

# MAXIMUM BORE OF ASME B16.5 FLANGES

## FOR USE WITH STYLE CG & CGI SPIRAL WOUND GASKETS

This table shows the maximum bore of flanges for which the spiral-wound gasket dimensions shown are recommended considering the tolerances involved, possible eccentric installation, and the possibility that the gasket may extend into the assembled flange bore.

TABLE  
5

FLANGE SIZE (NPS)	PRESSURE CLASS							
	75	150	300	400	600	900	1500*	2500*
1/2	No flanges	WN flange only <sup>b</sup>	No flanges Use Class 600	WN flange only <sup>b</sup>	No flanges Use Class 1500	WN flange only <sup>b</sup>	WN flange only <sup>b</sup>	WN flange only <sup>b</sup>
3/4								
1								
1 1/4		SO flange <sup>c</sup> WN flange <sup>b</sup>		SO flange <sup>c</sup> WN flange, any bore				
1 1/2								
2		SO flange <sup>c</sup> WN flange, any bore <sup>b</sup>		SO flange <sup>c</sup> WN flange, any bore				
2 1/2								
3		SO flange WN flange, any bore		SO flange <sup>c</sup> WN flange, any bore	WN flange with SW bore (includes nozzle <sup>d</sup> but excludes SO flange)			
4								
6				WN flange with Schedule 10S bore described in ASME B36.19M (includes nozzle <sup>d</sup> but excludes SO flange)				
8								
10								
12								
14		WN Flange with Schedule 80 bore (excludes nozzle and SO flange)		No flanges				
16								
18								
20								
24	WN flange with Schedule 10S bore described in ASME B36.19M (excludes nozzle <sup>d</sup> and SO flange) <sup>e</sup>	No flanges						
24								

Note: SO = slip on and threaded; WN = welding neck; SW = standard wall.

<sup>a</sup>Inner rings are required for Class 900 gaskets, NPS 24; Class 1500 gaskets, NPS 12 through NPS 24; and Class 2500 gaskets; NPS 4 through NPS 12. These inner rings may extend into the pipe bore a maximum of 0.06 inch (1.5 millimeters) under the worst combination of maximum bore, eccentric installation, and additive tolerances.

<sup>b</sup>In these sizes the gasket is suitable for welding-neck flange with a standard-wall bore, if the gasket and the flanges are assembled concentrically. This also applies to nozzle. It is the user's responsibility to determine if the gasket is satisfactory for a flange of any larger bore.

<sup>c</sup>Gaskets in these sizes are suitable for slip-on flanges only if the gaskets and flanges are assembled concentrically.

<sup>d</sup>A nozzle is a long welding neck; the bore equals the flange NPS.

<sup>e</sup>An NPS 24 gasket is suitable for nozzles.

\*Spiral wound gasket dimensions for use on screwed or slip-on flanges – see Table 4.

THE ANSWER IS ALWAYS

*Flexitallic*

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