

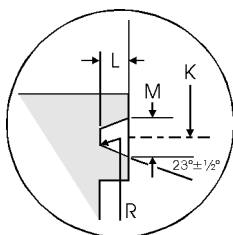
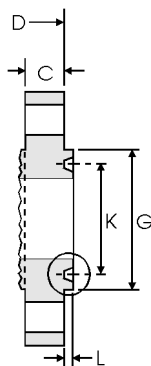
British Standard BS 3293 : 1960 - Carbon Steel Pipe Flanges (over 24 inches nominal size) for the Petroleum Industry, covers Class 150 lb to 600 lb weld neck and slip on flanges.

Dimensions and Tolerances

Tolerances on flange dimensions (BS 3293 : 1960)

Dimension	Tolerance		
	in	mm	
Weld Neck and Slip On Flanges (pages 8-56 to 8-59)	G (raised face diameter)	$\pm 1/64$	± 0.40
	C (flange thickness)	$+3/16, -0$	$+4.76, -0$
	D (overall length)	$\pm 1/8$	± 3.18
	E (outside diameter at welding end of weld neck hub)	$+5/32, -1/32$	$+3.97, -0.79$
	B (inside diameter of weld neck flange)	$+1/8, -1/16$	$+3.18, -1.59$
Ring Joint Facing on Weld Neck and Slip On Flanges (see below)	B (inside diameter of slip on flange)	$+1/16, -0$	$+1.59, -0$
	L (depth of groove)	$+1/64, -0$	$+0.40, -0$
	M (width of groove)	± 0.008	± 0.20
	K (pitch diameter of groove)	± 0.005	± 0.13

Ring Joint Facings - BS 3293



- Note
- Values for minimum flange thickness, C, and overall length, D, are detailed in the flange tables.
 - For ring joint tolerances see above.
 - R = 1/16 in (0.40 mm) max, corner radius at bottom of groove.

Ring joint facing dimensions - BS 3293

Class (lb)				Groove/Ring Number	Groove				Weight		
150	300	400	600		G	K	L	M	kg/piece		
Nominal Pipe Size (NPS)					Face Diameter min	Pitch Diameter	Depth	Width	Class 300 lb	Class 400 lb	Class 600 lb
				in mm	in mm	in mm	in mm	WNF Slip on	WNF Slip on	WNF Slip on	
	26	26	26	R93	31 ⁷ / ₈ 809.6	29 ¹ / ₂ 749.3	1 ¹ / ₂ 12.7	25 ⁵ / ₃₂ 19.8	298 270	349 304	446 417
	28	28	28	R94	33 ⁷ / ₈ 860.4	31 ¹ / ₂ 800.1	1 ¹ / ₂ 12.7	25 ⁵ / ₃₂ 19.8	360 333	409 364	518 482
	30	30	30	R95	36 ¹ / ₈ 917.6	33 ³ / ₄ 857.2	1 ¹ / ₂ 12.7	25 ⁵ / ₃₂ 19.8	412 376	465 419	570 537
	32	32	32	R96	38 ³ / ₄ 984.2	36 914.4	9 ⁹ / ₁₆ 14.3	29 ⁵ / ₃₂ 23.0	465 425	539 482	697 622
	34	34	34	R97	40 ³ / ₄ 1035.0	38 965.2	9 ⁹ / ₁₆ 14.3	29 ⁵ / ₃₂ 23.0	536 492	608 540	735 670
	36	36	36	R98	43 1092.2	40 ¹ / ₄ 1022.3	9 ⁹ / ₁₆ 14.3	29 ⁵ / ₃₂ 23.0	595 548	689 621	800 764

- Note
- Weights are based on manufacturer's data and are approximate.