

FORGED STEEL FITTINGS



As per ASME standard B16.11 -"Forged Fittings, Socket-Welding and Threaded" the below table shows the schedule of pipe corresponding to each class of fitting for rating purposes.

PRESSURE RATINGS		
Class	Schedule	
	N.P.T.	S.W.
2000	80	-
3000	160	80
6000	XXS/XXH	-



Specification:

FORGED STEEL FITTINGS & UNIONS

- The material for Forged Carbon Steel Fittings conforms to the requirements of ASTM/ASME A105/SA105
- Forged Carbon Steel Fittings Design/Dimensions conform to ASME B16.11. Contact UVI for exact dimensional information.
- NPT threads on forged carbon steel fittings conform to ANSI/ASME B1.20.1
- Forged carbon steel socket weld inserts conform to MSS-SP-79
- Forged carbon steel unions conform to MSS-SP-83
- Forged carbon steel outlet fittings conform to MSS-SP-97

2,000 PSI

- 90° Elbow
- 45° Elbow
- Tee

3,000 PSI / SW

- 90° Elbow / SW
- 45° Elbow / SW
- Tee / SW
- Coupling / SW
- Union / SW
- Cap / SW
- Cross / SW

3,000 PSI

- 90° Elbow
- 45° Elbow
- Tee
- Coupling
- Union
- Hex Plug
- Reducing Tee
- 90° Street Elbow
- Cap
- Half Coupling
- Hex Bushing
- Cross

6,000 PSI

- 90° Elbow
- Tee
- Coupling
- Half Coupling
- Cross
- TOE Coupling

ENGINEER APPROVAL

JOB: _____ DATE: ___/___/___

MEETS DIMENSIONAL SPECIFICATIONS: YES NO

MEETS MATERIAL SPECIFICATIONS: YES NO

MEETS PRESSURE / TEMPERATURE SPECIFICATIONS: YES NO

NOTES: _____

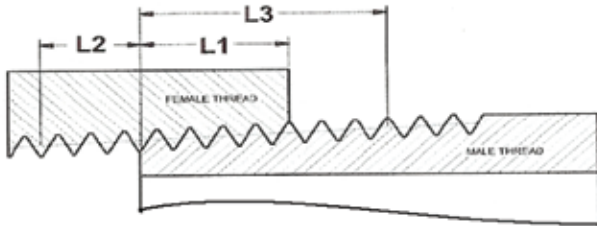
ENGINEER NAME: _____

ENGINEER SIGNATURE: _____

* Due to the continuous development of our products, design or construction may change without prior notice.

FORGED STEEL FITTINGS

TECHNICAL DATA THREADED FITTINGS



PIPE THREADS AS PER ASME B1.20.1

NOM SIZE	THREADS PER INCH	(L1) HANDTIGHT ENGAGEMENT (IN)	(L2) WRENCH TIGHT ENGAGEMENT (IN)	(L3) TOTAL ENGAGEMENT (IN)
3/8	18	0.2400	0.1678	0.4078
1/2	14	0.3200	0.2137	0.5337
3/4	14	0.3390	0.2067	0.5457
1	11 1/2	0.4000	0.2828	0.6828
1 1/4	11 1/2	0.4200	0.2868	0.7068
1 1/2	11 1/2	0.4200	0.3035	0.7235
2	11 1/2	0.4360	0.3205	0.7565
2 1/2	8	0.6820	0.4555	1.1375
3	8	0.7660	0.4340	1.2000
4	8	0.8440	0.4560	1.3000

INSTALLATION INSTRUCTIONS:

THREAD INSPECTION:

Prior to installing any threaded fitting always inspect the threads to be sure that:

- There is no dirt or debris in the threads and the thread length is correct

APPLICATION OF PIPE SEALANT:

- Use a pipe sealant that is fast drying, sets up semi-hard and is vibration resistant
- For outlets 1/2" to 1" an anaerobic pipe sealant is recommended
- Thread tape containing Teflon* may also be used

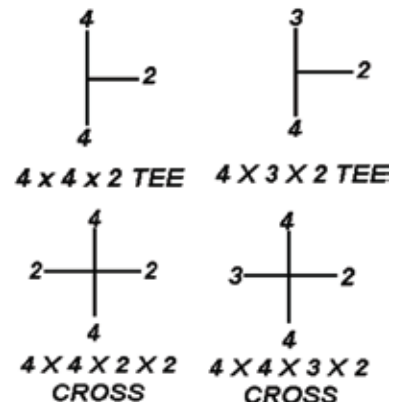
TIGHTENING OF BRANCH PIPE:

- For outlet sizes up to 4" , wrench tighten three full turns past hand tight

*Teflon is a registered trademark of Dupont

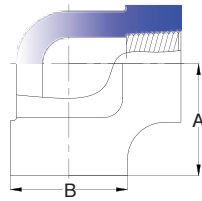
SCHEDULE 80 & XXH PIPE DIMENSIONS		
NOM SIZE	OUTSIDE DIAMETER	
	ACTUAL O.D. (IN)	TOLERANCE (IN)
1/2"	0.840	
3/4"	1.050	+0.010 / -0.01
1"	1.315	+0.013 / -0.013
1 1/4"	1.660	+0.016 / -0.016
1 1/2"	1.900	+0.019 / -0.019
2"	2.375	+0.024 / -0.024
2 1/2"	2.875	+0.029 / -0.024
3"	3.500	+0.034 / -0.031
4"	4.500	+0.045 / -0.031
5"	5.563	+0.056 / -0.031
6"	6.625	+0.063 / -0.031
8"	8.625	+0.063 / -0.031
10"	10.750	+0.063 / -0.031
12"	12.750	+0.063 / -0.031

IDENTIFICATION OF REDUCING FITTINGS



FORGED STEEL FITTINGS

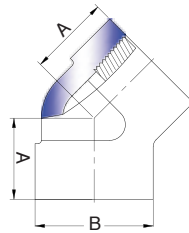
90° Elbow



2,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT2E02	¼	0.81	0.88	160	0.20	
FFT2E03	⅜	0.97	1.00	130	0.26	
FFT2E04	½	1.12	1.31	100	0.57	
FFT2E06	¾	1.31	1.5	75	0.71	
FFT2E10	1	1.5	1.81	40	1.08	
FFT2E12	1 ¼	1.75	2.19	25	1.68	
FFT2E14	1 ½	2.00	2.44	18	2.38	
FFT2E20	2	2.38	2.97	10	3.55	
FFT2E24	2 ½	3.00	3.62	4	6.22	
FFT2E30	3	3.38	4.31	2	10.36	
FFT2E40	4	4.19	5.75	1	23.91	

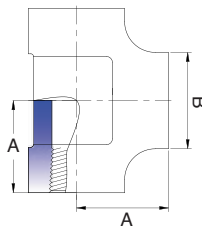
45° Elbow



2,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT2F02	¼	0.69	0.88	160	0.20	
FFT2F03	⅜	0.75	1.00	130	0.26	
FFT2F04	½	0.88	1.31	100	0.44	
FFT2F06	¾	1.00	1.5	75	0.57	
FFT2F10	1	1.12	1.81	50	0.79	
FFT2F12	1 ¼	1.31	2.19	25	1.32	
FFT2F14	1 ½	1.38	2.44	20	1.54	
FFT2F20	2	1.69	2.97	10	2.53	
FFT2F30	3	2.50	4.31	3	7.16	
FFT2F40	4	3.12	5.75	1	22.48	

Tee

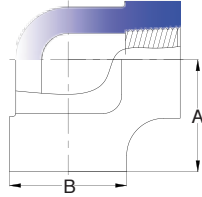


2,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT2T02	¼	0.81	0.88	150	0.42	
FFT2T03	⅜	0.97	1.00	120	0.84	
FFT2T04	½	1.12	1.31	80	1.19	
FFT2T06	¾	1.31	1.50	50	1.81	
FFT2T10	1	1.50	1.81	32	3.02	
FFT2T12	1 ¼	1.75	2.19	20	3.61	
FFT2T14	1 ½	2.00	2.44	14	6.83	
FFT2T20	2	2.38	2.97	8	7.16	
FFT2T24	2 ½	3.00	3.62	3	14.88	
FFT2T30	3	3.38	4.31	2	21.64	
FFT2T40	4	4.19	5.75	1	38.20	

FORGED STEEL FITTINGS

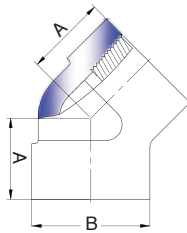
90° Elbow



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3E01	1/8	0.81	0.88	160	0.31	
FFT3E02	1/4	0.97	1.00	130	0.31	
FFT3E03	3/8	1.12	1.31	90	0.64	
FFT3E04	1/2	1.31	1.5	50	0.90	
FFT3E06	3/4	1.50	1.81	32	1.50	
FFT3E10	1	1.75	2.19	20	2.31	
FFT3E12	1 1/4	2.00	2.44	18	2.87	
FFT3E14	1 1/2	2.38	2.97	8	5.40	
FFT3E20	2	2.50	3.31	6	5.60	
FFT3E24	2 1/2	3.25	4.00	2	11.77	
FFT3E30	3	3.75	4.75	2	17.35	
FFT3E40	4	4.50	6.00	1	30.81	

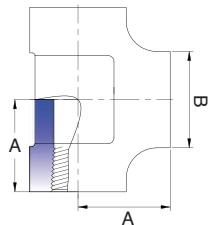
45° Elbow



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3F02	1/4	0.75	1.00	130	0.31	
FFT3F03	3/8	0.88	1.31	90	0.62	
FFT3F04	1/2	1.00	1.5	70	0.75	
FFT3F06	3/4	1.12	1.81	40	1.08	
FFT3F10	1	1.31	2.19	25	1.94	
FFT3F12	1 1/4	1.38	2.44	18	2.03	
FFT3F14	1 1/2	1.69	2.97	10	3.83	
FFT3F20	2	1.72	3.31	6	4.23	
FFT3F24	2 1/2	2.06	4.00	3	10.42	
FFT3F30	3	2.50	4.75	2	16.20	
FFT3F40	4	3.12	6.00	1	33.06	

Tee Elbow

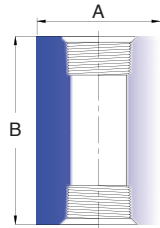


3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3T01	1/8	0.81	0.88	120	0.40	
FFT3T02	1/4	0.97	1.00	100	0.42	
FFT3T03	3/8	1.12	1.31	90	0.84	
FFT3T04	1/2	1.31	1.50	40	1.19	
FFT3T06	3/4	1.50	1.81	32	1.81	
FFT3T10	1	1.75	2.19	15	3.02	
FFT3T12	1 1/4	2.00	2.44	12	3.61	
FFT3T14	1 1/2	2.38	2.97	6	6.83	
FFT3T20	2	2.50	3.31	5	7.16	
FFT3T24	2 1/2	3.25	4.00	2	14.88	
FFT3T30	3	3.75	4.75	1	21.64	
FFT3T40	4	4.50	6.00	1	38.20	

FORGED STEEL FITTINGS

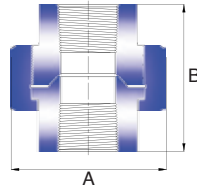
Coupling



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3CP01	1/8	0.62	1.25	400	0.09	
FFT3CP02	1/4	0.75	1.38	300	0.11	
FFT3CP03	3/8	0.88	1.50	250	0.13	
FFT3CP04	1/2	1.12	1.88	180	0.31	
FFT3CP06	3/4	1.33	2.00	100	0.44	
FFT3CP10	1	1.75	2.38	50	0.82	
FFT3CP12	1 1/4	2.25	2.62	25	1.56	
FFT3CP14	1 1/2	2.5	3.12	18	2.27	
FFT3CP20	2	3.00	3.38	12	3.00	
FFT3CP24	2 1/2	3.62	3.62	6	4.72	
FFT3CP30	3	4.25	4.25	3	6.94	
FFT3CP40	4	5.50	4.75	2	13.05	

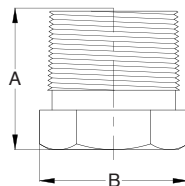
Union



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3U02	1/4	1.48	1.66	90	0.22	
FFT3U03	3/8	1.66	1.83	75	0.37	
FFT3U04	1/2	1.93	2.00	60	0.64	
FFT3U06	3/4	2.38	2.31	36	1.06	
FFT3U10	1	2.78	2.42	24	1.59	
FFT3U12	1 1/4	3.35	2.86	12	2.47	
FFT3U14	1 1/2	3.70	3.00	10	3.15	
FFT3U20	2	4.42	3.50	5	4.85	
FFT3U24	2 1/2	5.22	4.25	3	14.79	
FFT3U30	3	6.15	4.42	2	11.92	
FFT3U40	4	7.76	5.01	1	26.45	

Hex Plug



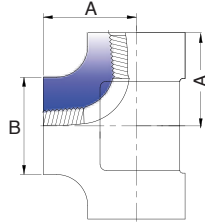
2,000, 3,000 & 6,000 PSI

Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3HP01	1/8	0.63	0.44	500	0.02	
FFT3HP02	1/4	0.69	0.62	400	0.04	
FFT3HP03	3/8	0.81	0.69	350	0.11	
FFT3HP04	1/2	0.87	0.88	250	0.13	
FFT3HP06	3/4	1.00	1.06	200	0.31	
FFT3HP10	1	1.13	1.38	100	0.44	
FFT3HP12	1 1/4	1.37	1.75	60	0.90	
FFT3HP14	1 1/2	1.43	2.00	50	1.21	
FFT3HP20	2	1.57	2.50	25	2.09	
FFT3HP24	2 1/2	1.81	3.00	12	3.92	
FFT3HP30	3	1.93	3.50	8	6.06	
FFT3HP40	4	2.25	4.62	4	13.66	

FORGED STEEL FITTINGS

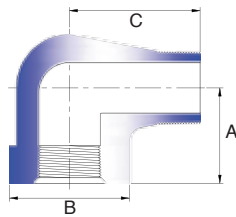
Reducing Tee



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3RT0403	1/2 x 3/8	1.50	1.81	35	1.19	
FFT3RT0604	3/4 x 1/2	1.50	1.81	20	1.81	
FFT3RT060404	3/4 x 1/2 x 1/2	1.50	1.81	20	1.81	
FFT3RT1004	1 x 1/2	1.75	2.19	15	3.02	
FFT3RT1006	1 x 3/4	1.75	2.19	15	3.02	
FFT3RT1404	1 1/2 x 1/2	2.38	2.97	5	6.83	
FFT3RT1406	1 1/2 x 3/4	2.38	2.97	5	6.83	
FFT3RT1410	1 1/2 x 1	2.38	2.97	5	6.83	
FFT3RT2010	2 x 1	2.50	3.31	4	7.16	
FFT3RT2014	2 x 1 1/2	2.50	3.31	4	7.16	

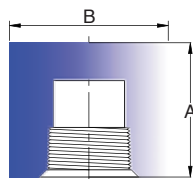
90° Street Elbow



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	C	QTY	WEIGHT	LIST PRICE
FFT3SE02	1/4	0.97	1.00	1.25	130	0.31	
FFT3SE03	3/8	1.12	1.31	1.50	80	0.64	
FFT3SE04	1/2	1.31	1.50	1.69	62	0.90	
FFT3SE06	3/4	1.50	1.81	1.94	40	1.50	
FFT3SE10	1	1.75	2.19	2.31	20	2.31	
FFT3SE12	1 1/4	2.00	2.44	2.69	18	2.87	
FFT3SE14	1 1/2	2.38	2.97	2.81	8	5.40	
FFT3SE20	2	2.50	3.31	3.38	5	5.60	

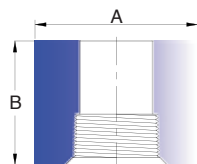
Cap



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3C02	1/4	1.00	0.75	300	0.09	
FFT3C04	1/2	1.25	1.12	250	0.26	
FFT3C06	3/4	1.44	1.33	100	0.35	
FFT3C10	1	1.62	1.75	67	0.62	
FFT3C14	1 1/2	1.75	2.50	33	1.59	
FFT3C20	2	1.88	3.00	17	2.27	
FFT3C24	2 1/2	2.38	3.62	10	4.21	
FFT3C30	3	2.56	4.25	6	7.34	
FFT3C40	4	2.69	5.50	4	14.15	

Half Coupling

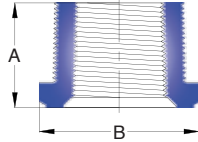


3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3HC04	1/2	1.12	0.94	200	0.07	
FFT3HC05	3/4	1.33	1.00	120	0.22	
FFT3HC10	1	1.75	1.17	80	0.48	
FFT3HC20	2	3.00	1.67	20	1.81	
FFT3HC30	3	4.25	2.12	6	3.70	
FFT3HC40	4	5.50	2.37	5	6.80	

FORGED STEEL FITTINGS

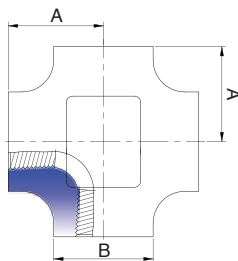
Hex Bushing



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3HB0201	¼ X ⅛	0.56	0.62	600	0.09	
FFT3HB0302	⅜ X ¼	0.66	0.69	500	0.11	
FFT3HB0401	½ X ⅛	0.75	0.88	400	0.20	
FFT3HB0402	½ X ¼	0.75	0.88	400	0.20	
FFT3HB0403	½ X ⅜	0.75	0.88	400	0.20	
FFT3HB0602	¾ X ¼	0.84	1.06	200	0.33	
FFT3HB0603	¾ X ⅜	0.84	1.06	200	0.33	
FFT3HB0604	¾ X ½	0.84	1.06	200	0.33	
FFT3HB1002	1 X ¼	1.00	1.38	100	1.04	
FFT3HB1003	1 X ⅜	1.00	1.38	100	1.04	
FFT3HB1004	1 X ½	1.00	1.38	100	1.04	
FFT3HB1006	1 X ¾	1.00	1.38	100	1.04	
FFT3HB1204	1 ¼ X ½	1.09	1.75	60	0.99	
FFT3HB1210	1 ¼ X 1	1.09	1.75	60	0.99	
FFT3HB1403	1 ½ X ⅜	1.12	2.00	50	1.15	
FFT3HB1404	1 ½ X ½	1.12	2.00	50	1.15	
FFT3HB1406	1 ½ X ¾	1.12	2.00	50	1.15	
FFT3HB1410	1 ½ X 1	1.12	2.00	50	1.15	
FFT3HB1412	1 ½ X 1 ¼	1.12	2.00	50	1.15	
FFT3HB2002	2 X ¼	1.22	2.50	25	4.25	
FFT3HB2004	2 X ½	1.22	2.50	25	4.25	
FFT3HB2006	2 X ¾	1.22	2.50	25	4.25	
FFT3HB2010	2 X 1	1.22	2.50	25	4.25	
FFT3HB2012	2 X 1 ¼	1.22	2.50	25	4.25	
FFT3HB2014	2 X 1 ½	1.22	2.50	25	4.25	
FFT3HB2420	2 ½ X 2	1.44	3.00	15	3.33	
FFT3HB3010	3 X 1	1.53	3.50	10	4.89	
FFT3HB3020	3 X 2	1.53	3.50	10	4.89	
FFT3HB3024	3 X 2 ½	1.53	3.50	10	4.89	
FFT3HB4020	4 X 2	1.75	4.62	5	8.82	
FFT3HB4030	4 X 3	1.75	4.62	5	8.82	

Cross

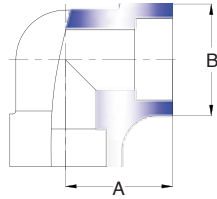


3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFT3CR02	¼	0.82	0.82	60	1.10	
FFT3CR03	⅜	0.91	0.91	60	1.00	
FFT3CR04	½	1.00	1.00	40	0.80	
FFT3CR06	¾	1.25	1.25	30	1.00	
FFT3CR10	1	1.38	1.38	20	1.60	
FFT3CR12	1 ¼	1.56	1.56	10	2.60	
FFT3CR14	1 ½	1.75	1.75	6	3.50	
FFT3CR20	2	2.12	2.12	4	5.10	
FFT3CR24	2 ½	2.24	2.24	3	13.30	
FFT3CR30	3	2.87	2.87	2	13.30	
FFT3CR40	4	3.37	3.37	1	39.00	

FORGED STEEL FITTINGS

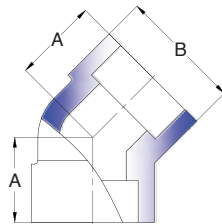
90° Elbow / Socket Weld



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3E02	¼	0.82	0.82	160	0.20	
FFSW3E03	⅜	0.91	0.98	130	0.29	
FFSW3E04	½	1.00	1.20	100	0.46	
FFSW3E06	¾	1.25	1.41	75	0.70	
FFSW3E10	1	1.38	1.74	40	1.12	
FFSW3E12	1 ¼	1.56	2.10	25	1.59	
FFSW3E14	1 ½	1.75	2.36	18	1.94	
FFSW3E20	2	2.12	2.89	10	3.00	
FFSW3E24	2 ½	2.24	3.54	4	5.66	
FFSW3E30	3	2.87	4.21	2	9.87	
FFSW3E40	4	3.37	5.30	1	16.93	

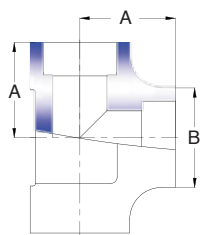
45° Elbow / Socket Weld



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3F02	¼	0.69	0.82	160	0.20	
FFSW3F03	⅜	0.69	0.98	130	0.24	
FFSW3F04	½	0.82	1.20	100	0.42	
FFSW3F06	¾	1.00	1.41	75	0.46	
FFSW3F10	1	1.06	1.74	50	0.86	
FFSW3F12	1 ¼	1.19	2.10	25	1.40	
FFSW3F14	1 ½	1.31	2.36	20	1.56	
FFSW3F20	2	1.62	2.89	10	2.78	
FFSW3F24	2 ½	1.74	3.54	5	6.00	
FFSW3F30	3	1.87	4.21	4	9.10	
FFSW3F40	4	2.37	5.30	2	28.00	

Tee / Socket Weld

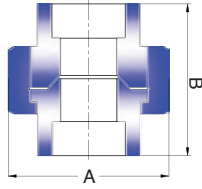


3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3T02	¼	0.82	0.82	150	0.35	
FFSW3T03	⅜	0.91	0.98	120	0.37	
FFSW3T04	½	1.00	1.20	90	0.53	
FFSW3T06	¾	1.25	1.41	50	0.93	
FFSW3T10	1	1.38	1.74	32	1.39	
FFSW3T12	1 ¼	1.56	2.10	20	2.18	
FFSW3T14	1 ½	1.75	2.36	15	2.58	
FFSW3T20	2	2.12	2.89	8	3.81	
FFSW3T24	2 ½	2.24	3.54	4	8.20	
FFSW3T30	3	2.87	4.21	2	12.63	
FFSW3T40	4	3.37	5.30	1	41.00	

FORGED STEEL FITTINGS

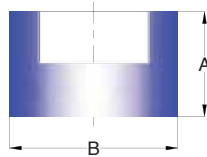
Union / Socket Weld



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3U02	¼	1.66	1.48	90	0.70	
FFSW3U03	⅜	1.83	1.66	75	0.86	
FFSW3U04	½	2.00	1.93	60	1.15	
FFSW3U06	¾	2.31	2.38	36	1.50	
FFSW3U10	1	2.42	2.78	24	1.72	
FFSW3U12	1 ¼	2.86	3.35	12	3.00	
FFSW3U14	1 ½	3.00	3.70	10	3.48	
FFSW3U20	2	3.50	4.42	5	5.20	
FFSW3U24	2 ½	4.25	5.22	3	9.63	
FFSW3U30	3	4.42	6.15	2	13.40	
FFSW3U40	4	5.22	7.19	1	29.00	

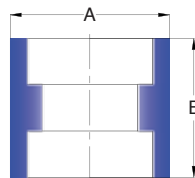
Cap / Socket Weld



3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3C02	¼	0.77	1.03	350	0.13	
FFSW3C04	½	0.90	1.27	300	0.18	
FFSW3C06	¾	1.02	1.50	250	0.26	
FFSW3C10	1	1.07	1.80	150	0.35	
FFSW3C12	1 ¼	1.22	2.23	100	1.00	
FFSW3C14	1 ½	1.29	2.55	50	1.20	
FFSW3C20	2	1.53	2.96	25	2.05	
FFSW3C24	2 ½	1.65	3.64	16	3.15	
FFSW3C30	3	1.77	4.27	12	5.09	
FFSW3C40	4	1.91	5.40	8	9.30	

Coupling / Socket Weld

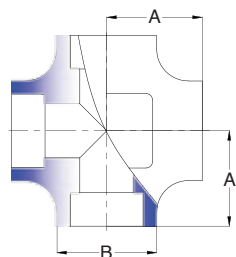


3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3T02	¼	0.82	0.82	150	0.35	
FFSW3T03	⅜	0.91	0.98	120	0.37	
FFSW3T04	½	1.00	1.20	90	0.53	
FFSW3T06	¾	1.25	1.41	50	0.93	
FFSW3T10	1	1.38	1.74	32	1.39	
FFSW3T12	1 ¼	1.56	2.10	20	2.18	
FFSW3T14	1 ½	1.75	2.36	15	2.58	
FFSW3T20	2	2.12	2.89	8	3.81	
FFSW3T24	2 ½	2.24	3.54	4	8.20	
FFSW3T30	3	2.87	4.21	2	12.63	
FFSW3T40	4	3.37	5.30	1	41.00	

FORGED STEEL FITTINGS

Cross / Socket Weld

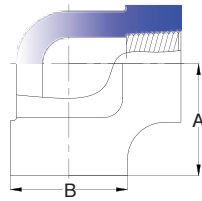


3,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT	LIST PRICE
FFSW3CR02	¼	0.82	0.82	80	0.42	
FFSW3CR03	⅜	0.91	0.91	60	0.60	
FFSW3CR04	½	1.00	1.00	50	0.86	
FFSW3CR06	¾	1.25	1.25	33	1.23	
FFSW3CR10	1	1.38	1.38	20	1.85	
FFSW3CR12	1 ¼	1.56	1.56	13	2.71	
FFSW3CR14	1 ½	1.75	1.75	10	3.66	
FFSW3CR20	2	2.12	2.12	5	5.60	
FFSW3CR24	2 ½	2.24	2.24	2	11.24	
FFSW3CR30	3	2.87	2.87	1	17.75	
FFSW3CR40	4	3.37	3.37	1	50.71	

FORGED STEEL FITTINGS

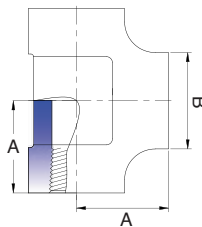
90° Elbow



6,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT
ELL1/2-90-6MTHRDFS	1/2	1.50	1.81	32	1.7
ELL3/4-90-6MTHRDFS	3/4	1.75	2.19	20	2.82
ELL1-90-6MTHRDFS	1	2.00	2.44	18	3.64
ELL1 1/2-90-6MTHRDFS	1 1/2	2.50	3.31	5	7.69
ELL2-90-6MSWFS	2	3.25	4.00	-	6.53
ELL2 1/2-90-6MTHRDFS	2 1/2	3.75	4.75	2	14.64
ELL3-90-6MTHRDFS	3	4.19	5.75	1	37.7
ELL4-90-6MTHRDFS	4	4.50	6.00	1	52.58

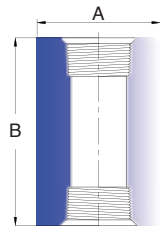
Tee



6,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT
TEE1/2-6MTHRDFS	1/2	1.50	1.81	32	2.23
TEE3/4-6MTHRDFS	3/4	1.75	2.19	15	3.7
TEE1-6MTHRDFS	1	2.00	2.44	12	4.85
TEE1 1/2-6MTHRDFS	1 1/2	2.50	3.31	5	9.41
TEE2-6MTHRDFS	2	3.25	4.00	2	18.67
TEE2 1/2-6MTHRDFS	2 1/2	3.75	4.75	1	28.33
TEE3-6MTHRDFS	3	4.19	5.75	1	45.97

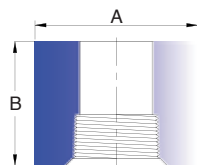
Coupling



6,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT
CPLG1/2-6MTHRDFCFS	1/2	1.50	1.88	100	0.33
CPLG3/4-6MTHRDFCFS	3/4	1.75	2.00	50	0.99
CPLG1-6MTHRDFCFS	1	2.25	2.38	25	2.12
CPLG1 1/2-6MTHRDFCFS	1 1/2	3.00	3.12	12	4.41
CPLG2-6MTHRDFCFS	2	3.62	3.38	6	7.5
CPLG3-6MTHRDFCFS	3	5.00	4.25	2	14.77
CPLG4-6MTHRDFCFS	4	6.25	4.75	2	27.56

Half Coupling

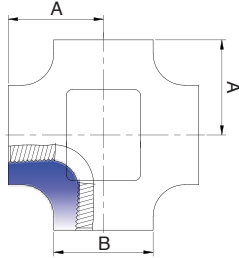


6,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT
CPLG3/4-6MTHRDFCFS	3/4	1.75	1.00	100	0.51
CPLG1-6MTHRDFCFS	1	2.25	1.19	50	2.12
CPLG2-6MTHRDFCFS	2	3.62	1.69	15	7.5
CPLG3-6MTHRDFCFS	3	5.00	2.13	5	14.77

FORGED STEEL FITTINGS

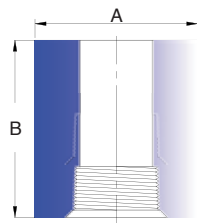
Cross



6,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT
CROSS1/4-6MTHRDFS	1/4	1.12	1.31	40	1.12
CROSS1/2-6MTHRDFS	1/2	1.50	1.81	40	1.12
CROSS3/4-6MTHRDFS	3/4	1.75	2.19	24	2.76
CROSS1-6MTHRDFS	1	2.00	2.44	6	5.78
CROSS1 1/2-6MTHRDFS	1 1/2	2.50	3.31	4	12.32
CROSS2-6MTHRDFS	2	3.25	4.00	1	21.83

TOE Coupling



6,000 PSI Weights (LBS) • Dimensions (IN) • QTY (Case Quantity)

ITEM CODE	SIZE	A	B	QTY	WEIGHT
CPLG1/2X4-6MTHRDTOEFS	1/2x4	1.5	4	40	0.18
CPLG3/4X4-6MTHRDTOEFS	3/4x4	1.75	4	33	0.51
CPLG3/4X6-6MTHRDTOEFS	3/4x6	1.75	6	25	0.51
CPLG1X4-6MTHRDTOEFS	1x4	2.25	4	20	1.06
CPLG1X6-6MTHRDTOEFS	1x6	2.25	6	15	1.08
CPLG1 1/4X4-6MTHRDTOEFS	1 1/2x4	2.5	4	15	1.43
CPLG3X6-6MTHRDTOEFS	3x6	5	6	2	7.39