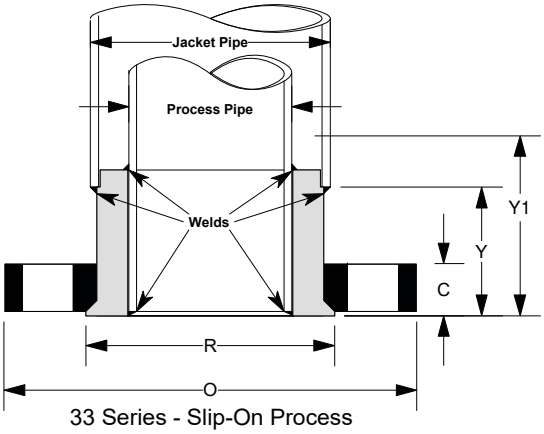
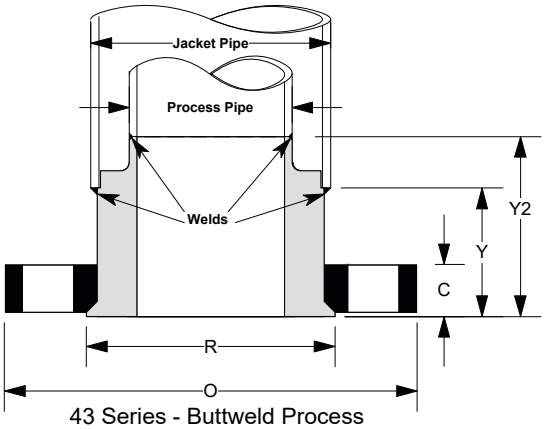
American Insert Flange

CLASS 300#

Standard Flange Thickness
Jacketed Pipe • Line-Size (Non-Reducing)
33 & 43 SERIES (CONVENTIONAL)



33 Series - Slip-On Process



43 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 Diam-eter O	Flange Thick-ness 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.	Esti-mated in lbs.
33A	43A	1/2"	1/2"	1"	3.75	0.56	1.38	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	1.06	1.31	1.81	4 - 0.63	2.38	1.50
33C	43C	3/4"	3/4"	1-1/2"	4.63	0.63	2.00	1.09		1.75	2.00	2.50	4 - 0.75	3.25	4.0
33D	43D	1"	1"	1-1/2"	4.88	0.69	2.00	1.36		1.19	1.44	1.94	4 - 0.75	3.50	4.0
33E	43E	1"	1"	2"	4.88	0.69	2.38	1.36		1.81	2.06	2.56	4 - 0.75	3.50	4.5
33F	43F	1-1/2"	1-1/2"	2-1/2"	6.13	0.81	3.00	1.95		2.06	2.31	2.81	4 - 0.88	4.50	8.5
33H	43H	2"	2"	3"	6.50	0.88	3.63	2.44		2.00	2.25	2.75	8 - 0.75	5.00	10.0
33K	43K	3"	3"	4"	8.25	1.13	5.00	3.57		2.38	2.63	3.13	8 - 0.88	6.63	19.5
33M	43M	4"	4"	6"-sch 10	10.00	1.25	6.63	4.57		2.50	2.75	3.25	8 - 0.88	7.88	28.0
33M	43M	4"	4"	6"-sch 40	10.00	1.25	6.31	4.57		2.50	2.75	3.25	8 - 0.88	7.88	28.0
33N	43N	6"	6"	8"-sch 10	12.50	1.44	8.63	6.72		1.94	2.31	3.06	12 - 0.88	10.63	39.5
33N	43N	6"	6"	8"-sch 40	12.50	1.44	8.50	6.72		1.94	2.31	3.06	12 - 0.88	10.63	39.5
33P	43P	8"	8"	10"-sch 10	15.00	1.63	10.75	8.72		2.13	2.50	3.25	12 - 1.00	13.00	57.5
33P	43P	8"	8"	10"-sch 40	15.00	1.63	10.63	8.72		2.13	2.50	3.25	12 - 1.00	13.00	57.5
33R	43R	10"	10"	12"	17.50	1.88	12.75	10.88		2.38	2.75	3.50	16 - 1.13	15.25	85.0
33S	43S	12"	12"	14"	20.50	2.00	15.00	12.88		2.00	2.50	3.25	16 - 1.25	17.75	111.0
33V	43V	14"	14"	16"	23.00	2.13	16.25	14.14		2.63	3.13	3.88	20 - 1.25	20.25	163.5
33W	43W	16"	16"	18"	25.50	2.25	18.50	16.16		2.75	3.25	4.00	20 - 1.38	22.50	200.0
33Y	43Y	18"	18"	20"	28.00	2.38	21.00	18.18		2.88	3.38	4.13	24 - 1.38	24.75	248.5

*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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