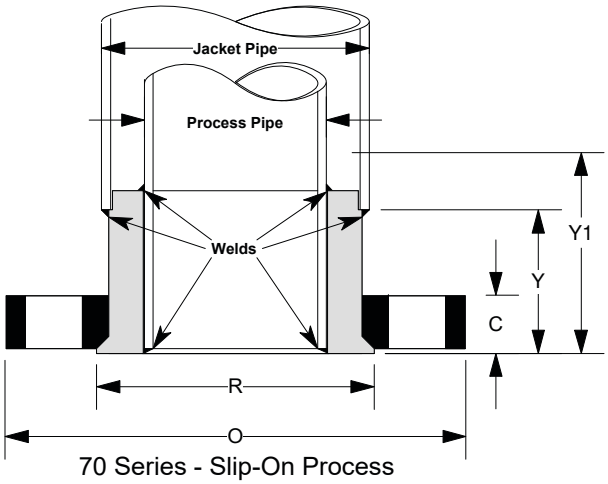
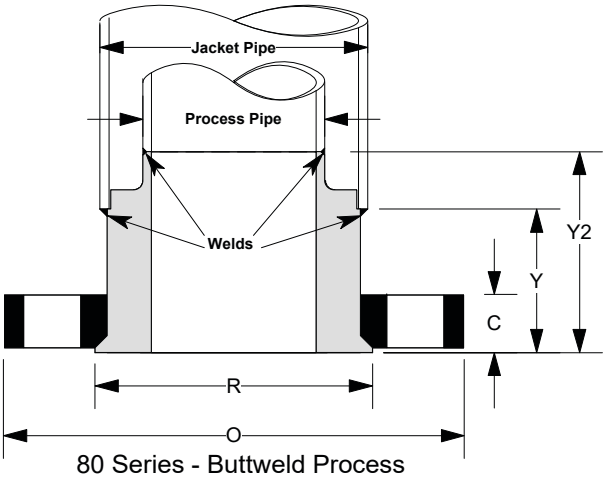
American Insert Flange

CLASS 150#

ANSI B16.5 Conforming for Jacketed Pipe
Line-Size (Non-Reducing)
70 & 80 SERIES (ASME)



70 Series - Slip-On Process



80 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.
70A	80A	1/2"	1/2"	1"	3.50	0.69	1.38	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	1.69	1.94	2.31	4 - 0.63	2.38	1.5
70C	80C	3/4"	3/4"	1-1/2"	3.88	0.63	2.00	1.09		1.63	1.88	2.38	4 - 0.63	2.75	2.5
70D	80D	1"	1"	1-1/2"	4.25	0.69	2.00	1.36		1.69	1.94	2.44	4 - 0.63	3.13	3
70E	80E	1"	1"	2"	4.25	0.63	2.38	1.36		1.63	1.88	2.38	4 - 0.63	3.13	3
70F	80F	1-1/2"	1-1/2"	2-1/2"	5.00	0.69	3.00	1.95		1.69	1.94	2.44	4 - 0.63	3.88	4.5
70H	80H	2"	2"	3"	6.00	0.75	3.63	2.44		1.88	2.13	2.63	4 - 0.75	4.75	7
70K	80K	3"	3"	4"	7.50	0.94	5.00	3.57		2.06	2.31	2.81	4 - 0.75	6.00	11
70M	80M	4"	4"	6"-sch 10	9.00	1.00	6.63	4.57		2.25	2.50	3.00	8 - 0.75	7.50	23
70M	80M	4"	4"	6"-sch 40	9.00	1.00	6.31	4.57		2.13	2.38	2.88	8 - 0.75	7.50	23
70N	80N	6"	6"	8"-sch 10	11.00	1.13	8.63	6.72		2.44	2.81	3.56	8 - 0.88	9.50	34
70N	80N	6"	6"	8"-sch 40	11.00	1.19	8.50	6.72		2.44	2.81	3.44	8 - 0.88	9.50	34
70P	80P	8"	8"	10"-sch 10	13.50	1.38	10.75	8.72		2.75	3.13	3.88	8 - 0.88	11.75	52
70P	80P	8"	8"	10"-sch 40	13.50	1.19	10.63	8.72		2.44	2.81	3.56	8 - 0.88	11.75	52
70R	80R	10"	10"	12"	16.00	1.69	12.75	10.88		3.06	3.44	4.19	12 - 1.00	14.25	80
70S	80S	12"	12"	14"	19.00	1.88	15.00	12.88		1.88	2.38	3.13	12 - 1.00	17.00	98
70V	80V	14"	14"	16"	21.00	2.13	16.25	14.14		2.63	3.13	3.88	12 - 1.13	18.75	145
70W	80W	16"	16"	18"	23.50	2.44	18.50	16.16		2.94	3.44	4.19	16 - 1.13	21.25	208
70Y	80Y	18"	18"	20"	25.00	2.50	21.00	18.18		3.00	3.50	4.25	16 - 1.25	22.75	220

*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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