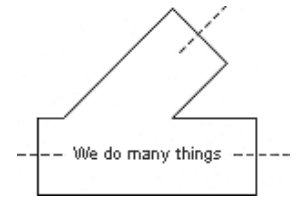


# 2007

## **UNITED STATES FITTINGS, INC.**

### **Product Selection Guide**

United States Fittings, Inc.  
21509 Aurora Road  
Bedford, OH 44146  
Phone: (800) 444-1990  
Fax: (216) 663-8914  
Email: [sales@unitedstatesfittings.com](mailto:sales@unitedstatesfittings.com)  
Web: [www.unitedstatesfittings.com](http://www.unitedstatesfittings.com)



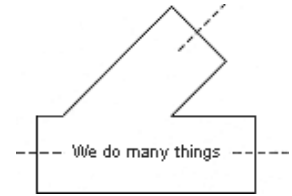
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## TABLE OF CONTENTS

Company Information	3
Typical Examples Of Our Products	5
Request For Quotation Form	6
Laterals and True Wyes	7
Carbon Steel Butt Weld Crosses	9
Wafer Spacer	11
Wafer Buddy	12
Shaped Nipples	13
Adaptor Nipples	14
Lightweight Ductile Iron Back-up Flanges	15
Stub Ends - Stainless Steel	16
Stub Ends - Carbon Steel	17



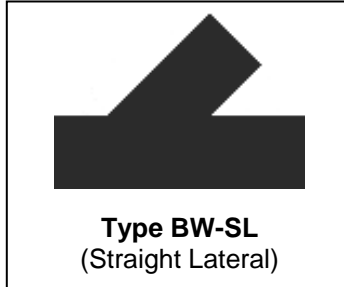
# UNITED STATES FITTINGS INC.



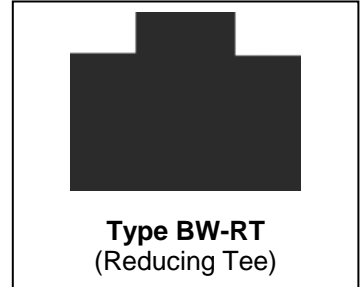
## COMPANY INFORMATION



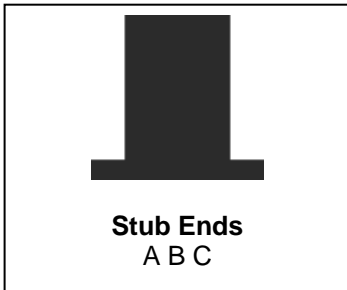
**Type BW-ST**  
(Straight Tee)



**Type BW-SL**  
(Straight Lateral)



**Type BW-RT**  
(Reducing Tee)



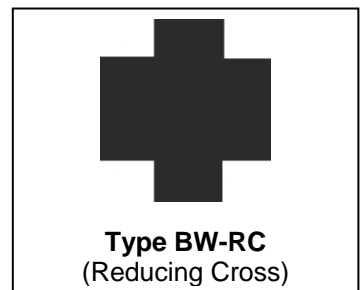
**Stub Ends**  
A B C

In 1980 *Welding Laterals, Inc.* began to build a unique business based upon the manufacture of top quality, hard-to-find, as welded, fabricated pipe fittings. These fittings were those that the major domestic manufacturers chose to stop producing.

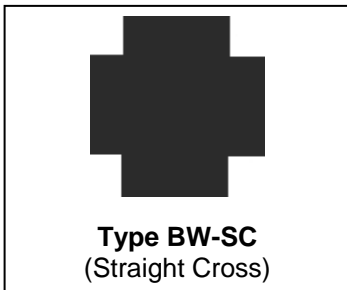
Today, we are specialists. Our product line includes laterals, crosses, true wyes, tees, shaped nipples, spool pieces and stub ends. But as our product line expanded we have found it necessary to change our name and on October 1st, 1989 we officially became **UNITED STATES FITTINGS, INC.**

As United States Fittings, Inc. enters the last decade of this century we are putting into place a complete computer system at our new 17,000 square foot manufacturing center. A number of new high speed machines will allow us to keep pace with our rapidly expanding customer base, and help us to continue supplying quality fabricated fittings to the pipe, valve and fitting distributors throughout the United States, Canada and Puerto Rico.

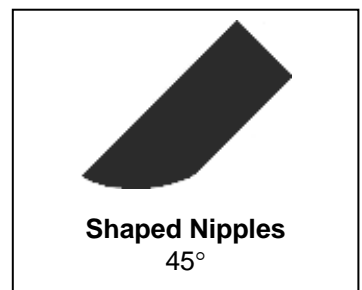
Please consider United States Fittings, Inc. a valuable part of your manufacturing base for domestically manufactured special pipe fittings. A competent staff will handle your needs quickly and efficiently.



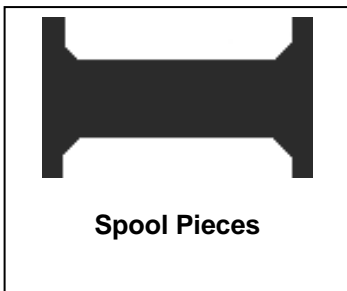
**Type BW-RC**  
(Reducing Cross)



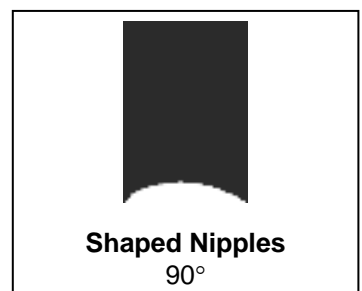
**Type BW-SC**  
(Straight Cross)



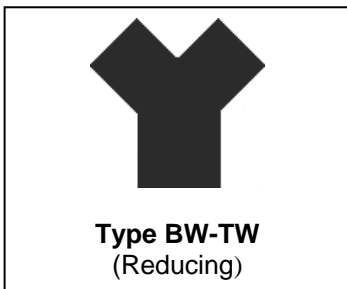
**Shaped Nipples**  
45°



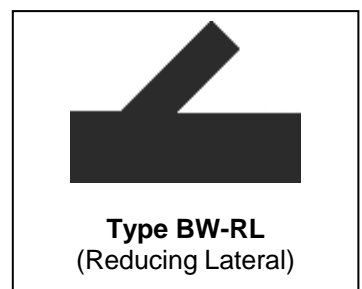
**Spool Pieces**



**Shaped Nipples**  
90°



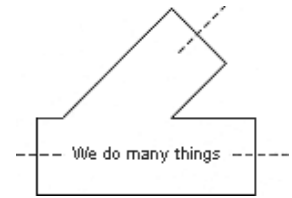
**Type BW-TW**  
(Reducing)



**Type BW-RL**  
(Reducing Lateral)



# UNITED STATES FITTINGS INC.



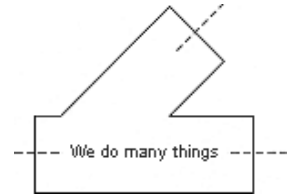
During a recent sales meeting, our outside representatives asked us to furnish a list of companies to whom our products have been supplied. Since U.S.F.I. sells through PVF distributors throughout the US, Canada, and Puerto Rico, we can only offer a list of “ship to” companies who have purchased our products through PVF distributors and to whom we have shipped to for those distributors.

Bechtel Corp.	Hoechst Celanese	Hess Oil
Honda	U.S.X.	Lubrizol Corp.
Inland Steel	Nissan	Fluor Daniels
Brooklyn Union	NY Port Authority	Ionics
Virginia Power	Penn. Power	Pfautler Co.
Monsato Chem.	Appalachian Power	Dover Chemical
Phillip Morris	Smith Kline	Ben & Jerry's
Mobil Oil	Bath Iron Works	Hose Master
C.E.I.	General Motors	Tenn. Eastman
Union Camp	Eastman Kodak	Ford Motors
Wheeling Steel	Minn Corn. Products	UpJohn Co
Texas Instruments	Gould, Inc.	Miller Brewery
Indiana Gas & Elect.	International Paper	N.A.S.A.
Quilever, Inc.	IBM Corp.	Boise Cascade
East Ohio Gas	Stam Industry	S.C. Johnson
Mead Paper	Solvay Minerals	Alloy Hard Casing
Bentec Corp.	Mobay Chemical	Corn Products
VRC Corp.	Eli Lilly	Amerigold Logistics
Sherwin Williams	QS Filter	General Electric
Anheuser Busch Co.	Arrow Tank	Eastman Chemical Co.
Western Sugar Co.	Proctor & Gamble	Commonwealth Edison
Union Carbide	Merk Chemical	Resskers Foods
Broughton Foods	Marathon Oil	P.P.G. Industries
Champion Paper	B & W	ADM Corp.
Georgia Power	Indiana Gas & Elect.	SCM Corp.
Specialty Hose	Avondale Mills	Hershey Chocolate
B.P. Oil	Goodyear Tire	Abbott Lab
Martin Marietta	Union Camp	Occidental Chem. Co.
Black & Veatch	Exxon	B.F. Goodrich Chem. Co.
National Oil Well	Kraft Foods	Dow Chemical

Please review the above list and in doing so, realize that U.S.F.I. manufactures numerous products that can be sold by PVF distributors who are dedicated to selling high quality items.



UNITED STATES FITTINGS INC.



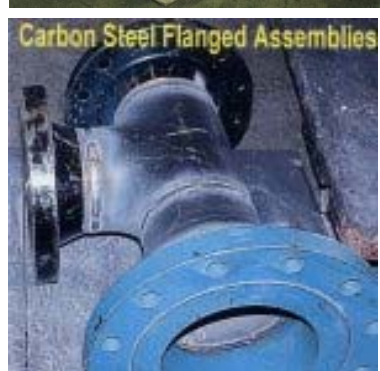
## TYPICAL EXAMPLES OF OUR PRODUCTS



Flanged Assembly



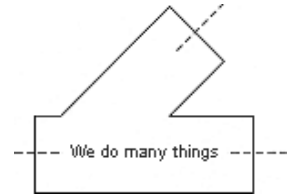
S.S. MSS-C STUB ENDS



Carbon Steel Flanged Assemblies



UNITED STATES FITTINGS INC.



## REQUEST FOR QUOTATION

Contact: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

State: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

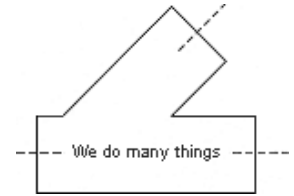
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_ Web: \_\_\_\_\_

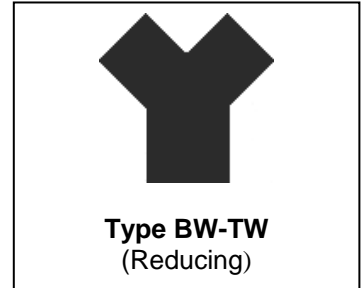
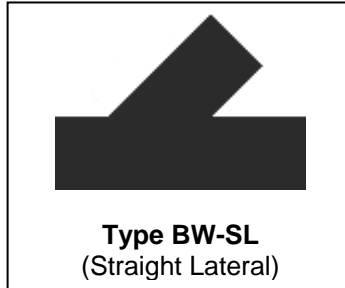
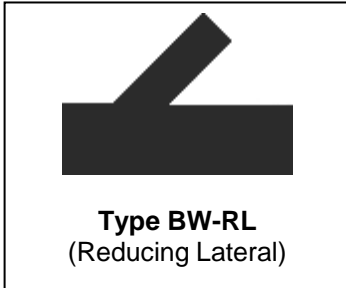
**Please quote the following items:**

LINE ITEM	QTY	USFI PART NO. OR DESCRIPTION	SPECIAL REQUIREMENTS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

**MESSAGE:**



## LATERALS AND TRUE WYES



USFI Laterals and True Wyes are As Welded Fabricated Fittings.

Laterals and True Wyes are not the same fitting. A 45° Lateral is a two piece fabrication with a 45° outlet (branch) welded to a horizontal body (run). A 90° True Wye is a three piece fabrication with a 90° included angle between the two ears. Both 45° Laterals and 90° True Wyes can be fabricated in reducing sizes.

**Materials** - Carbon Steel: A 106 Grade B Seamless, P-11 and P-22  
Stainless Steel: 304/L, 316/L, A 312 Welded or Seamless Other Alloys are available upon request.

**Sizes** - 1/2" thru 24"

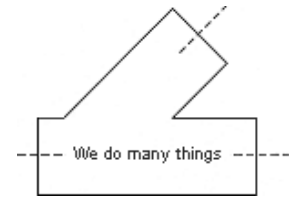
**Schedules** - Carbon Steel: All Schedules  
Stainless Steel: Schedules 5 thru 160

**End Prep** - Beveled Ends  
Squared Ends  
Flanged Ends  
Victaulic Grooves  
Threaded Ends (Male Only)

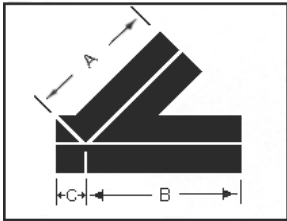
**Degrees** - Laterals: 30°, 45°, 60°  
True Wyes: 60°, 90°, 120°



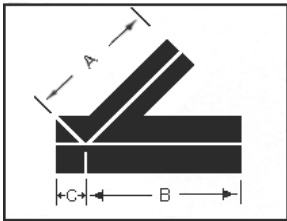
# UNITED STATES FITTINGS INC.



## LATERALS



Straight



Reducing

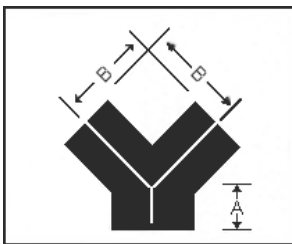
SCHEDULE 40 (STANDARD WALL)		
NOMINAL PIPE SIZE	DIMENSIONS	
	A AND B	C
1	5 3/4	1 3/4
1 1/4	6 1/4	1 3/4
1 1/2	7	2
2	8	2 1/2
2 1/2	9 1/2	2 1/2
3	10	3
3 1/2	11 1/2	3
4	12	3
5	13 1/2	3 1/2
6	14 1/2	3 1/2
8	17 1/2	4 1/2
10	20 1/2	5
12	24 1/2	5 1/2
14	27	6
16	30	6 1/2
18	32	7
20	35	8
24	40 1/2	9

SCHEDULE 80 (EXTRA STRONG)		
NOMINAL PIPE SIZE	DIMENSIONS	
	A AND B	C
1	6 1/2	2
1 1/4	7 1/4	2 1/4
1 1/2	8 1/2	2 1/2
2	9	2 1/2
2 1/2	10 1/2	2 1/2
3	11	3
3 1/2	12 1/2	3
4	13 1/2	3
5	15	3 1/2
6	17 1/2	4
8	20 1/2	5
10	24	5 1/2
12	27 1/2	6
14	31	6 1/2
16	34 1/2	7 1/2
18	37 1/2	8
20	40 1/2	8 1/2
24	47 1/2	10

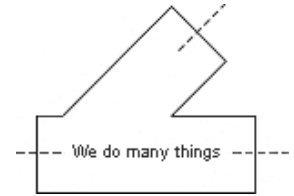
SCHEDULE 160 (DOUBLE EXTRA STRONG)		
NOMINAL PIPE SIZE	DIMENSIONS	
	A AND B	C
1	6 1/2	2
1 1/4	7 1/4	2 1/4
1 1/2	8 1/2	2 1/2
2	9	2 1/2
2 1/2	10 1/2	2 1/2
3	11	3
3 1/2	-	-
4	13 1/2	3
5	15	3 1/2
6	17 1/2	4
8	20 1/2	5
10	24	5 1/2
12	27 1/2	6
14	31	6 1/2
16	34 1/2	7 1/2
18	37 1/2	8
20	40 1/2	8 1/2
24	47 1/2	10

## TRUE WYES

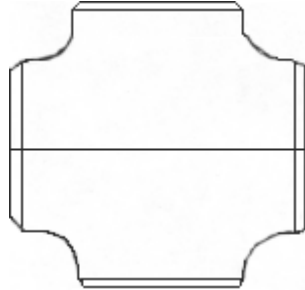
Standard and Extra Heavy



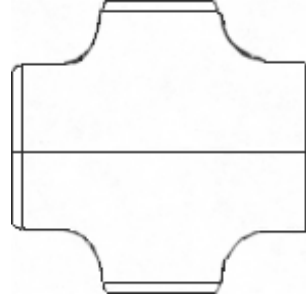
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	DIMENSIONS	
		A	B
3	3 1/2	3	5 1/2
4	4 1/2	3	6 1/2
6	6 5/8	3 1/2	8
8	8 5/8	4 1/2	9
10	10 3/4	5	11
12	12 3/4	5 1/2	12
14	14	6	14
16	16	6 1/2	15
18	18	7	16 1/2
20	20	8	18
24	24	9	22
30	30	10	25
36	36	11	28



## CARBON STEEL BUTT WELD CROSSES



**BWC**

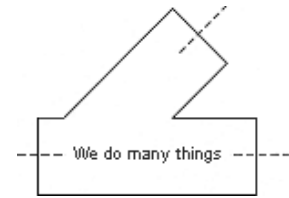


**RBWC**

United States Fittings, Inc. currently manufactures carbon steel butt weld crosses exclusively from A234-WPB tees. Crosses can be ordered to meet A-234 or A-234 WPBX (weld on tangent is X-rayed). Material test reports can be sent with all orders when asked for at time of order no charge. Commercial grade crosses are not X-rayed. X-rayed crosses are A-234 WPBX only.

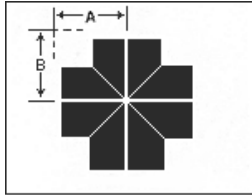


# UNITED STATES FITTINGS INC.

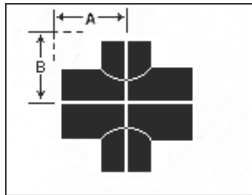


## CROSSES

Standard and Extra Heavy



Straight

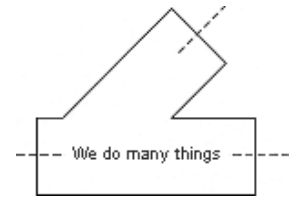


Reducing

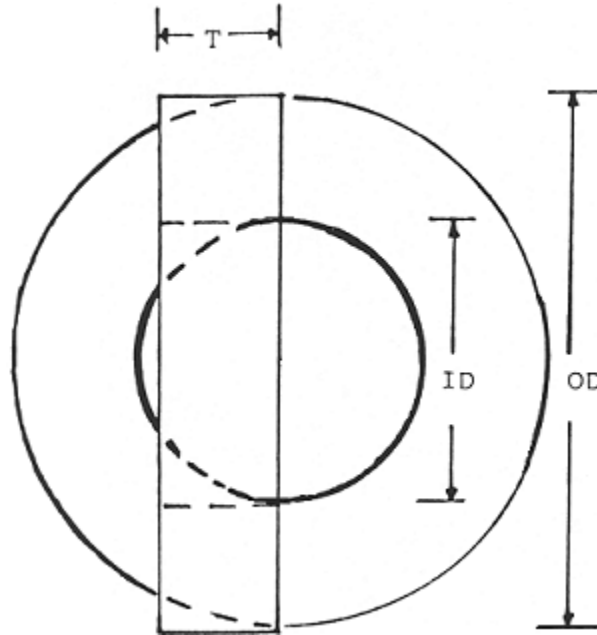
**TEE DIMENSIONS  
AVAILABLE UPON  
REQUEST**

NOMINAL PIPE SIZE		DIMENSIONS CENTER TO END	
RUN	BRANCH	OF RUN A	OF BRANCH B
1 1/4	1 1/4	1 7/8	1 7/8
	1	1 7/8	1 7/8
	3/4	1 7/8	1 7/8
1 1/2	1 1/2	2 1/4	2 1/4
	1 1/4	2 1/4	2 1/4
	1	2 1/4	2 1/4
	3/4	2 1/4	2 1/4
2	2	2 1/2	2 1/2
	1 1/2	2 1/2	2 3/8
	1 1/4	2 1/2	2 1/4
	1	2 1/2	2
2 1/2	2 1/2	3	3
	2	3	2 3/4
	1 1/2	3	2 5/8
	1 1/4	3	2 1/2
3	3	3 3/8	3 3/8
	2 1/2	3 3/8	3 1/4
	2	3 3/8	3
	1 1/2	3 3/8	2 7/8
3 1/2	1 1/4	3 3/8	2 3/4
	1	3 3/8	2 5/8
	3 1/2	3 3/4	3 3/4
	3	3 3/4	3 5/8
	2 1/2	3 3/4	3 1/2
4	2	3 3/4	3 1/4
	1 1/2	3 3/4	3 1/8
	4	4 1/8	4 1/8
	3 1/2	4 1/8	4
	3	4 1/8	3 7/8
	2 1/2	4 1/8	3 3/4
5	2	4 1/8	3 1/2
	1 1/2	4 1/8	3 3/8
	5	4 7/8	4 7/8
	4	4 7/8	4 5/8
	3 1/2	4 7/8	4 1/2
6	3	4 7/8	4 3/8
	2 1/2	4 7/8	4 1/4
	2	4 7/8	4 1/8
	6	5 5/8	5 5/8
	5	5 5/8	5 3/8
6	4	5 5/8	5 1/8
	3 1/2	5 5/8	5
	3	5 5/8	4 7/8
	2 1/2	5 5/8	4 3/4

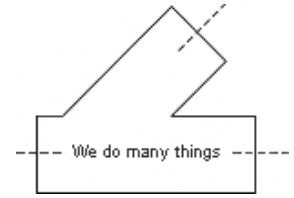
NOMINAL PIPE SIZE		DIMENSIONS CENTER TO END	
RUN	BRANCH	OF RUN A	OF BRANCH B
8	8	7	7
	6	7	6 5/8
	5	7	6 3/8
	4	7	6 1/8
	3 1/2	7	6
10	3	7	6
	10	8 1/2	8 1/2
	8	8 1/2	8
	6	8 1/2	7 5/8
	5	8 1/2	7 1/2
12	4	8 1/2	7 1/4
	12	10	10
	10	10	9 1/2
	8	10	9
	6	10	8 5/8
14	5	10	8 1/2
	14	11	11
	12	11	10 5/8
	10	11	10 1/8
	8	11	9 3/4
16	6	11	9 3/8
	16	12	12
	14	12	12
	12	12	11 5/8
	10	12	11 1/8
18	8	12	10 3/4
	6	12	10 3/8
	18	13 1/2	13 1/2
	16	13 1/2	13
	14	13 1/2	13
20	12	13 1/2	12 5/8
	10	13 1/2	12 1/8
	8	13 1/2	11 3/4
	20	15	15
	18	15	14 1/2
24	16	15	14
	12	15	13 5/8
	10	15	13 1/8
	8	15	12 3/4
	24	17	17
24	20	17	17
	18	17	16 1/2
	16	17	16
	14	17	16
	12	17	15 5/8
10	17	15 1/8	



## WAFER SPACER



- The “**Wafer Spacer**” and the “**Wafer Buddy**” are spacers used to fill the void in a piping system created when butterfly valves are replacing flanged gate valves.
- Manufactured to meet the close tolerances required in the wafer valve industry.
- Normal shipping schedules do not exceed one week after receipt of order.
- Available in carbon steel or stainless steel.
- Standard or special facing must be specified at time of order.
- When ordering specify OD, ID and thickness T.
- All sales are final - no returns.
- Terms are net 30 days. F.O.B. is Bedford, Ohio.

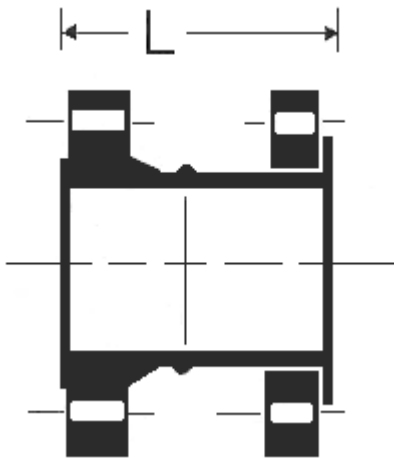


## WAFER BUDDY

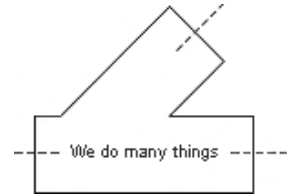
The “**Wafer Buddy**” has been designed to fill the space in an existing piping system created when a flanged valve has been removed for repair or wafer style valves are going to be used to replace flanged valves. Available in sizes 1” thru 24” the “**Wafer Buddy**” is manufactured from Carbon Steel and Stainless Steel components with 150# and 300# flanges standard.

All welding is done by our Code Welders at our Bedford, Ohio facility with full Material Tests Reports available upon request. Should any unit require X-ray this extra is available on both Carbon and Stainless Steel units with the costs of Certificates of X-ray included in the X-ray extra.

No longer should there be concern with the high costs of piping changes when considering use of Wafer style valves to replace flanged valves, the “**Wafer Buddy**” is a low cost efficient way to accomplish this.



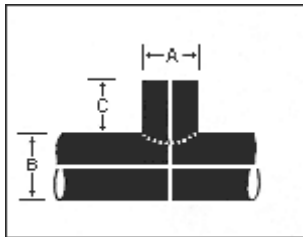
When ordering a “**Wafer Buddy**” specify the length required, the pipe size, and the flange rating (150# or 300#).



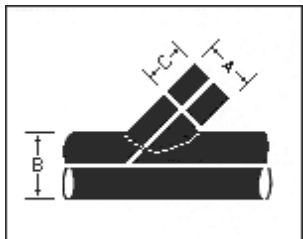
## SHAPED NIPPLES

### SHAPED NIPPLES

Standard and Extra Heavy

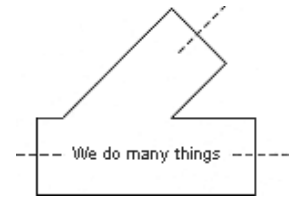


90°



45°

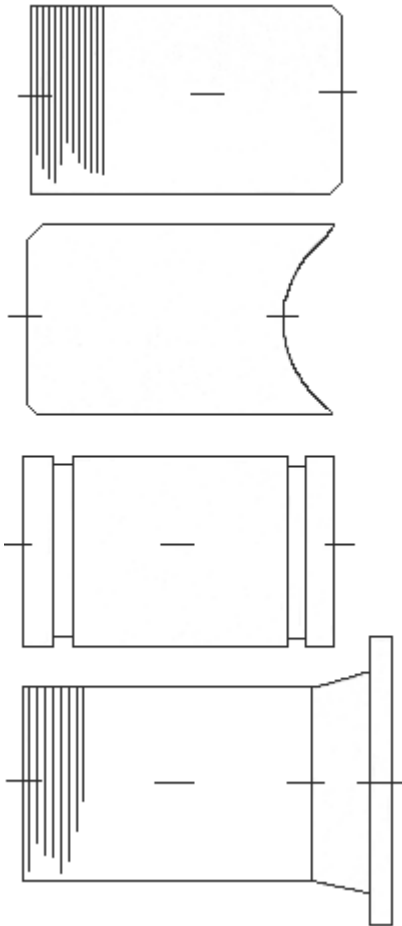
NOMINAL BRANCH (OUTLET) SIZE (A)	DIMENSIONS	
	EXISTING HEADER SIZE (B)	LENGTH (C)
1/2	1/2-36	3
3/4	3/4-36	3
1	1-36	3
1 1/4	1 1/4-36	3
1 1/2	1 1/2-36	3
2	2-36	3
2 1/2	2 1/2-36	3
3	3-36	3
3 1/2	3 1/2-36	3
4	4-36	4
5	5-36	4
6	6-36	4
8	8-36	4
10	10-36	5
12	12-36	5
14	14-36	6
16	16-72	6
18	18-72	6
20	20-72	6
22	22-72	6
24	24-72	6



## ADAPTOR NIPPLES

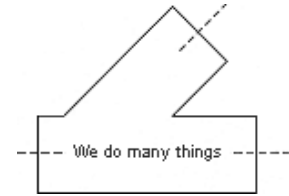
We manufacture a full line of **ADAPTOR NIPPLES**. All pipe schedules and end configurations can be manufactured based upon customer needs.

Carbon Steel, Aluminum, Stainless Steel, Chrome-Moly etc. are manufactured by United States Fittings, Inc. on a regular basis. Large runs or small run "**specials**" are done efficiently and rapidly to fill your customers needs.

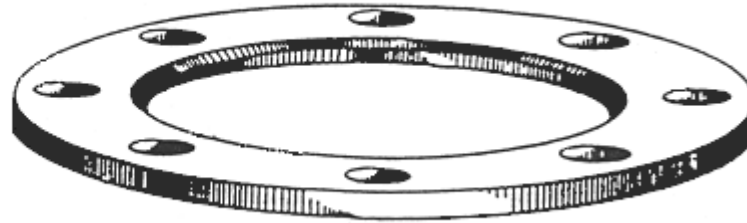
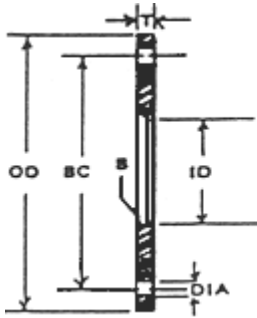




UNITED STATES FITTINGS INC.



## LIGHTWEIGHT DUCTILE IRON BACK-UP FLANGES



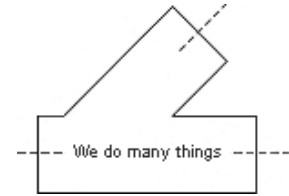
For Use With Stub Ends

ASTM A-536-80  
ANSI B16.5

SPEC SHEET  
50000 SERIES

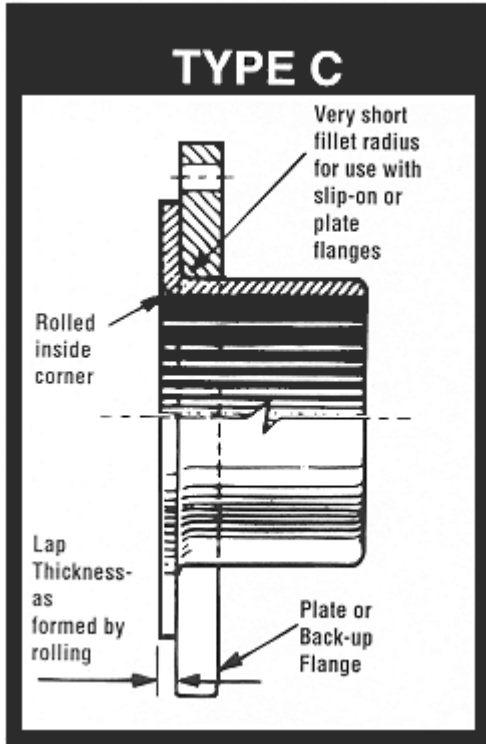
GRADE 80-55-06  
150 LB DRILLING

Part No.	Nominal Pipe Size	Inside Diameter ID	Outside Diameter OD	Thickness T	Bolt Circle BC	Bolt Hole Diameter	Bevel B 45	Bolts Size	Bolts No.	Approx. Weight
50050	1/2	.900	3 1/2	7/16	2 3/8	5/8	3/16	1/2	4	1.0
50075	3/4	1.110	3 7/8	1/2	2 3/4	5/8	3/16	1/2	4	1.3
50100	1	1.380	4 1/4	1/2	3 1/8	5/8	3/16	1/2	4	1.7
50125	1 1/4	1.720	4 5/8	1/2	3 1/2	5/8	3/16	1/2	4	2.0
50150	1 1/2	1.970	5	1/2	3 7/8	5/8	3/16	1/2	4	2.1
50200	2	2.437	6	1/2	4 3/4	3/4	1/4	5/8	4	3.0
50250	2 1/2	2.940	7	1/2	5 1/2	3/4	1/4	5/8	4	4.0
50300	3	3.563	7 1/2	1/2	6	3/4	1/4	5/8	4	4.3
50400	4	4.563	9	9/16	7 1/2	3/4	1/4	5/8	8	6.5
50500	5	5.625	10	5/8	8 1/2	7/8	1/4	3/4	8	7.4
50600	6	6.750	11	5/8	9 1/2	7/8	1/4	3/4	8	9.0
50800	8	8.750	13 1/2	5/8	11 3/4	7/8	5/16	3/4	8	12.5
51000	10	10.875	16	5/8	14 1/4	1	5/16	7/8	12	15.6
51200	12	12.875	19	3/4	17	1	5/16	7/8	12	27.0
51400	14	14.187	21	3/4	18 3/4	1 1/8	5/16	1	12	32.0
51600	16	16.187	23 1/2	3/4	21 1/4	1 1/8	3/8	1	16	40.0
51800	18	18.187	25	7/8	22 3/4	1 1/4	3/8	1 1/8	16	45.0
52000	20	20.250	27 1/2	7/8	25	1 1/4	3/8	1 1/8	20	53.0
52400	24	24.250	32	1	29 1/2	1 3/8	3/8	1 1/4	20	78.0
53000	30	30.375	38 3/4	1	36	1 3/8	1/2	1 1/4	28	105.0
53600	36	36.500	46	1 1/8	42 3/4	1 5/8	1/2	1 1/2	32	160.0



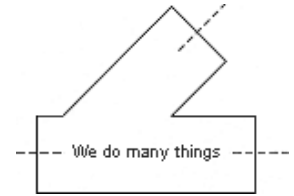
## STUB ENDS - STAINLESS STEEL

### Schedules 5 and 10 MSS Type "C" Stainless Steel Stub Ends

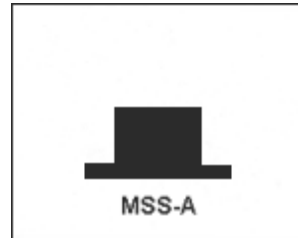
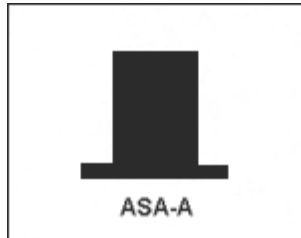


Weight Chart for Type "C" Stub Ends Schedule 10 (in pounds)	
1/2"	0.14
3/4"	0.18
1"	0.29
1-1/4"	0.40
1-1/2"	0.49
2"	0.74
2-1/2"	0.99
3"	1.26
4"	1.90
5"	2.73
6"	3.62
8"	5.89
10"	9.78
12"	14.67
14"	17.24
16"	19.73
18"	22.23

- Schedule 10 Carbon Steel MSS "C" Stub Ends 2" through 8" are also available.
- Both SS and CS Schedule 10 MSS "C" Stub Ends can have a serrated face at a small extra charge.



## STUB ENDS - CARBON STEEL



Carbon Steel Stub Ends are manufactured in all standard wall thicknesses. Normal production items are manufactured in ASA-A (Long Pattern) in Standard and Extra Heavy wall thickness. MSS-A (Short Pattern) Stub Ends are also available in carbon steel in all wall thicknesses. Both ASA-A and MSS-A patterns are used with lap joint flanges.

**Materials** - Carbon Steel: A 106 Grade B Seamless

**Sizes** - 1/2" thru 24"

**Schedules** - All Schedules

**End Prep**

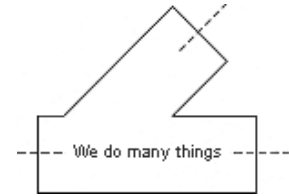
- Beveled Ends
- Squared Ends
- Flanged Ends
- Victaulic Grooves
- Threaded Ends (Male Only)

**Lengths**

- ASA-A Standard
- MSS-A and other special lengths available

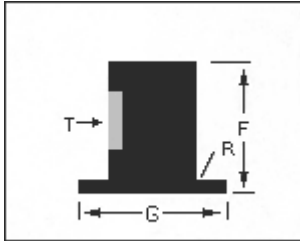


UNITED STATES FITTINGS INC.

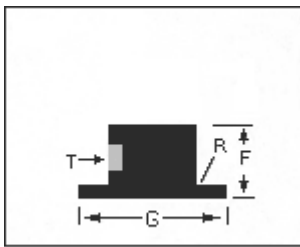


# LAP JOINT STUB ENDS

Carbon Steel  
ASA B16.9 ASTM A234 WPB



ASA-A



MSS-A

## STANDARD

NOMINAL PIPE SIZE	DIMENSIONS COMMON TO FITTINGS & PIPE				LAP JOINT STUD ENDS			
	PIPE SCHED. NO.	OUTSIDE DIA. O.D.	INSIDE DIA. I.D.	WALL THICK- NESS T	DIA. OF LAP G	RADIUS R	LENGTH F	
							ASA-A	MSS-A
1/2	40	.840	.622	.109	1 3/8	1/8	3	2
3/4	40	1.050	.824	.113	1 11/16	1/8	3	2
1	40	1.315	1.049	.133	2	1/8	4	2
1 1/4	40	1.660	1.380	.140	2 1/2	3/16	4	2
1 1/2	40	1.900	1.610	.145	2 7/8	1/4	4	2
2	40	2.375	2.067	.154	3 5/8	5/16	6	2 1/2
2 1/2	40	2.875	2.469	.203	4 1/8	5/16	6	2 1/2
3	40	3.500	3.068	.216	5	3/8	6	2 1/2
3 1/2	40	4.000	3.548	.226	5 1/2	3/8	6	3
4	40	4.500	4.026	.237	6 3/16	7/16	6	3
5	40	5.563	5.047	.258	7 5/16	7/16	8	3
6	40	6.625	6.065	.280	8 1/2	1/2	8	3 1/2
8	40	8.625	7.981	.322	10 5/8	1/2	8	4
10	40	10.750	10.020	.365	12 3/4	1/2	10	5
12	*	12.750	12.000	.375	15	1/2	10	6
14	30	14.000	13.250	.375	16 1/4	1/2	12	6
16	30	16.000	15.250	.375	18 1/2	1/2	12	6
18	*	18.000	17.250	.375	21	1/2	12	6
20	20	20.000	19.250	.375	23	1/2	12	6
24	20	24.000	23.250	.375	27 1/4	1/2	12	6

## EXTRA HEAVY

NOMINAL PIPE SIZE	DIMENSIONS COMMON TO FITTINGS & PIPE				LAP JOINT STUD ENDS			
	PIPE SCHED. NO.	OUTSIDE DIA. O.D.	INSIDE DIA. I.D.	WALL THICK- NESS T	DIA. OF LAP G	RADIUS R	LENGTH F	
							ASA-A	MSS-A
1/2	80	.840	.546	.147	1 3/8	1/8	3	2
3/4	80	1.050	.742	.154	1 11/16	1/8	3	2
1	80	1.315	.957	.179	2	1/8	4	2
1 1/4	80	1.660	1.278	.191	2 1/2	3/16	4	2
1 1/2	80	1.900	1.500	.200	2 7/8	1/4	4	2
2	80	2.375	1.939	.218	3 5/8	5/16	6	2 1/2
2 1/2	80	2.875	2.323	.276	4 1/8	5/16	6	2 1/2
3	80	3.500	2.900	.300	5	3/8	6	2 1/2
3 1/2	80	4.000	3.364	.318	5 1/2	3/8	6	3
4	80	4.500	3.826	.337	6 3/16	7/16	6	3
5	80	5.563	4.813	.375	7 5/16	7/16	8	3
6	80	6.625	5.761	.432	8 1/2	1/2	8	3 1/2
8	80	8.625	7.625	.500	10 5/8	1/2	8	4
10	60	10.750	9.750	.500	12 3/4	1/2	10	5
12	*	12.750	11.750	.500	15	1/2	10	6
14	*	14.000	13.000	.500	16 1/4	1/2	12	6
16	40	16.000	15.000	.500	18 1/2	1/2	12	6
18	*	18.000	17.000	.500	21	1/2	12	6
20	30	20.000	19.000	.500	23	1/2	12	6
24	*	24.000	23.000	.500	27 1/4	1/2	12	6