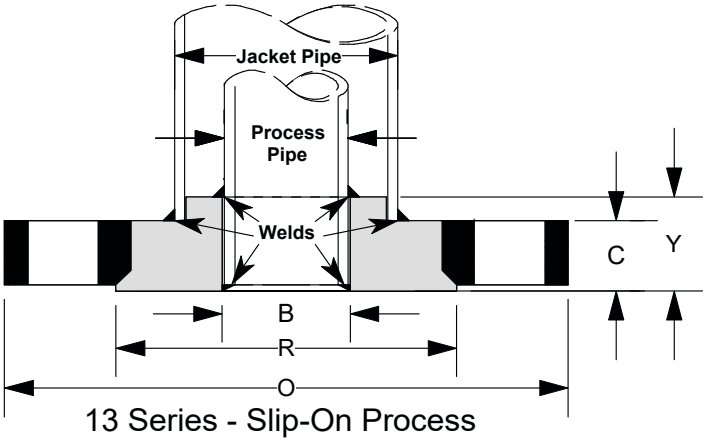
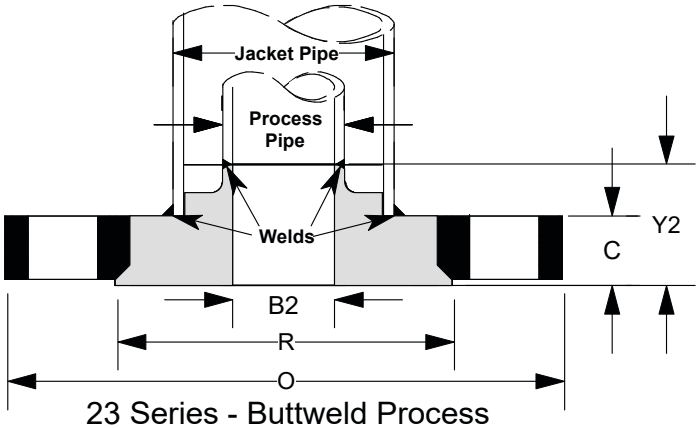
American Insert Flange

CLASS 300#

Standard Flange Thickness
Jacketed Pipe • Oversize (Reducing)
13 & 23 SERIES (CONVENTIONAL)



13 Series - Slip-On Process



23 Series - Buttweld Process

Part Number (*1.)		Sizes (Nominal)			General Dimensions			Inside Diameters		Lengths		Flange Drilling		Weight
Slip-On	Buttweld	Flange Size	Core Pipe	Jacket Pipe	Outside Diameter O	Flange Thickness C	Raised Face R	Slip-On Bore B	Buttweld Bore B2	Slip-On Length Y	Buttweld Length Y2	# of Holes - Diameter	Bolt Circle Dia.	Estimated in lbs.
13A	23A	1”	1/2”	1”	4.88	0.69	2.00	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	0.94	1.44	4 - 0.75	3.50	3.5
13C	23C	1-1/2”	3/4”	1-1/2”	6.13	0.81	3.00	1.09		1.06	1.56	4 - 0.88	4.50	5.5
13E	23E	2”	1”	2”	6.50	0.88	3.63	1.36		1.12	1.62	8 - 0.75	5.00	8.0
13F	23F	2-1/2”	1-1/2”	2-1/2”	7.50	1.00	4.25	1.95		1.25	1.75	8 - 0.88	5.88	10.5
13H	23H	3”	2”	3”	8.25	1.13	5.00	2.44		1.38	1.88	8 - 0.88	6.63	14.0
13K	23K	4”	3”	4”	10.00	1.25	6.19	3.57		1.50	2.00	8 - 0.88	7.88	22.0
13M	23M	6”	4”	6”	12.50	1.44	8.50	4.57		1.69	2.19	12 - 0.88	10.63	41.0
13N	23N	8”	6”	8”	15.00	1.62	10.63	6.72		2.00	2.75	12 - 1.00	13.00	63.0
13P	23P	10”	8”	10”	17.50	1.88	12.75	8.72		2.25	3.00	16 - 1.13	15.25	90.0
13R	23R	12”	10”	12”	20.50	2.00	15.00	10.88		2.38	3.12	16 - 1.25	17.75	129.0
13S	23S	14”	12”	14”	23.00	2.13	16.25	12.88		2.63	3.63	20 - 1.25	20.25	167.0
13V	23V	16”	14”	16”	25.50	2.25	18.50	14.14		2.75	3.75	20 - 1.38	22.50	217.5
13W	23W	18”	16”	18”	28.00	2.38	21.00	16.16		2.88	3.88	24 - 1.38	24.75	264.0
13Y	23Y	20”	18”	20”	30.50	2.50	23.00	18.18		3.00	4.00	24 - 1.38	27.00	325.0
13Z	23Z	24”	20”	24”	36.00	2.75	27.25	20.20		3.25	4.25	24 - 1.63	32.00	533.0

*1. These would be the first 3 digits of the part number. The rest of the part number is determined by the schedules of the core and jacket pipe, and the material of the insert and flange which all need to be specified.

*2. 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.

*3. Bolting is to SA-193 B7 and the gasket is spiral wound.

*4. Tolerances are standard to ANSI B 16.5 dimensional tolerances.

*5. Sizes not shown are available upon request.

*6. All dimensions are in inches. **The C dimension and the Lengths include the 1/16” raised face.**

*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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1603 Jessup Street, Suite 6, Wilmington, DE 19802 • Email: sales@AmericanInsertFlange.com
Web Site: www.AmericanInsertFlange.com