	3
...	635	6	6	5

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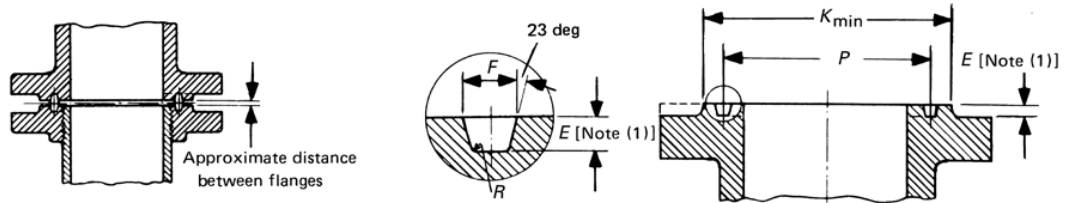
Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes) (Cont'd)



Nominal Size							Groove Dimensions				Radius at Bottom, <i>R</i>
Class 150 NPS	Class 300 NPS	Class 400 NPS [Note (2)]	Class 600 NPS	Class 900 NPS [Note (3)]	Class 1500 NPS	Class 2500 NPS	Groove Number	Pitch Diameter, <i>P</i>	Depth, <i>E</i> [Note (1)]	Width, <i>F</i>	
...	...	...	...	20	...	...	74	584.20	12.70	19.84	1.5
...	...	...	...	...	20	...	75	584.20	17.48	33.32	2.4
22	...	...	...	...	...	...	80	615.95	6.35	8.74	0.8
...	22	22	22	...	...	...	81	635.00	11.13	15.09	1.5
24	...	...	...	...	...	...	76	673.10	6.35	8.74	0.8
...	24	24	24	77	692.15	11.13	16.66	1.5
...	24	78	692.15	15.88	26.97	2.4
...	24	...	79	692.15	20.62	36.53	2.4

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Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes) (Cont'd)



13	14	15	16	17	18	19	20	21	22	23	24
Diameter of Raised Portion, <i>K</i>					Approximate Distance Between Flanges						
Class	Class 300 400 600	Class 900	Class 1500	Class 2500	Class 150	Class 300	Class 400	Class 600	Class 900	Class 1500	Class 2500
...	...	648	5
...	673	10	...
648	3
...	686	6	6	6
711	3
...	749	6	6	6
...	...	772	6
...	794	11	...

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(17) **Table 5 Dimensions of Ring Joint Facings (All Pressure Rating Classes) (Cont'd)**

GENERAL NOTES:

- (a) Dimensions are in millimeters. For dimensions in inch units, refer to [Table II-5 of Mandatory Appendix II](#).
- (b) For facing requirements for flanges and flanged fitting, see [para. 6.4.1](#) and [Figure 6](#).
- (c) For facing requirements for lapped joints, see [para. 6.4.3](#) and [Figure 6](#).
- (d) See [para. 4.2.7](#) for marking requirements.

NOTES:

- (1) The height of the raised portion is equal to the depth of the groove dimension, E , but is not subjected to the tolerances for E . Former full-face contour may be used.
- (2) Use Class 600 in sizes NPS $\frac{1}{2}$ to NPS $3\frac{1}{2}$ for Class 400.
- (3) Use Class 1500 in sizes NPS $\frac{1}{2}$ to NPS $2\frac{1}{2}$ for Class 900.
- (4) For ring joints with lapped flanges in Classes 300 and 600, ring and groove number R30 is used instead of R31.

TOLERANCES:

- E (depth) +0.40, -0.00 mm
- F (width) ± 0.20 mm
- P (pitch diameter) ± 0.013 mm
- R (radius at bottom)
 - $R \leq 2 + 0.8, -0.00$ mm
 - $R > 2 \pm 0.8$ mm
- 23 deg (angle) $\pm \frac{1}{2}$ deg