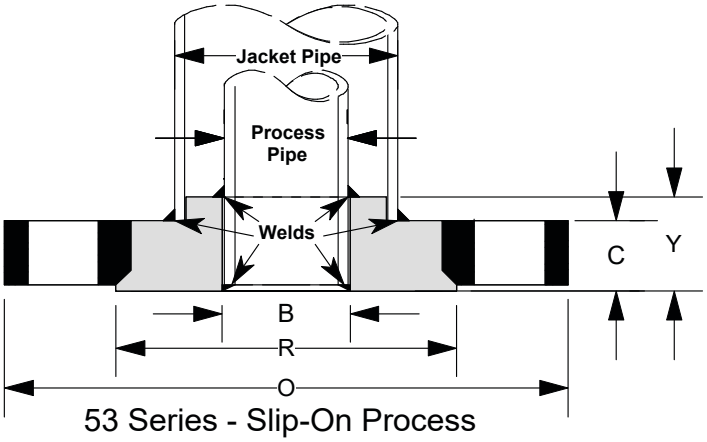
American Insert Flange

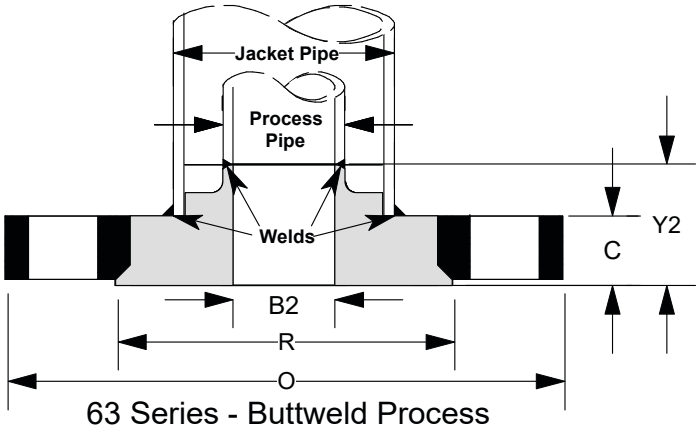
CLASS 300#

ANSI B16.5 Conforming for Jacketed Pipe Oversize (Reducing)

53 & 63 SERIES (ASME)



53 Series - Slip-On Process



63 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	Slip-On Length Y	Buttweld Length Y_2	# of Holes - Diameter	Bolt Circle Dia.	Estimated in lbs.
53A	63A	1”	1/2”	1”	4.88	0.94	2.00	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	1.19	1.69	4 - 0.75	3.50	4.5
53C	63C	1-1/2”	3/4”	1-1/2”	6.13	1.00	3.00	1.09		1.25	1.75	4 - 0.88	4.50	7.5
53E	63E	2”	1”	2”	6.50	1.13	3.63	1.36		1.38	1.88	8 - 0.75	5.00	9.0
53F	63F	2-1/2”	1-1/2”	2-1/2”	7.50	1.31	4.25	1.95		1.56	2.06	8 - 0.88	5.88	13.5
53H	63H	3”	2”	3”	8.25	1.38	5.00	2.44		1.63	2.13	8 - 0.88	6.63	16.0
53K	63K	4”	3”	4”	10.00	1.38	6.19	3.57		1.63	2.13	8 - 0.88	7.88	23.5
53M	63M	6”	4”	6”	12.50	1.81	8.50	4.57		2.06	2.56	12 - 0.88	10.63	51.5
53N	63N	8”	6”	8”	15.00	2.13	10.63	6.72		2.50	3.25	12 - 1.00	13.00	80.0
53P	63P	10”	8”	10”	17.50	2.56	12.75	8.72		2.94	3.69	16 - 1.13	15.25	124.0
53R	63R	12”	10”	12”	20.50	2.88	15.00	10.88		3.25	4.00	16 - 1.25	17.75	185.0
53S	63S	14”	12”	14”	23.00	3.50	16.25	12.88		4.00	5.00	20 - 1.25	20.25	270.0
53V	63V	16”	14”	16”	25.50	3.81	18.50	14.14		4.31	5.31	20 - 1.38	22.50	375.0
53W	63W	18”	16”	18”	28.00	4.06	21.00	16.16		4.56	5.56	24 - 1.38	24.75	466.0
53Y	63Y	20”	18”	20”	30.50	4.19	23.00	18.18		4.69	5.69	24 - 1.38	27.00	566.0
53Z	63Z	24”	20”	24”	36.00	5.06	27.25	20.20		5.56	6.56	24 - 1.63	32.00	969.0

*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 for some sizes.
*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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