American Insert Flange

Insert Flanges for Jacketed Piping

ANSI B16.5 Conforming (ASME RATED)

p.6	***50 & 60 Series***	150#	Oversize (Reducing)
p.7	***53 & 63 Series***	300#	Oversize (Reducing)
p.8	***70 & 80 Series***	150#	Line-Size (Non-Reducing)
p.9	***73 & 83 Series***	300#	Line-Size (Non-Reducing)

Standard Flange Thickness (CONVENTIONAL)

p.10	***10 & 20 Series***	150#	Oversize (Reducing)
p.11	***13 & 23 Series***	300#	Oversize (Reducing)
p.12	***30 & 40 Series***	150#	Line-Size (Non-Reducing)
p.13	***33 & 43 Series***	300#	Line-Size (Non-Reducing)

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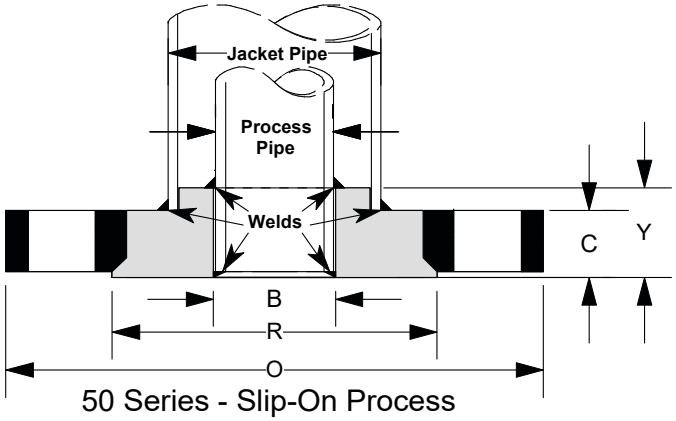
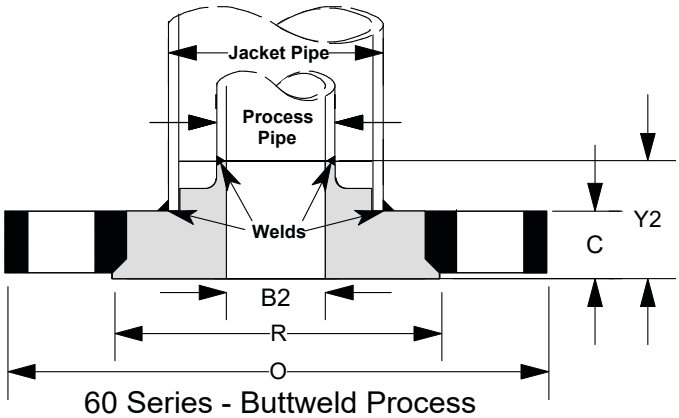
American Insert Flange

CLASS 150#

ANSI B16.5 Conforming for Jacketed Pipe
Oversize (Reducing)
50 & 60 SERIES (ASME)



50 Series - Slip-On Process



60 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.
50A	60A	1”	1/2”	1”	4.25	0.69	2.00	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	0.94	1.44	4 - 0.63	3.13	2.5
50C	60C	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	4.0
50E	60E	2”	1”	2”	6.00	0.75	3.63	1.36		1.00	1.50	4 - 0.75	4.75	6.5
50F	60F	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
50H	60H	3”	2”	3”	7.50	0.94	5.00	2.44		1.19	1.69	4 - 0.75	6.00	10.0
50K	60K	4”	3”	4”	9.00	1.06	6.19	3.57		1.31	1.81	8 - 0.75	7.50	17.5
50M	60M	6”	4”	6”	11.00	1.19	8.50	4.57		1.44	1.94	8 - 0.88	9.50	29.0
50N	60N	8”	6”	8”	13.50	1.19	10.63	6.72		1.56	2.31	8 - 0.88	11.75	45.5
50P	60P	10”	8”	10”	16.00	1.69	12.75	8.72		2.06	2.81	12 - 1.00	14.25	78.5
50R	60R	12”	10”	12”	19.00	1.88	15.00	10.88		2.25	3.00	12 - 1.00	17.00	118.0
50S	60S	14”	12”	14”	21.00	2.13	16.25	12.88		2.63	3.63	12 - 1.13	18.75	150.0
50V	60V	16”	14”	16”	23.50	2.44	18.50	14.14		2.94	3.94	16 - 1.13	21.25	224.0
50W	60W	18”	16”	18”	25.00	2.50	21.00	16.16		3.00	4.00	16 - 1.25	22.75	236.0
50Y	60Y	20”	18”	20”	27.50	2.75	23.00	18.18		3.25	4.25	20 - 1.25	25.00	302.0
50Z	60Z	24”	20”	24”	32.00	3.25	27.25	20.20		3.75	4.75	20 - 1.38	29.50	476.0

*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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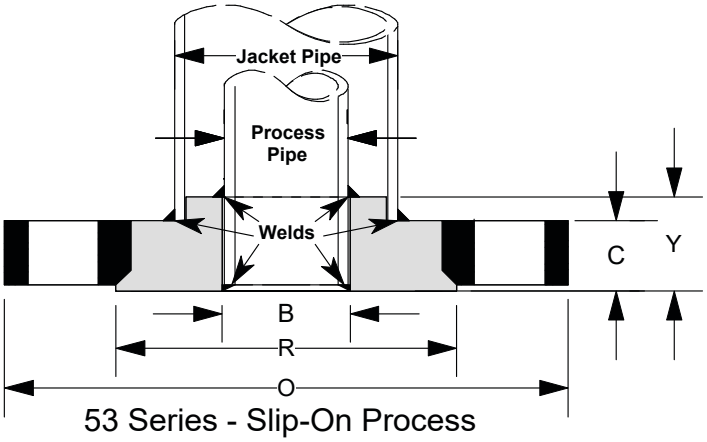
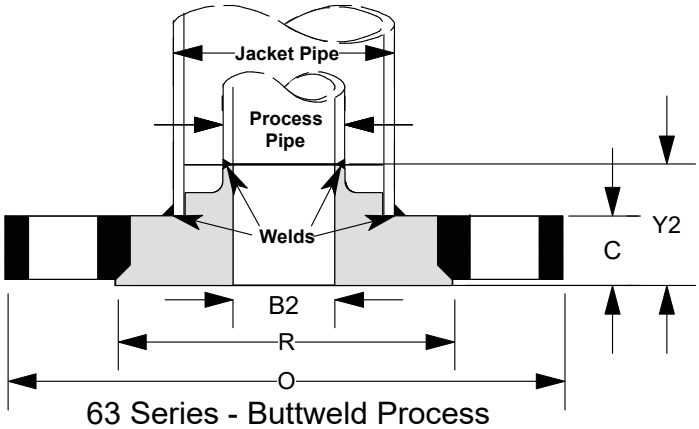
CLASS 300#

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 B2	Slip-On Length Y	Buttweld Length Y2	# 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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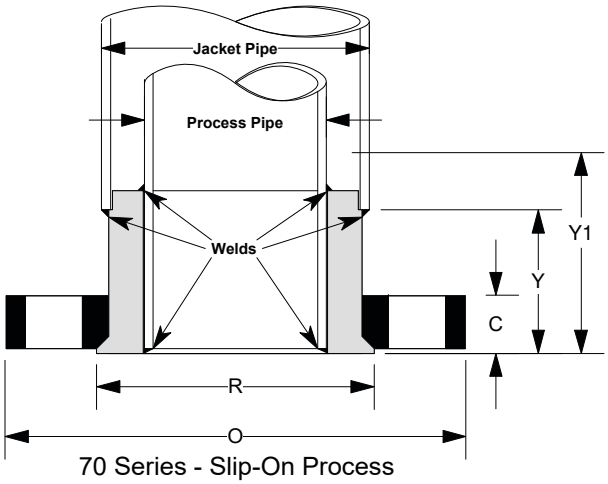
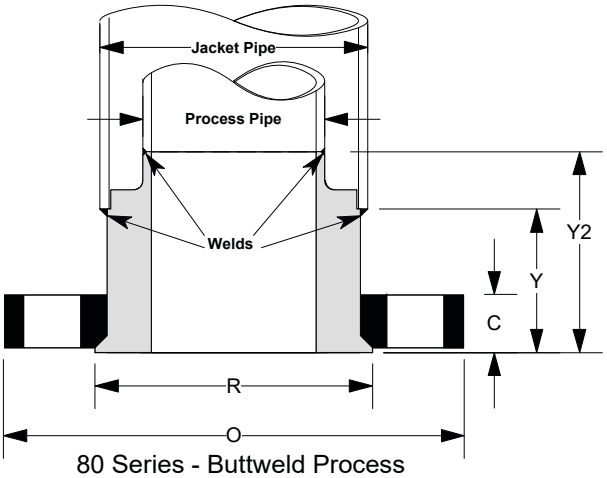
American Insert Flange

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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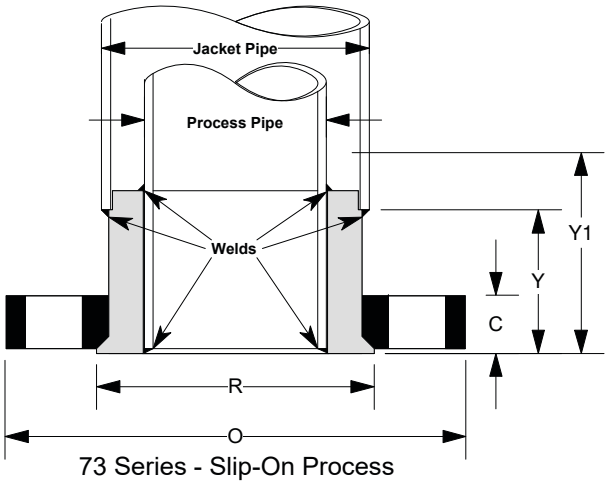
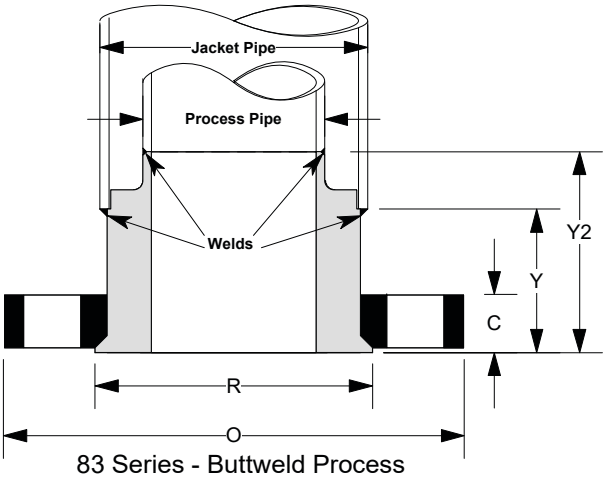
CLASS 300#

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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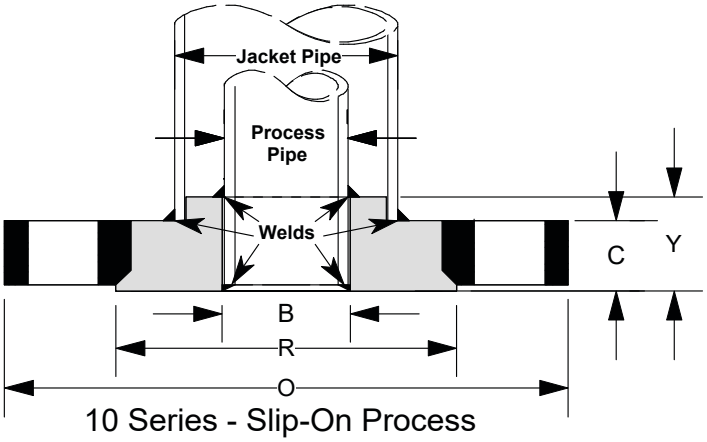
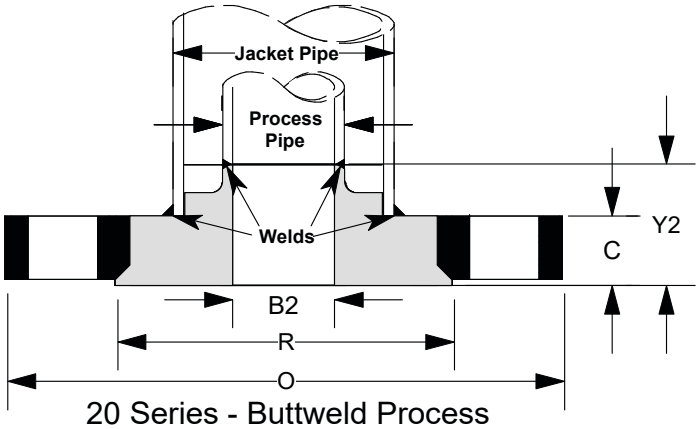
American Insert Flange

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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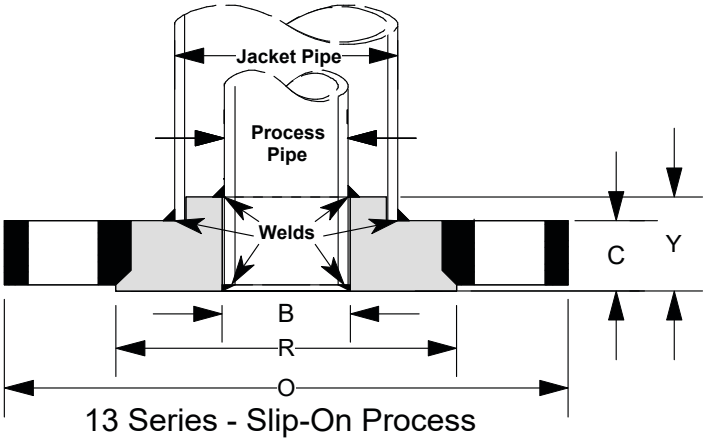
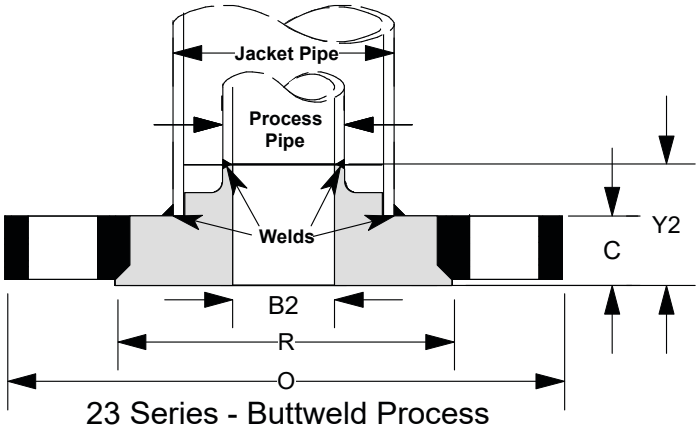
American Insert Flange

CLASS 300#

Standard Flange Thickness
Jacketed Pipe • Oversize (Reducing)
13 & 23 SERIES (CONVENTIONAL)



13 Series - Slip-On Process



23 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.
13A	23A	1”	1/2”	1”	4.88	0.69	2.00	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	0.94	1.44	4 - 0.75	3.50	3.5
13C	23C	1-1/2”	3/4”	1-1/2”	6.13	0.81	3.00	1.09		1.06	1.56	4 - 0.88	4.50	5.5
13E	23E	2”	1”	2”	6.50	0.88	3.63	1.36		1.12	1.62	8 - 0.75	5.00	8.0
13F	23F	2-1/2”	1-1/2”	2-1/2”	7.50	1.00	4.25	1.95		1.25	1.75	8 - 0.88	5.88	10.5
13H	23H	3”	2”	3”	8.25	1.13	5.00	2.44		1.38	1.88	8 - 0.88	6.63	14.0
13K	23K	4”	3”	4”	10.00	1.25	6.19	3.57		1.50	2.00	8 - 0.88	7.88	22.0
13M	23M	6”	4”	6”	12.50	1.44	8.50	4.57		1.69	2.19	12 - 0.88	10.63	41.0
13N	23N	8”	6”	8”	15.00	1.62	10.63	6.72		2.00	2.75	12 - 1.00	13.00	63.0
13P	23P	10”	8”	10”	17.50	1.88	12.75	8.72		2.25	3.00	16 - 1.13	15.25	90.0
13R	23R	12”	10”	12”	20.50	2.00	15.00	10.88		2.38	3.12	16 - 1.25	17.75	129.0
13S	23S	14”	12”	14”	23.00	2.13	16.25	12.88		2.63	3.63	20 - 1.25	20.25	167.0
13V	23V	16”	14”	16”	25.50	2.25	18.50	14.14		2.75	3.75	20 - 1.38	22.50	217.5
13W	23W	18”	16”	18”	28.00	2.38	21.00	16.16		2.88	3.88	24 - 1.38	24.75	264.0
13Y	23Y	20”	18”	20”	30.50	2.50	23.00	18.18		3.00	4.00	24 - 1.38	27.00	325.0
13Z	23Z	24”	20”	24”	36.00	2.75	27.25	20.20		3.25	4.25	24 - 1.63	32.00	533.0

*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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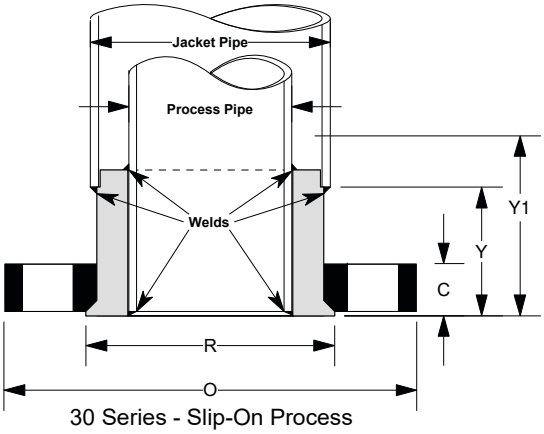
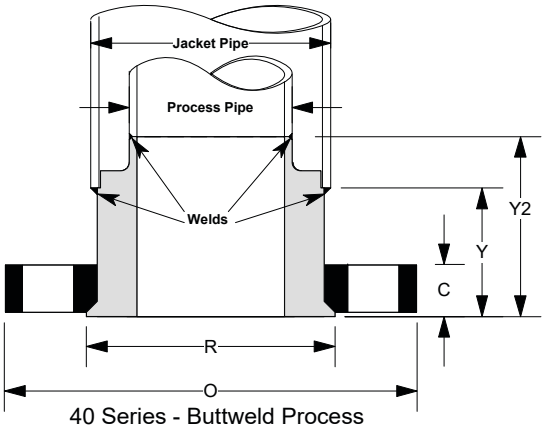
CLASS 150#

Standard Flange Thickness
Jacketed Pipe • Line-Size (Non-Reducing)
30 & 40 SERIES (CONVENTIONAL)



30 Series - Slip-On Process



40 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.
30A	40A	1/2"	1/2"	1"	3.50	0.44	1.38	0.88	This dimension is determined by the pipe schedule and its corresponding inside diameter.	1.44	1.69	2.06	4 - 0.63	2.38	1.5
30C	40C	3/4"	3/4"	1-1/2"	3.88	0.50	2.00	1.09		1.50	1.75	2.25	4 - 0.63	2.75	1.5
30D	40D	1"	1"	1-1/2"	4.25	0.56	2.00	1.36		1.56	1.81	2.31	4 - 0.63	3.13	3.0
30E	40E	1"	1"	2"	4.25	0.56	2.38	1.36		1.56	1.81	2.31	4 - 0.63	3.13	3.0
30F	40F	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	5.0
30H	40H	2"	2"	3"	6.00	0.75	3.63	2.44		1.88	2.13	2.63	4 - 0.75	4.75	7.0
30K	40K	3"	3"	4"	7.50	0.94	5.00	3.57		2.06	2.31	2.81	4 - 0.75	6.00	13.0
30M	40M	4"	4"	6"-sch 10	9.00	0.94	6.63	4.57		2.19	2.44	2.94	8 - 0.75	7.50	19.0
30M	40M	4"	4"	6"-sch 40	9.00	0.94	6.31	4.57		2.06	2.31	2.81	8 - 0.75	7.50	19.0
30N	40N	6"	6"	8"-sch 10	11.00	1.00	8.63	6.72		2.31	2.69	3.44	8 - 0.88	9.50	27.5
30N	40N	6"	6"	8"-sch 40	11.00	1.00	8.50	6.72		2.25	2.63	3.25	8 - 0.88	9.50	27.5
30P	40P	8"	8"	10"-sch 10	13.50	1.13	10.75	8.72		2.50	2.88	3.63	8 - 0.88	11.75	40.0
30P	40P	8"	8"	10"-sch 40	13.50	1.13	10.63	8.72		2.38	2.75	3.50	8 - 0.88	11.75	40.0
30R	40R	10"	10"	12"	16.00	1.19	12.75	10.88		2.56	2.94	3.69	12 - 1.00	14.25	57.5
30S	40S	12"	12"	14"	19.00	1.25	15.00	12.88		1.25	1.75	2.50	12 - 1.00	17.00	59.0
30V	40V	14"	14"	16"	21.00	1.38	16.25	14.14		1.88	2.38	3.13	12 - 1.13	18.75	93.0
30W	40W	16"	16"	18"	23.50	1.44	18.50	16.16		1.94	2.44	3.19	16 - 1.13	21.25	117.5
30Y	40Y	18"	18"	20"	25.00	1.56	21.00	18.18		2.06	2.56	3.31	16 - 1.25	22.75	127.0

*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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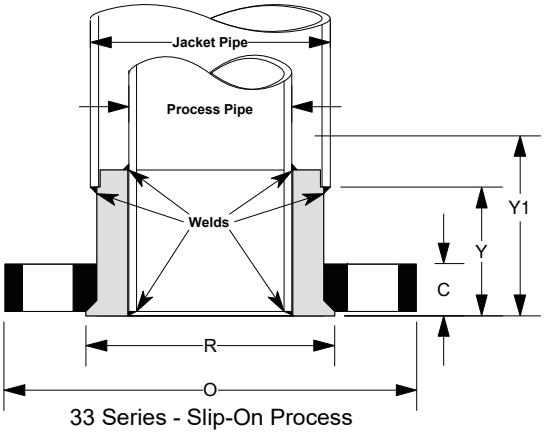
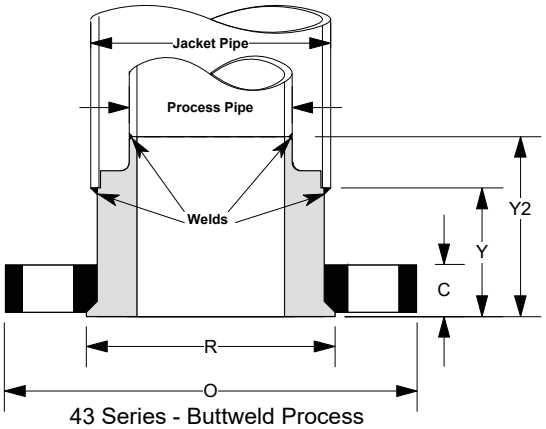
American Insert Flange

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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