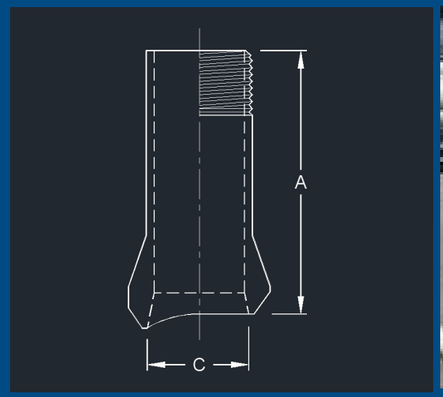
BRANCH FITTINGS AND SPECIALTY FORGED PRODUCTS

BRIVAMEX



BRIVAMEX

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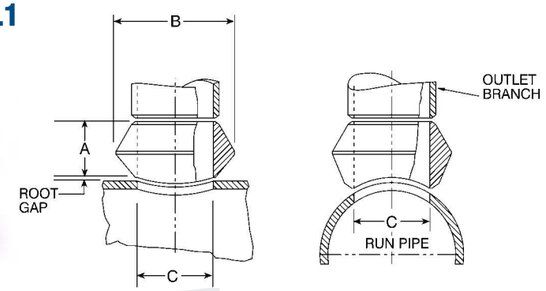
WELDOLETTE

SA/A105 & SA/A350 LF2 CL1

BUTT-WELD

STANDARD WEIGHT

EXTRA STRONG



Standard

Outlet Size Inches	Dimensions A	B	C*	Appx. Weight Pounds
1/8	5/8	7/8	0.269	0.08
1/4	5/8	7/8	0.364	0.08
3/8	3/4	1	0.493	0.10
1/2	3/4	1-1/8	0.622	0.12
3/4	7/8	1-1/2	0.824	0.22
1	1-1/16	1-13/16	1.062	0.32
1-1/4	1-1/4	2-1/4	1.38	0.64
1-1/2	1-5/16	2-9/16	1.625	0.78
2	1-1/2	3-5/16	2.313	1.14
2-1/2	1-5/8	3-21/32	2.500	1.94
3	1-3/4	4-9/32	3.125	2.60
3-1/2	1-7/8	5	3.548	4.45
4	2	5 -3/8	4.145	4.12
6	2-3/8	7-21/32	6.112	11.00
8	2-3/4	9-3/4	7.981	18.00
10	3-1/16	12	10.020	27.22
12	3-3/8	14-1/4	12.000	44.00
14	3-1/2	15-1/2	13.250	56.00
16	3-11/16	17-5/8	15.250	76.00
18	3-13/16	19-3/4	17.250	97.00
20	4	21-7/8	19.250	120.00
24	4-9/16	26	23.250	194.61
26	4-11/16	28-7/16	25.250	230.90
30	5-3/8	32-5/8	29.250	335.23
36	5-3/8	38-15/16	35.250	477.50

Larger outlet sizes available on application

Extra Strong

Outlet Size Inches	Dimensions A	B	C*	Appx. Weight Pounds
1/8	5/8	7/8	0.215	0.10
1/4	5/8	7/8	0.302	0.10
3/8	3/4	1	0.423	0.10
1/2	3/4	1-1/8	0.546	0.12
3/4	7/8	1-1/2	0.742	0.18
1	1-1/16	1-13/16	1.062	0.36
1-1/4	1-1/4	2-1/4	1.278	0.55
1-1/2	1-5/16	2-9/16	1.625	0.68
2	1-1/2	3-5/16	2.313	1.24
2-1/2	1-5/8	3-21/32	2.500	2.26
3	1-3/4	4-9/32	3.125	2.84
3-1/2	1-7/8	5	3.364	4.96
4	2	5-3/8	4.145	4.56
6	3-1/16	7-21/32	5.800	15.00
8	3-7/8	9-3/4	7.625	28.66
10	3-11/16	12	9.750	36.19
12	4-1/16	14-1/4	11.750	67.00
14	3-15/16	15-1/2	13.000	72.25
16	4-3/16	17-5/8	15.000	102.10
18	4-3/8	19-3/4	17.000	129.75
20	4-11/16	21-7/8	19.000	165.85
24	5-1/2	26	23.000	262.10
26	5-3/4	28-7/16	25.000	315.67

Larger outlet sizes available on application

Each outlet size listed is available to fit any run curvature.
BW Ends per B16.9 and B16.25. Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes 6" and less fit a number of run pipe sizes, and the fittings are marked accordingly. See page 30 for Pipet Consolidation Chart.

SCHEDULES — Standard Weight Fittings are the same as schedule 40 fittings through 10". A schedule 40 Butt-Weld Pipet for sizes 12" and larger is available. Dimensions and prices on application. Extra Strong Fittings are the same as schedule 80 fittings through 8". A schedule 80 Butt-Weld Pipet for sizes 10" and larger is available. Dimensions and prices on application. Pipe schedule numbers and weight designations are in accordance with ASME B36.10.

FLATS — A flat Butt-Weld Pipet fitting for use on welding caps, elliptical heads and flat surfaces is available.

ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the "B" and "C" dimensions as deemed necessary.

*The "C" dimension represents the waterway dimension of the fitting and does not include the minimal taper and radius required for manufacturing purposes. Installation holes in header should be based on actual fittings.

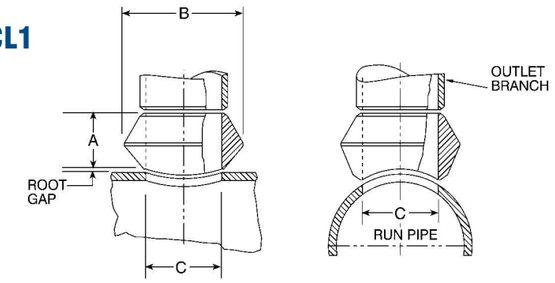
WELDOLETTE

SA/A105 & SA/A350 LF2 CL1

BUTT-WELD

SCHEDULE 160

XXS



Schedule 160

Outlet Size Inches	Dimensions A	B	C*	Appx. Weight Pounds
1/2	1-1/8	1-1/4	0.464	0.24
3/4	1-1/4	1-1/2	0.612	0.39
1	1-1/2	1-3/4	0.815	0.62
1-1/4	1-3/4	2-1/4	1.160	1.16
1-1/2	2	2-3/4	1.338	1.80
2	2-3/16	3	1.689	2.29
2-1/2	2-7/16	4	2.125	3.02
3	2-7/8	4-7/16	2.624	6.34
4	3-5/16	5 -3/8	3.438	9.94
6	4-1/8	8-1/2	5.187	25.25

XXS

Outlet Size Inches	Dimensions A	B	C*	Appx. Weight Pounds
1/2	1-1/8	1-1/4	0.252	0.23
3/4	1-1/4	1-1/2	0.434	0.65
1	1-1/2	1-3/4	0.599	0.78
1-1/4	1-3/4	2-1/4	0.896	1.16
1-1/2	2	2-3/4	1.100	1.60
2	2-3/16	3	1.503	2.46
2-1/2	2-7/16	4	1.771	3.02
3	2-7/8	4-7/16	2.300	6.91
4	3-5/16	5 -3/8	3.152	11.00
6	4-1/8	8-1/2	4.897	32.94

Each outlet size listed is available to fit any run curvature.
BW Ends per B16.9 and B16.25. Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes 6" and less fit a number of run pipe sizes, and the fittings are marked accordingly. See page 30 for Pipet Consolidation Chart.

SCHEDULES — Pipe schedule numbers and weight designations are in accordance with ASME B36.10.

FLATS — A flat Butt-Weld Pipet fitting for use on welding caps, elliptical heads and flat surfaces is available.

ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the "B" and "C" dimensions as deemed necessary.

*The "C" dimension represents the waterway dimension of the fitting and does not include the minimal taper and radius required for manufacturing purposes. Installation holes in header should be based on actual fittings.

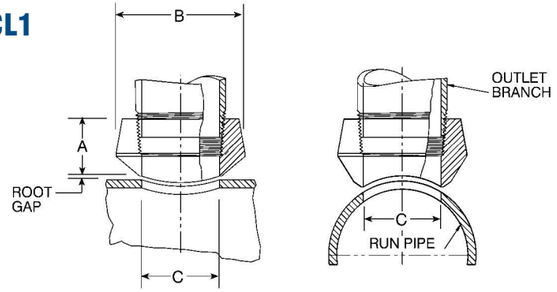
THREDOLETTE

SA/A105 & SA/A350 LF2 CL1

THREDOLETTE

CL 3000

CL 6000



	Outlet Size Inches	Dimensions A	B	C*	Appx. Weight Pounds
CL 3000	1/4	3/4	1-1/16	.437	0.14
	3/8	13/16	1-1/16	.563	0.14
	1/2	1	1-15/32	.718	0.28
	3/4	1-1/16	1-45/64	.922	0.39
	1	1-5/16	2-3/32	1.156	0.73
	1-1/4	1-5/16	2-17/32	1.500	0.96
	1-1/2	1-3/8	2-25/32	1.734	1.12
	2	1-1/2	3-5/16	2.218	1.66
	2-1/2	1-13/16	3-29/32	2.625	2.73
	3	2	4-21/32	3.250	3.88
	4	2-1/4	5-13/16	4.250	6.18

	Outlet Size Inches	Dimensions A	B	C*	Appx. Weight Pounds
CL 6000	1/4	3/4	1-1/16	.437	0.14
	3/8	1-1/8	1-5/16	.563	0.14
	1/2	1-1/4	1-3/4	.718	0.28
	3/4	1-7/16	2-1/16	.922	0.39
	1	1-9/16	2-17/32	1.156	0.73
	1-1/4	1-5/8	2-1/2	1.484	0.96
	1-1/2	1-11/16	3-5/16	1.734	1.12
	2	2-1/16	3-31/32	2.218	1.66

Each outlet size listed is available to fit any run curvature.
Thredolette ends are in accordance with ANSI/ASME B1.20.1 Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes noted above fit a number of run pipe sizes, and the fittings are marked accordingly. See page 30 for Pipet Consolidation Chart.

FLATS — A flat Threaded Pipet for use on welding caps, elliptical heads and flat surfaces is available.

ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the “B” and “C” dimensions as deemed necessary.

*The "C" dimension represents the waterway dimension of the fitting and does not include the minimal taper and radius required for manufacturing purposes. Installation holes in header should be based on actual fittings.

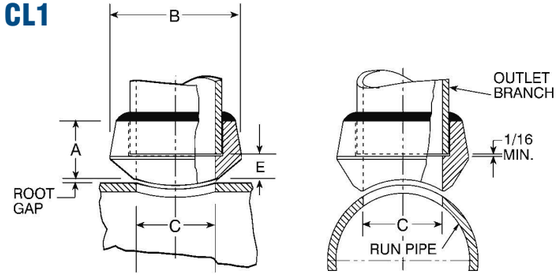
SOCKOLETTE

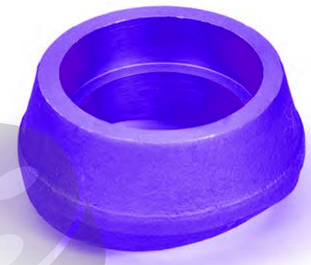
SA/A105 & SA/A350 LF2 CL1

SOCKOLETTE

CL 3000

CL 6000





	Outlet Size Inches	Dimensions A	B	C*	E	Appx. Weight Pounds
CL 3000	1/4	3/4	1	0.364	3/8	0.14
	3/8	13/16	1-1/16	0.493	7/16	0.14
	1/2	1	1-15/32	0.622	9/16	0.28
	3/4	1-1/16	1-45/64	0.824	9/16	0.39
	1	1-5/16	2-3/32	1.049	25/32	0.73
	1-1/4	1-5/16	2-17/32	1.38	23/32	0.96
	1-1/2	1-3/8	2-25/32	1.61	3/4	1.12
	2	1-1/2	3-5/16	2.067	13/16	1.66
	2-1/2	1-13/16	3-29/32	2.469	3/4	2.73
	3	2	4-21/32	3.068	15/16	3.88
	4	2-1/4	5-13/16	4.026	1-1/16	6.60

	Outlet Size Inches	Dimensions A	B	C*	E	Appx. Weight Pounds
CL 6000	1/2	1-1/4	1-3/4	0.464	13/16	0.28
	3/4	1-7/16	2-1/16	0.612	15/16	0.39
	1	1-9/16	2-17/32	0.815	1-1/32	0.73
	1-1/4	1-5/8	2-1/2	1.160	1-1/32	0.96
	1-1/2	1-5/8	3-5/16	1.338	1-1/16	1.63
	2	2-1/16	3-31/32	1.687	1-3/8	1.66

Each outlet size listed is available to fit any run curvature.
Sockolette dimensions are in accordance with ASME B16.11. Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes noted above fit a number of run pipe sizes, and the fittings are marked accordingly. See page 30 for Pipet Consolidation Chart.

FLATS — A flat Socket-Weld Pipet for use on welding caps, elliptical heads and flat surfaces is available.

ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the “B” and “C” dimensions as deemed necessary.

*The "C" dimension represents the waterway dimension of the fitting and does not include the minimal taper and radius required for manufacturing purposes. Installation holes in header should be based on actual fittings.

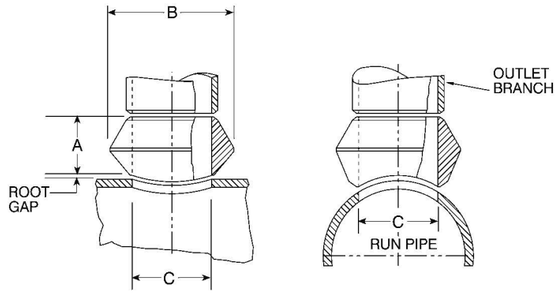
WELDOLETTE

STAINLESS & ALLOY

BUTT-WELD

STANDARD WEIGHT

EXTRA STRONG



	Outlet Size Inches	Dimensions A	B	C	Appx. Weight Pounds
Standard	3/8	3/4	1	0.493	0.09
	1/2	3/4	1-1/8	0.622	0.12
	3/4	7/8	1-1/2	0.824	0.28
	1	1-1/16	1-3/4	1.049	0.34
	1-1/4	1-1/4	2-1/4	1.38	0.72
	1-1/2	1-5/16	2-1/2	1.610	0.90
	2	1-1/2	3	2.067	1.12
	2-1/2	1-5/8	3-1/2	2.469	2.31
	3	1-3/4	4	3.068	2.50
	4	2	5	4.026	5.89
	6	2-3/8	7-1/2	6.065	10.50

	Outlet Size Inches	Dimensions A	B	C	Appx. Weight Pounds
Extra Strong	3/8	3/4	1	0.423	0.15
	1/2	3/4	1-1/8	0.546	0.12
	3/4	7/8	1-1/2	0.742	0.21
	1	1-1/16	1-3/4	0.957	0.43
	1-1/4	1-1/4	2-1/4	1.278	0.69
	1-1/2	1-5/16	2-1/2	1.500	0.89
	2	1-1/2	3	1.939	1.25
	2-1/2	1-5/8	3-1/2	2.323	2.63
	3	1-3/4	4	2.900	3.82
	4	2	5	3.826	6.17
	6	3-1/16	7-1/2	5.761	15.06

Each outlet size listed is available to fit any run curvature.
BW Ends per B16.9 and B16.25. Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes 6" and less fit a number of run pipe sizes, and the fittings are marked accordingly. See page 31 for Pipet Consolidation Chart.

SCHEDULES — Standard Weight Fittings are the same as schedule 40 fittings through 10". A schedule 40 Butt-Weld Pipet for sizes 12" and larger is available. Dimensions and prices on application. Extra Strong Fittings are the same as schedule 80 fittings through 8". A schedule 80 Butt-Weld Pipet for sizes 10" and larger is available. Dimensions and prices on application. Pipe schedule numbers and weight designations are in accordance with ASME B36.10.

FLATS — A flat Butt-Weld Pipet fitting for use on welding caps, elliptical heads and flat surfaces is available.

ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, Bonney Forge reserves the right to change the “B” and “C” dimensions as deemed necessary.

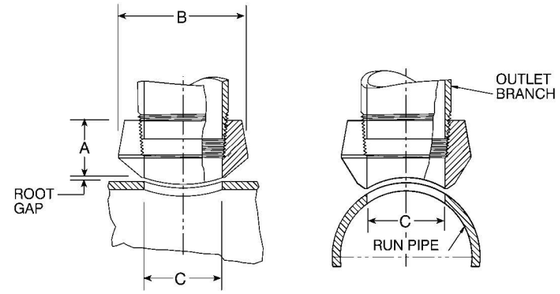
THREDOLETTE

STAINLESS & ALLOY

THREDOLETTE

CL 3000

CL 6000



	Outlet Size Inches	Dimensions A	B	C	Appx. Weight Pounds
CL 3000	1/4	3/4	7/8	.438	0.14
	3/8	13/16	1	.563	0.14
	1/2	1	1-1/4	.703	0.28
	3/4	1-1/16	1-1/2	.906	0.39
	1	1-5/16	1-7/8	1.141	0.73
	1-1/4	1-5/16	2-1/4	1.484	0.96
	1-1/2	1-3/8	2-1/2	1.719	1.12
	2	1-1/2	3	2.188	1.66

	Outlet Size Inches	Dimensions A	B	C	Appx. Weight Pounds
CL 6000	1/4	3/4	1	.438	0.14
	3/8	1-1/8	1-1/4	.563	0.14
	1/2	1-1/4	1-1/2	.703	0.28
	3/4	1-7/16	1-3/4	.906	0.39
	1	1-9/16	2-1/4	1.141	0.73
	1-1/4	1-5/8	2-1/2	1.484	0.96
	1-1/2	1-11/16	3	1.719	1.63
	2	2-1/16	3-5/8	2.188	1.66

Each outlet size listed is available to fit any run curvature.
Thredolette ends are in accordance with ANSI/ASME B1.20.1 Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes noted above fit a number of run pipe sizes, and the fittings are marked accordingly. See page 31 for Pipet Consolidation Chart.

FLATS — A flat Threaded Pipet for use on welding caps, elliptical heads and flat surfaces is available.

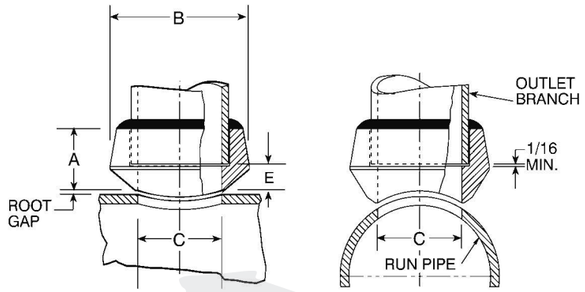
ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the “B” and “C” dimensions as deemed necessary.

Sockolette

Stainless & Alloy

- Sockolette
- CL 3000
- CL 6000



	Outlet Size Inches	Dimensions				Appx. Weight Pounds
		A	B	C	E	
CL 3000	1/4	3/4	7/8	0.364	3/8	0.14
	3/8	13/16	1-1/16	0.493	7/16	0.14
	1/2	1	1-1/4	0.622	9/16	0.28
	3/4	1-1/16	1-1/2	0.824	9/16	0.39
	1	1-5/16	1-7/8	1.049	25/32	0.73
	1-1/4	1-5/16	2-1/4	1.38	23/32	0.96
	1-1/2	1-3/8	2-1/2	1.61	3/4	1.12
	2	1-1/2	3	2.067	13/16	1.66

	Outlet Size Inches	Dimensions				Appx. Weight Pounds
		A	B	C	E	
CL 6000	1/2	1-1/4	1-3/8	.464	13/16	0.28
	3/4	1-7/16	1-3/4	.612	15/16	0.39
	1	1-9/16	2	.815	1-1/32	0.73
	1-1/4	1-5/8	2-1/2	1.16	1-1/32	0.96
	1-1/2	1-11/16	2-3/4	1.338	1-1/16	1.63
	2	2-1/16	3-3/8	1.687	1-3/8	1.66

Each outlet size listed is available to fit any run curvature.

Sockolette dimensions are in accordance with ASME B16.11. Design per MSS-SP-97.

RUN PIPE SIZES — Outlet sizes noted above fit a number of run pipe sizes, and the fittings are marked accordingly. See page 31 for Pipet Consolidation Chart.

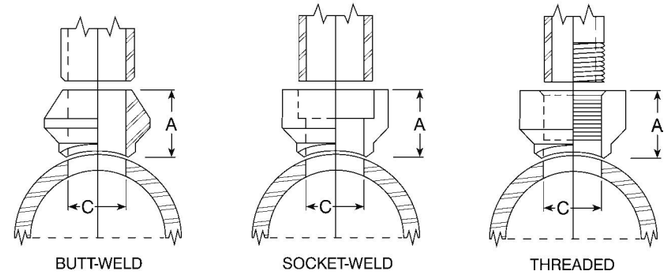
FLATS — A flat Socket-Weld Pipet for use on welding caps, elliptical heads and flat surfaces is available.

ORDERING — When ordering a fitting, see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the “B” and “C” dimensions as deemed necessary.

Lightweight Schedule 10s, LW, and CL300

- Butt-Weld
- Threaded
- Socket Weld



Outlet Size Inches	BUTT-WELD			THREADED*			SOCKET WELD				
	Dimensions		Appx. Wt/Lb	Dimensions		Appx. Wt/Lb	Dimensions				Appx. Wt/Lb
	A	C		A	C		A	C			
								3M	5s	10s	
		C = ID of specified branch pipe						3M provided unless otherwise specified			
1/2	3/4		0.10	1	0.703	0.25	1	0.622	0.710	0.674	0.24
3/4	7/8		0.23	1-1/16	0.906	0.35	1-1/16	0.824	0.920	0.884	0.34
1	1-1/16		0.26	1-5/16	1.141	0.65	1-5/16	1.049	1.185	1.097	0.63
1-1/2	1-5/16		0.78	1-3/8	1.719	0.92	1-3/8	1.610	1.770	1.682	0.91
2	1-1/2		0.89	1-1/2	2.188	1.40	1-1/2	2.067	0.703	2.157	1.37
3	1-3/4		2.27								
4	2		4.37								
6	2-3/8		10.19								

*Branch dimensions are in accordance with ASME B16.11 CL 3M.

Benefits

- Reduces Welding — Reduces weld volume and welding time by more than 50% compared to traditional designs.
- Reduces Header Weld Cross Section — Allows full penetration groove welds without “suck in” or distortion.
- Reduces Heat Build Up — Reduces run pipe heat distortion.
- Is Used on All Run Pipe Thicknesses — (CL300) S5s/10s & LW design can be used with any schedule or thickness run pipe in B16.5 Class 150 & Class 300 piping systems.
- Meets Piping Codes & Standards — Burst Tests, Markl Fatigue Tests, Finite Element Analysis, MSS-SP-97, ASME B31.1 & B31.3, ASME/ANSI B16.9 & B16.11.

Identification

Specify Butt-Weld as follows:

Light Wall x Branch Schedule: 10" LW x 2" S10s

Run Schedule x Branch Schedule: 10" S10s x 2" S10s

CL300 x Branch Schedule: 10" CL300 x 2" Std Wt*

Specify Socket-Weld & Threaded as follows:

Light Wall x Branch Class: 10" LW x 2" CL 3M SWP

Run Wall x Branch Class: 10" S10s x 2" CL 3M THD
10" S40s x 2" CL 3M SWP S10s

CL300 x Branch Class: 10" CL300 x 2" CL 3M THD

*Fittings designated CL300 can be installed on any run pipe thickness (S10s, Std, XS, S160, XXS) in B16.5 Class 150 or Class 300 Piping Systems.

**To obtain S10s/LW/CL300 design for run pipes thicker than S10s, either LW or CL300 must be specified.

NOTE: Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the “C” dimension as deemed necessary.

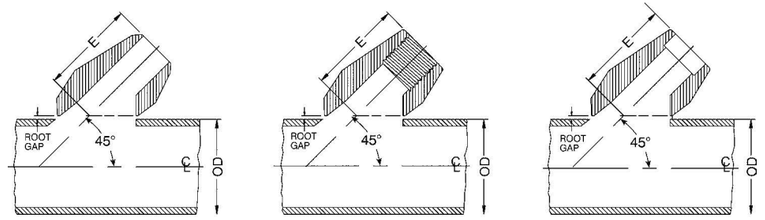
See page 32 for consolidation chart.

Latrolette & Elbolette

BRIVAMEX

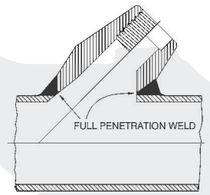
45° Connections

Forged



BUTT WELD THREADED SOCKET-WELD

45° BRANCH CONNECTIONS
THREADED, SOCKET-WELD AND BUTT-WELD ENDS



Nominal Run Pipe Size	Outlet Size	Dimensions			
		CL 3000 Threaded and Socket-Weld	CL 6000 Threaded and Socket-Weld	STD & XS Butt-Weld	Sch. 160 and XXS Butt-Weld
		E	E	E	E
2-1/2 - 1-1/4 12 - 3	1/4	1-9/16	1-9/16	1-9/16	
2-1/2 - 1-1/4 12 - 3	3/8	1-9/16	1-9/16	1-9/16	
2-1/2 - 1-1/4 12 - 3	1/2	1-9/16	1-15/16	1-9/16	1-7/8
1-1/2 - 1-1/4 5 - 2 12 - 6	3/4	1-15/16	2-1/4 2-1/4 2-5/16	1-15/16	2-1/8
2-1/2 - 2 5 - 3 12 - 6	1	2-1/4 2-1/4 2-5/16	2-1/2	2-1/4 2-1/4 2-5/16	2-7/16
2-1/2 - 2 5 - 3 12 - 6	1-1/4	2-1/2	2-11/16	2-1/2	2-15/16
2-1/2 - 2 5 - 3 12 - 6	1-1/2	2-11/16	3-3/16	2-11/16	3-1/4
5 - 4 8 - 6 12 - 10	2	3-3/16		3-7/16	
Order to Specific Run Pipe Sizes	3				
	4				

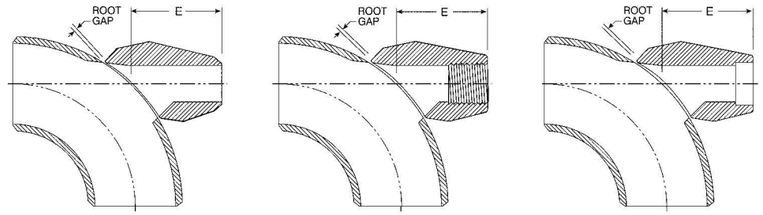
Also available for run sizes through 36".
See footnotes at bottom of page 15.

Laltrolette & Elbonette

BRIVAMEX

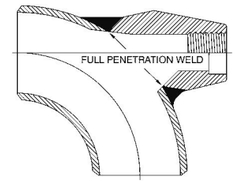
90° Long Radius

Forged



BUTT-WELD THREADED SOCKET-WELD

FOR ELBOW OUTLETS
THREADED, SOCKET-WELD AND BUTT-WELD ENDS



Nominal Elbow Size Inches	Outlet Size Inches	Dimensions			
		STD. Buttweld	XS Buttweld	CL 3000 THD and Socketweld	CL 6000 THD and Socketweld
		E	E	E	E
36 thru 3/4 36 thru 1	1/2 3/4	1-3/8 1-11/16	1-3/8 1-11/16	1-19/32 1-7/8	1-7/8 2-1/4
36 thru 2 36 thru 2	1 1-1/4	1-15/16 2-1/8	1-15/16 2-1/8	2-1/4 2-1/2	2-1/2 2-11/16
36 thru 2 36 thru 2	1-1/2 2	2-5/16 2-3/4	2-5/16 2-3/4	2-11/16 3-1/4	3-1/4
Order to Specific Elbow Sizes	**2-1/2 **3 **4	3-3/16 3-1/2 4-5/16	3-3/16 3-1/2 4-5/16	**	**

Footnotes applying to the Elbo Pipet and Lateral Pipet:

Socket Dimensions to ASME B16.11
Thread Dimensions to ANSI/ASME B1.20.1
Butt-Weld End Dimensions to ASME B16.9 & B16.25
Each Elbo Pipet 2" & smaller is uniquely designed to fit all the elbow sizes shown. The complete size range interchangeability is so marked on the fitting.
**Available as Butt-Weld outlets only. Larger sizes available - STD/XS/S160/XXS.

ORDERING When ordering fittings - see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change dimensions as deemed necessary.

The values listed are based on long radius elbows, twice the branch size listed.

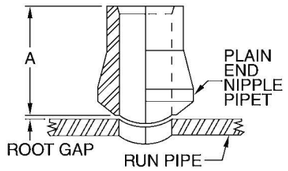
Nipolette

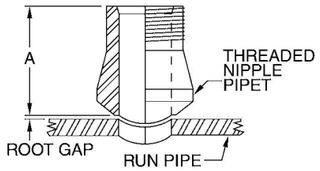
BRIVAMEX

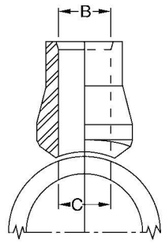
Plain End

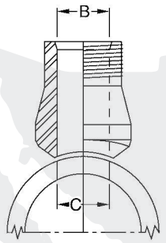
Threaded End

Integrally reinforced branch connection of one piece construction which eliminates costly welds and provides convenience of socket-weld and threaded ends for valves and instruments. Available in standard lengths of 3 1/2" and 6 1/2". Special lengths on request.









Threaded & Plain End	Outlet Size Inches	Dimensions A*	Dimensions B S/80	Dimensions B S/160	Dimensions B XXS	Appx. Weight Pounds
	1/2	3-1/2	0.546	0.464	0.252	0.45
	3/4	3-1/2	0.742	0.612	0.434	0.64
	1	3-1/2	0.957	0.815	0.599	0.92
	1-1/4	3-1/2	1.278	1.160	0.896	1.40
	1-1/2	3-1/2	1.500	1.338	1.100	1.72
	2	3-1/2	1.939	1.687	1.503	2.50

Threaded & Plain End	Outlet Size Inches	Dimensions A*	Dimensions C S/80	Dimensions C S/160	Dimensions C XXS	Appx. Weight Pounds
	1/2	3-1/2	0.464	0.464	0.252	0.45
	3/4	3-1/2	0.612	0.612	0.434	0.64
	1	3-1/2	0.815	0.815	0.599	0.92
	1-1/4	3-1/2	1.160	1.160	0.896	1.40
	1-1/2	3-1/2	1.338	1.338	1.100	1.72
	2	3-1/2	1.687	1.687	1.503	2.50

*Available in lengths 4 1/2", 5 1/2" and 6 1/2"
Weights based on Carbon Steel (.283 lbs/in^3)

ORDERING When ordering fittings - see page 4.

Although every attempt has been made to insure that the information contained in these tables is correct, WFI reserves the right to change the "C" dimension as deemed necessary.

Flanged Pipet

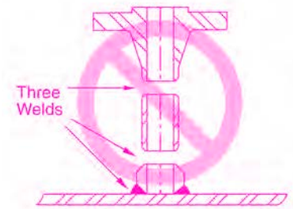
BRIVAMEX

Overview

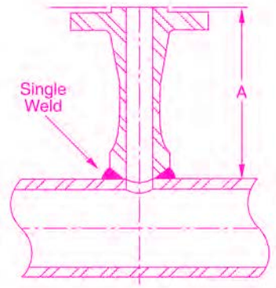
ELIMINATE WELDS!

Don't waste time and money making **3 welds**... when the **single weld WFI® Flanged Pipet** performs better!

OLD METHOD
Branch Connection–
Pipe-Weld Neck Flange



NEW METHOD
WFI® Flanged Pipet®



FORGED ONE-PIECE CONSTRUCTION MEANS LESS WELDING.

WFI Flanged Pipets are available in any length, material, pipe wall thickness and flange rating.

WFI Flanged Pipets offer a simplified installation and provide more exacting tolerances where multiple flanges of constant height are required.

One-piece construction eliminates two extra stress points and the clean, seamless bore offers better performance. The base is contoured for attachment to a pipe, elbow or vessel.

RF, RTJ and other standard flanged faces are available.

- Excellent choice for **hot tap** applications. (When specified, hot tap configurations will be supplied.)
- Integrally reinforced, weld-on connection.
- Exclusive design distributes stress more evenly and removes flow interruptions.
- Available in all sizes, heights, wall thicknesses, and materials.

Ordering Information

Specify:

- Header Size and Schedule
- Outlet Size and Schedule
- Flange Rating and Bore
- Face Style (RF, RTJ, Etc.)
- Design Standard (ASME B16.5 unless otherwise requested)

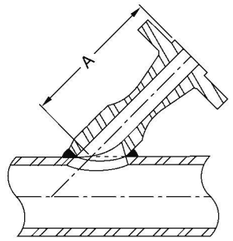
Example: 6" Std. Wt. x 2" 300# RF S80 Bore

AVAILABLE IN ALL FORGING-QUALITY MATERIALS.

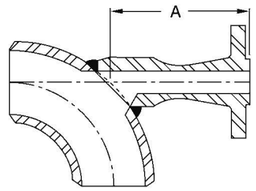
Flanged Pipet

BRIVAMEX

- CL 150
- CL 300
- CL 400 & 600
- CL 900 & 1500
- CL 2500



45° FLANGED PIPET



ELBO-FLANGED PIPET

	Outlet Size	A	Flange O.D.	Flange Thk.	Bolt Circle	No. of Holes	Bolt Hole
CL 150	1/2	6	3.50	.44	2.38	4	.62
	3/4	6	3.88	.50	2.75	4	.62
	1	6	4.25	.56	3.12	4	.62
	1 1/4	6	4.62	.62	3.50	4	.62
	1 1/2	6	5.00	.69	3.88	4	.62
	2	6	6.00	.75	4.75	4	.75
CL 300	1/2	6	3.75	.56	2.62	4	.62
	3/4	6	4.62	.62	3.25	4	.75
	1	6	4.88	.69	3.50	4	.75
	1 1/4	6	5.25	.75	3.88	4	.75
	1 1/2	6	6.12	.81	4.50	4	.88
	2	6	6.50	.88	5.00	8	.75
CL 400 & 600	1/2	6	3.75	.56	2.62	4	.62
	3/4	6	4.62	.62	3.25	4	.75
	1	6	4.88	.69	3.50	4	.75
	1 1/4	6	5.25	.81	3.88	4	.75
	1 1/2	6	6.12	.88	4.50	4	.88
	2	6	6.50	1.00	5.00	8	.75
CL 900 & 1500	1/2	6*	4.75	.88	3.25	4	.88
	3/4	6*	5.12	1.00	3.50	4	.88
	1	6*	5.88	1.12	4.00	4	1.00
	1 1/4	6*	6.25	1.12	4.38	4	1.00
	1 1/2	6*	7.00	1.25	4.88	4	1.12
	2	9	8.50	1.50	6.50	8	1.00
CL 2500	1/2	6*	5.25	1.19	3.50	4	.88
	3/4	6*	5.50	1.25	3.75	4	.88
	1	6*	6.25	1.38	4.25	4	1.00
	1 1/4	6*	7.25	1.50	5.12	4	1.12
	1 1/2	9	8.00	1.75	5.75	4	1.25
	2	9	9.25	2.00	6.75	8	1.12

NOTES: Flange dimensions and tolerances are in accordance with published flange standards (ASME B16.5, API6A, etc.) Available in all standard facings
Outlet sizes greater than 2" NPS are available upon request.
"A" dimensions other than 6" are available upon request.
Flange thickness for Class 150 and Class 300 include 1/16" raised face.
Flange thickness for Class 600, 1500 and 2500 does not include 1/4" raised face.
Available under MIL-I-45208 and ASME Section III Quality Programs.

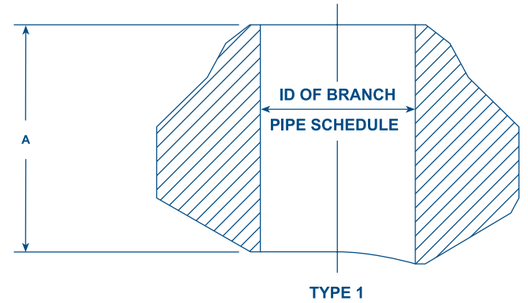
*For 1500 and 2500 Class when used as a Lateral Pipet or Elbo Pipet, the flange diameter may cause interference with the run pipe. For that reason in these products, WFI offers a standard "A" dimension of 9". If a shorter "A" dimension is required, it is recommended that you contact WFI.

Weldolette

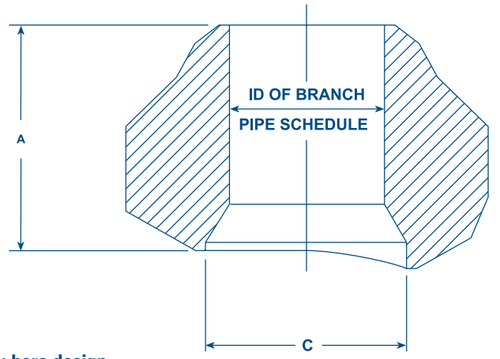
BRIVAMEX

- Heavy Wall
- Forged

The Heavy Wall Forged Pipet® is an integrally reinforced branch connection. It provides the economical and engineering answer to the problem of welding outlet fittings on high pressure, high temperature piping and pressure vessels.



TYPE 1



TYPE 2

Type 1 - Straight thru bore design
Type 2 - Conventional tapered bore design

Run Wall Thickness	3/4		1		1 1/4		1 1/2		1 3/4		2		2 1/4		2 1/2		2 3/4		3	
Branch Pipe Size	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C	A	C
3	2-7/8	2.906	3-7/32	2.900	3-3/8	2.906	3-5/8	2.900	4-1/8	2.900	4-9/16	2.900	5	2.900	5-1/2	2.900	5-7/8	2.900	6-1/16	2.900
3-1/2	3-1/8	3.359	3-1/4	3.359	3-7/16	3.359	3-3/4	3.359	4-3/16	3.359	4-5/8	3.359	5-1/16	3.359	5-9/16	3.359	6	3.359	6-5/16	3.359
4	3-5/16	3.843	3-3/8	3.826	3-1/2	3.828	3-7/8	3.826	4-3/4	3.826	4-3/4	3.826	5-3/16	3.826	5-5/8	3.826	6-1/8	3.826	6-9/16	3.826
5	3-3/4	4.812	3-3/4	4.812	4	4.812	4-1/4	4.812	4-3/4	4.812	5-1/4	4.812	5-3/4	4.812	6-1/4	4.812	6-5/8	4.812	7-3/16	4.812
6	4-1/8	5.750	4-11/32	5.761	4-1/2	5.760	4-11/16	5.760	5-1/4	5.760	5-3/4	5.760	6-1/4	5.760	6-3/4	5.760	7-1/4	5.760	7-13/16	5.760
8	4-3/16	7.625	4-5/8	7.625	4-7/8	7.625	5-5/32	7.625	5-3/4	7.625	6-11/32	7.625	6-15/16	7.625	7-17/32	7.625	8-3/32	7.625	8-11/16	7.625
10	4-1/4	9.750	4-27/32	9.750	5	9.562	5-5/16	9.562	5-15/16	9.562	6-9/16	9.562	7-3/16	9.562	7-13/16	9.562	8-7/16	9.562	9-1/16	9.562
12	4-3/8	11.750	5-3/32	11.750	5-3/8	11.375	5-11/16	11.375	6-5/16	11.375	6-15/16	11.375	7-9/16	11.375	8-3/16	11.375	8-13/16	11.375	9-7/16	11.375
14	4-1/2	13	5-1/4	13	5-1/2	12.500	5-13/16	12.500	6-5/16	12.500	6-15/16	12.500	7-9/16	12.500	8-3/16	12.500	8-13/16	12.500	9-7/16	12.500
16	4-11/16	15	5-7/8	15	6	14.312	6-7/16	14.310	6-5/8	14.310	7-1/4	14.310	7-7/8	14.310	8-1/2	14.310	9-1/8	14.310	9-3/4	14.310
18	5-1/8	17	6-1/2	17	6-1/2	16.125	6-1/2	16.126	6-13/16	16.126	7-7/16	16.126	8-7/32	16.126	8-13/16	16.126	9-13/32	16.126	10-1/32	16.126
20	5-5/8	19	6-3/4	19	7	17.937	7-9/16	17.938	7-25/32	17.938	8-3/32	17.938	8-21/32	17.938	9-1/4	17.938	9-29/32	17.938	10-15/32	17.938
24	6-1/2	23	7-5/8	23	8	21.564	8-23/32	21.564	8-31/32	21.564	9-13/16	21.568	10-1/2	21.568	11	21.564	12-9/16	21.564	10-21/32	21.564