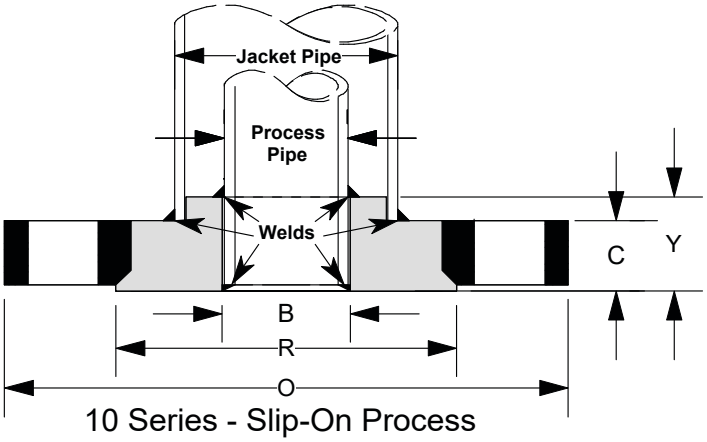
American Insert Flange

CLASS 150#

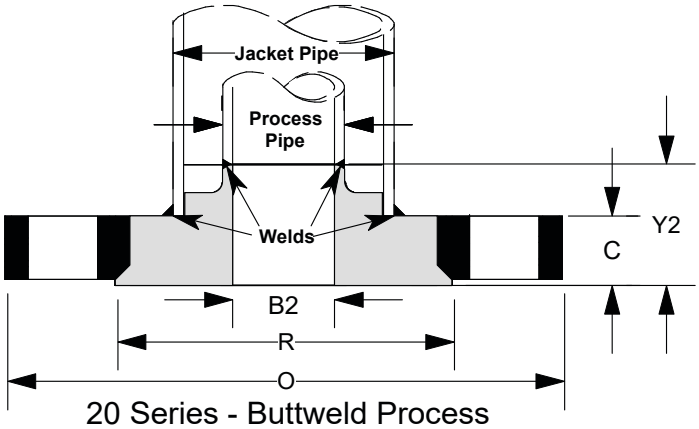
Standard Flange Thickness

Jacketed Pipe • Oversize (Reducing)

10 & 20 SERIES (CONVENTIONAL)



10 Series - Slip-On Process



20 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.
10A	20A	1”	1/2”	1”	4.25	0.56	2.00	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	0.81	1.31	4 - 0.63	3.13	1.5
10C	20C	1-1/2”	3/4”	1-1/2”	5.00	0.69	3.00	1.09		0.94	1.44	4 - 0.63	3.88	3.5
10E	20E	2”	1”	2”	6.00	0.75	3.63	1.36		1.00	1.50	4 - 0.75	4.75	6.5
10F	20F	2-1/2”	1-1/2”	2-1/2”	7.00	0.88	4.25	1.95		1.13	1.63	4 - 0.75	5.50	9.5
10H	20H	3”	2”	3”	7.50	0.94	5.00	2.44		1.19	1.69	4 - 0.75	6.00	10.0
10K	20K	4”	3”	4”	9.00	0.94	6.19	3.57		1.19	1.69	8 - 0.75	7.50	14.5
10M	20M	6”	4”	6”	11.00	1.00	8.50	4.57		1.25	1.75	8 - 0.88	9.50	23.0
10N	20N	8”	6”	8”	13.50	1.13	10.63	6.72		1.50	2.25	8 - 0.88	11.75	36.0
10P	20P	10”	8”	10”	16.00	1.19	12.75	8.72		1.56	2.31	12 - 1.00	14.25	49.0
10R	20R	12”	10”	12”	19.00	1.25	15.00	10.88		1.63	2.38	12 - 1.00	17.00	69.0
10S	20S	14”	12”	14”	21.00	1.38	16.25	12.88		1.88	2.88	12 - 1.13	18.75	87.0
10V	20V	16”	14”	16”	23.50	1.44	18.50	14.14		1.94	2.94	16 - 1.13	21.25	118.0
10W	20W	18”	16”	18”	25.00	1.56	21.00	16.16		2.06	3.06	16 - 1.25	22.75	134.0
10Y	20Y	20”	18”	20”	27.50	1.69	23.00	18.18		2.19	3.19	20 - 1.25	25.00	165.0
10Z	20Z	24”	20”	24”	32.00	1.88	27.25	20.20		2.38	3.38	20 - 1.38	29.50	273.0

*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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