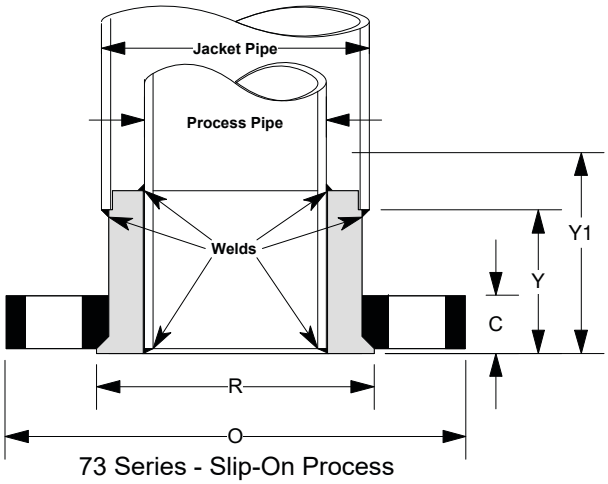
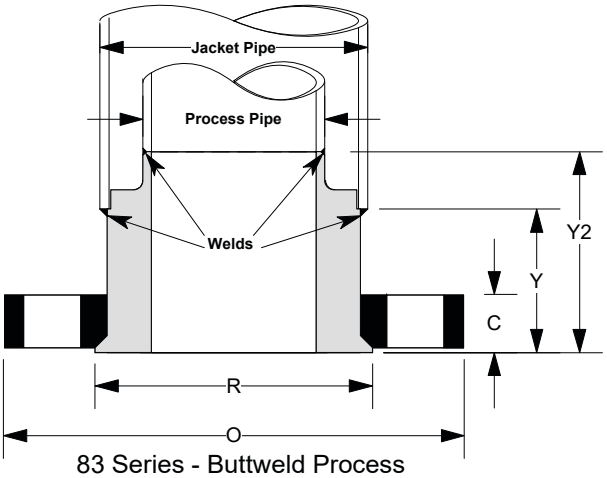
American Insert Flange

CLASS 300#

ANSI B16.5 Conforming for Jacketed Pipe
Line-Size (Non-Reducing)
73 & 83 SERIES (ASME)



73 Series - Slip-On Process



83 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 B_2	Face to Hub Y	Slip-On Length Y_1	Buttweld Length Y_2	# of Holes - Diameter	Bolt Circle Dia.	Estimated in lbs.
73A	83A	1/2"	1/2"	1"	3.75	0.75	1.38	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	1.25	1.50	2.00	4 - 0.63	2.63	1.5
73C	83C	3/4"	3/4"	1-1/2"	4.63	0.81	2.00	1.09		1.94	2.19	2.69	4 - 0.75	3.25	5.0
73D	83D	1"	1"	1-1/2"	4.88	0.94	2.00	1.36		1.44	1.69	2.19	4 - 0.75	3.50	5.0
73E	83E	1"	1"	2"	4.88	0.81	2.38	1.36		1.94	2.19	2.69	4 - 0.75	3.50	5.0
73F	83F	1-1/2"	1-1/2"	2-1/2"	6.13	1.00	3.00	1.95		2.25	2.50	3.00	4 - 0.88	4.50	8.5
73H	83H	2"	2"	3"	6.50	1.13	3.63	2.44		2.25	2.50	3.00	8 - 0.75	5.00	10.5
73K	83K	3"	3"	4"	8.25	1.38	5.00	3.57		2.63	2.88	3.38	8 - 0.88	6.63	18.0
73M	83M	4"	4"	6"-sch 10	10.00	1.31	6.63	4.57		2.56	2.81	3.31	8 - 0.88	7.88	28.0
73M	83M	4"	4"	6"-sch 40	10.00	1.31	6.31	4.57		2.56	2.81	3.31	8 - 0.88	7.88	28.0
73N	83N	6"	6"	8"-sch 10	12.50	1.75	8.63	6.72		2.25	2.63	3.37	12 - 0.88	10.63	47.5
73N	83N	6"	6"	8"-sch 40	12.50	1.81	8.50	6.72		2.31	2.69	3.44	12 - 0.88	10.63	47.5
73P	83P	8"	8"	10"-sch 10	15.00	2.19	10.75	8.72		2.69	3.06	3.81	12 - 1.00	13.00	76.0
73P	83P	8"	8"	10"-sch 40	15.00	2.13	10.63	8.72		2.63	3.00	3.75	12 - 1.00	13.00	76.0
73R	83R	10"	10"	12"	17.50	2.56	12.75	10.88		3.06	3.44	4.19	16 - 1.13	15.25	114.0
73S	83S	12"	12"	14"	20.50	2.88	15.00	12.88		2.88	3.38	4.13	16 - 1.25	17.75	163.0
73V	83V	14"	14"	16"	23.00	3.50	16.25	14.14		4.00	4.50	5.25	20 - 1.25	20.25	259.5
73W	83W	16"	16"	18"	25.50	3.81	18.50	16.16		4.31	4.81	5.56	20 - 1.38	22.50	345.0
73Y	83Y	18"	18"	20"	28.00	4.06	21.00	18.18		4.56	5.07	5.81	24 - 1.38	24.75	436.0

*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. Bolting is to SA-193 B7 and the gasket is spiral wound.
*3. These flanges are engineered to conform to all flange pressure temperature ratings for the associated weight class. Due to the fact that an insert flange is a two-piece flange, it is made to a slightly thicker dimension than standard flanges.
*4. Tolerances and ratings are standard and conforming to ANSI B 16.5
*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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