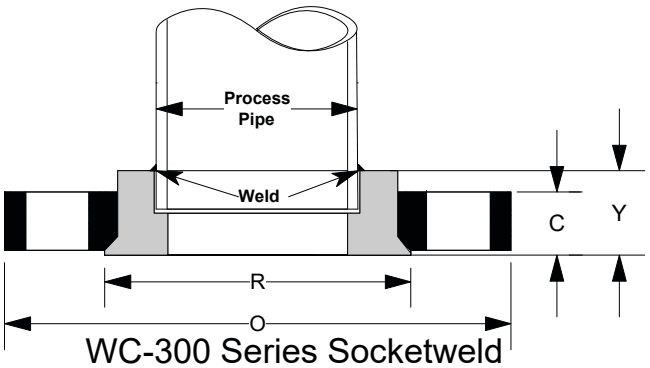
American Insert Flange

CLASS 300#

Standard Flange Thickness

Single • Socket-Weld Conventional (WC)

SERIES# WC-300 (CONVENTIONAL)



WC-300 Series Socketweld

Part Number *see note 6.	Nominal Pipe Size	O (Outside Diameter)	R (Raised Face)	B (Inside Diameter)	C Flange Thickness	Y (Overall Length)	# of Holes - Diameter	Bolt Circle Dia.	Estimated Weight (in lbs.)
WC-300/.5	**1/2"**	3.75	1.38	0.88	0.56	0.88	4-0.63	2.63	1.00
WC-300/.75	**3/4"**	4.63	1.69	1.09	0.63	1.00	4-0.75	3.25	1.50
WC-300/1	**1"**	4.88	2.00	1.36	0.69	1.06	4-0.75	3.50	4.00
WC-300/1.25	**1-1/4"**	5.25	2.50	1.70	0.75	1.06	4-0.75	3.88	6.00
WC-300/1.5	**1-1/2"**	6.13	2.88	1.95	0.81	1.19	4-0.88	4.50	7.00
WC-300/2	**2"**	6.50	3.63	2.44	0.88	1.31	8-0.75	5.00	13.00
WC-300/2.5	**2-1/2"**	7.50	4.13	2.94	1.00	1.50	8-0.88	5.88	14.00
WC-300/3	**3"**	8.25	5.00	3.57	1.13	1.69	8-0.88	6.63	16.00

Socket Weld insert flanges are generally only stocked up to 3" in the 300# Class, but custom larger sizes are available per special request. Please specify the pipe schedule you will be using with this flange.

1. All dimensions in inches. **The C and Y dimensions include the 1/16" raised face.**
2. Tolerances are standard to ANSI B 16.5 dimensional tolerances.
3. Bolting is to SA-193 B7 and the gasket is spiral wound.
4. These flanges are made to **standard ASME flange thicknesses**. Although the conventional series (standard flange thicknesses) have been used the longest in the PVF industry, not all pressure temperature ratings will conform with ASME B16.5 due to an insert flange being a two-piece flange. (ASME B16.5 is written for one-piece flanges) Please see our ASME Series for engineered thicknesses that meet and conform to all pressure temperature ratings for ASME Code.
5. Sizes not shown are available upon request.
6. Complete part number would have a / then material of the insert, plus an added letter to denote the pipe schedule (sch. 40=G; sch 10=C; more schedules available upon request.) (ex. **WC-300/2/316L-G** this would be a 2" socket-weld insert flange with a 316L insert and carbon steel flange for schedule 40 pipe.
7. These dimensions are based on using stainless steel for the insert and carbon steel for the flange. Any changes in these types of material may result in an increase to the dimension of the flange thickness.
8. An insert and flange is sold together as one unit.

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