

FITTINGS AND NIPPLES



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BRASS NIPPLES

BRASS NIPPLES



We hereby certify that to the best of our knowledge and belief the CDA 230 alloy seamless Red Brass Pipe from which our nipples are produced meet the requirements of ASTM Specifications B43 and is free of mercury contamination. The chemical analysis is 85% copper, 15% Zinc and conforms to federal Specifications WWN-351. Our brass nipples meet ANSI/ASTM B687-96 and MS51846 for standard brass nipples, and MS51872 for extra heavy brass nipples.

Threads: Nipples are threaded with American Standard taper pipe threads (NPT) in accordance with screw-thread standard for Federal Services Handbook H-58. ANSI B1.20.1

This product is certified by NSF to NSF/ANSI 61 for use in drinking water supplies of pH 6.5 and above.

- ASTM B43
- ANSI B1.20.1, WW-N-351
- ANSI/ ASTM B687-96
- NSF-61 Approved
- MS51846 STD Brass Nipples
- RoHS compliant

STANDARD RED BRASS 85% PIPE WITH THREADED ENDS SPECIFICATIONS:

Pipe Size in Inches	Dimension in Inches			Allowable Pressure POUNDS PER SQUARE INCH				
	O.D.	I.D.	Wall Thickness	Standard Size (Inches)	@ 100° F	@ 200° F	@ 300° F	@ 400° F
1/8"	.405	.281	.062	1/8"	370	370	320	140
1/4"	.540	.376	.082	1/4"	870	870	760	330
3/8"	.675	.495	.090	3/8"	890	890	780	340
1/2"	.840	.626	.107	1/2"	900	900	790	340
3/4"	1.050	.822	.114	3/4"	810	810	710	310
1"	1.315	1.063	.126	1"	630	630	560	240
1-1/4"	1.660	1.368	.146	1-1/4"	690	690	610	260
1-1/2"	1.900	1.600	.150	1-1/2"	630	630	560	240
2"	2.375	2.063	.156	2"	540	540	480	210
2-1/2"	2.875	2.501	.187	2-1/2"	450	450	390	170
3"	3.500	3.062	.219	3"	510	510	450	190
3-1/2"	4.000	3.500	.250	3-1/2"	570	570	500	220
4"	4.500	4.000	.250	4"	510	510	440	190
4-1/2"	5.000	4.500	.250	5"	410	410	360	160
5"	5.563	5.063	.250	6"	340	340	300	130
6"	6.625	6.125	.250					

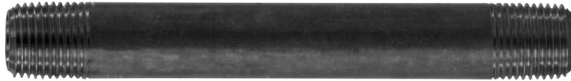
No-Lead 125LB seamless Threaded
Red Brass Nipples - 2200

LEAD FREE

LEAD
FREE



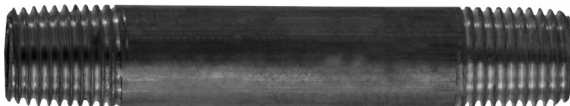
1/8" - 27

**1/8" DIAMETER SCH 40 SEAMLESS**

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
40-001	Close (3/4")	25/400	0.02	3.97
40-002	x 1-1/2"	25/400	0.03	4.49
40-003	x 2"	25/400	0.04	4.81
40-004	x 2-1/2"	25/400	0.05	5.46
40-005	x 3"	25/400	0.06	5.89
40-006	x 3-1/2"	25/400	0.07	6.36
40-007	x 4"	25/400	0.08	7.14
40-008	x 4-1/2"	25/400	0.10	8.06
40-009	x 5"	25/400	0.11	8.73
40-010	x 5-1/2"	25/400	0.12	9.44
40-011	x 6"	25/400	0.13	10.12
40-012	x 7"	25/400	0.15	12.02
40-013	x 8"	25/400	0.17	13.26
40-014	x 9"	25/400	0.19	16.30
40-015	x 10"	25/400	0.21	17.83
40-016	x 11"	25/400	0.23	19.34
40-017	x 12"	25/400	0.25	20.59
40-218	x 12ft	1/1	3.11	218.96



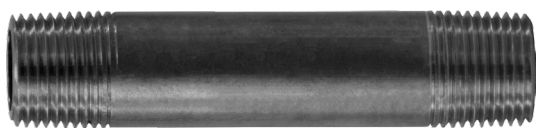
1/4"-18

**1/4" DIAMETER SCH 40 SEAMLESS**

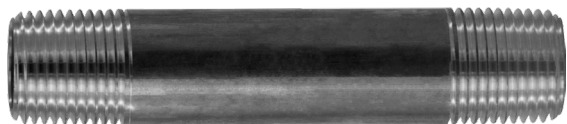
Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
40-020	Close (7/8")	25/400	0.03	4.63
40-021	x 1-1/2"	25/400	0.05	5.36
40-022	x 2"	25/400	0.07	6.07
40-023	x 2-1/2"	25/400	0.09	6.58
40-024	x 3"	25/400	0.11	7.72
40-025	x 3-1/2"	25/400	0.13	8.40
40-026	x 4"	25/400	0.14	9.88
40-027	x 4-1/2"	25/400	0.16	10.74
40-028	x 5"	25/400	0.18	11.69
40-029	x 5-1/2"	25/400	0.20	12.68
40-030	x 6"	25/400	0.22	14.26
40-031	x 7"	25/200	0.25	16.25
40-032	x 8"	25/200	0.29	17.81
40-033	x 9"	25/200	0.33	19.79
40-034	x 10"	25/200	0.36	21.73
40-035	x 11"	25/200	0.40	28.83
40-036	x 12"	25/200	0.43	25.66
40-227	x 6 ft	1/1	2.58	135.31
40-228	x 12 ft	1/1	5.16	277.99



See page 7 for Yellow Brass Nipples

BRASS NIPPLES**SCH 40 SEAMLESS****LEAD
FREE****3/8"-18****3/8" DIAMETER SCH 40 SEAMLESS**

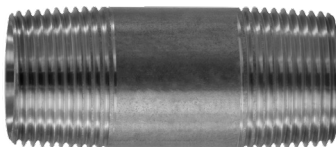
Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
40-040	Close (1")	25/400	0.05	4.81
40-041	x 1-1/2"	25/400	0.08	5.69
40-042	x 2"	25/400	0.10	6.91
40-043	x 2-1/2"	25/400	0.13	7.48
40-044	x 3"	25/400	0.16	9.16
40-045	x 3-1/2"	25/400	0.18	9.88
40-046	x 4"	25/400	0.21	11.76
40-047	x 4-1/2"	25/300	0.23	15.24
40-048	x 5"	25/300	0.26	13.73
40-049	x 5-1/2"	25/300	0.29	14.93
40-050	x 6"	25/300	0.31	16.16
40-051	x 7"	25/200	0.36	19.61
40-052	x 8"	25/150	0.42	21.98
40-053	x 9"	25/150	0.47	31.62
40-054	x 10"	25/100	0.52	26.19
40-055	x 11"	25/100	0.57	28.59
40-056	x 12"	25/100	0.62	31.01
40-237	x 6 ft	1/1	3.72	180.59
40-238	x 12 ft	1/1	7.44	362.30

**LEAD
FREE****1/2" - 14****1/2" DIAMETER SCH 40 SEAMLESS**

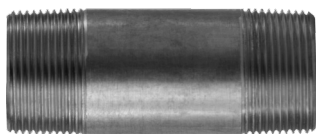
Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
40-060	Close (1-1/8")	25/400	0.09	6.40
40-061	x 1-1/2"	25/400	0.12	7.41
40-062	x 2"	25/400	0.16	8.71
40-063	x 2-1/2"	25/300	0.20	10.36
40-064	x 3"	25/300	0.23	12.17
40-065	x 3-1/2"	25/300	0.27	13.88
40-066	x 4"	25/200	0.31	15.91
40-067	x 4-1/2"	25/200	0.35	17.28
40-068	x 5"	25/200	0.39	19.03
40-069	x 5-1/2"	25/200	0.43	20.91
40-070	x 6"	25/200	0.47	23.17
40-071	x 7"	25/100	0.55	26.84
40-072	x 8"	25/100	0.62	30.07
40-073	x 9"	25/100	0.70	33.37
40-074	x 10"	25/75	0.78	36.92
40-075	x 11"	25/75	0.86	49.12
40-076	x 12"	25/75	0.94	43.91
40-078	x 18"	1/1	1.41	108.65
40-079	x 24"	1/1	1.88	74.74
40-245	x 36"	1/1	2.82	100.35
40-246	x 48"	1/1	3.76	141.53
40-250	x 60"	1/1	4.70	184.45
40-247	x 6 ft	1/1	5.64	228.81
40-248	x 12 ft	1/1	11.28	511.16


**LEAD
FREE**
3/4" - 14
3/4" DIAMETER SCH 40 SEAMLESS

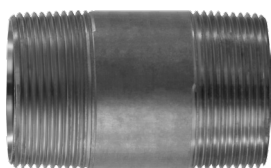
Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-080	Close (1- 3/8")	25/400	0.15	9.24
40-081	x 1-1/2"	25/400	0.16	9.85
40-082	x 2"	25/300	0.21	11.63
40-083	x 2-1/2"	25/300	0.27	13.49
40-084	x 3"	25/200	0.32	15.55
40-085	x 3-1/2"	25/200	0.37	17.47
40-086	x 4"	25/150	0.43	20.31
40-087	x 4-1/2"	25/150	0.48	22.07
40-088	x 5"	25/100	0.53	24.37
40-089	x 5-1/2"	25/100	0.59	26.62
40-090	x 6"	25/100	0.64	29.65
40-091	x 7"	25/75	0.75	34.74
40-092	x 8"	25/75	0.85	39.13
40-093	x 9"	25/75	0.96	43.32
40-094	x 10"	25/50	1.06	47.74
40-095	x 11"	25/50	1.17	52.10
40-096	x 12"	25/50	1.28	56.82
40-097	x 18"	1/1	1.92	96.45
40-098	x 24"	1/1	2.56	72.35
40-099	x 36"	1/1	3.84	148.32
40-257	x 6 ft	1/1	7.68	348.48
40-258	x 12 ft	1/1	15.36	705.34


**LEAD
FREE**
1" - 11 1/2
1" DIAMETER SCH 40 SEAMLESS

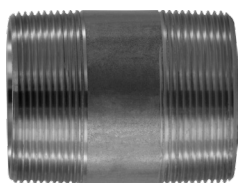
Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-100	Close (1-1/2")	25/200	0.23	13.62
40-101	x 2"	25/200	0.30	16.81
40-102	x 2-1/2"	25/150	0.38	19.61
40-103	x 3"	25/150	0.45	22.57
40-104	x 3-1/2"	25/100	0.53	26.14
40-105	x 4"	25/100	0.60	29.41
40-106	x 4-1/2"	25/100	0.68	32.79
40-107	x 5"	25/75	0.75	36.25
40-108	x 5-1/2"	25/75	0.83	39.71
40-109	x 6"	25/50	0.94	43.30
40-110	x 7"	25/50	1.05	50.57
40-111	x 8"	25/50	1.20	57.73
40-112	x 9"	25/50	1.35	64.42
40-113	x 10"	25/50	1.50	71.46
40-114	x 11"	25/50	1.65	77.09
40-115	x 12"	20/40	1.80	85.20
40-118	x 18"	1/1	2.50	100.84
40-119	x 24"	1/1	3.60	134.50
40-262	x 36"	1/1	5.40	256.30
40-267	x 6 ft	1/1	10.80	360.45
40-268	x 12 ft	1/1	21.60	856.56

BRASS NIPPLES**SCH 40 SEAMLESS****LEAD
FREE****1 1/4" - 11 1/2"****1-1/4" DIAMETER SCH 40 SEAMLESS**

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-120	Close (1-5/8")	25/100	0.36	20.55
40-121	x 2"	25/100	0.44	23.47
40-122	x 2-1/2"	25/100	0.56	26.54
40-123	x 3"	25/100	0.67	31.42
40-124	x 3-1/2"	25/100	0.78	36.76
40-125	x 4"	25/50	0.89	41.37
40-126	x 4-1/2"	25/50	1.00	45.82
40-127	x 5"	25/50	1.11	50.53
40-128	x 5-1/2"	25/50	1.22	67.20
40-129	x 6"	25/50	1.33	60.37
40-130	x 7"	25/50	1.56	71.20
40-131	x 8"	25/50	1.78	80.65
40-132	x 9"	25/50	2.00	95.66
40-133	x 10"	25/50	2.22	99.74
40-134	x 11"	25/50	2.45	114.18
40-135	x 12"	25/50	2.67	145.11
40-136	x 18"	1/1	4.00	162.59
40-137	x 24"	1/1	5.34	215.37
40-139	x 36"	1/1	8.01	315.81
40-277	x 6 ft	1/1	16.02	569.96

**LEAD
FREE****1-1/2" - 11 1/2"****1-1/2" DIAMETER SCH 40 SEAMLESS**

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-140	Close (1-3/4")	25/100	0.46	26.73
40-141	x 2"	25/100	0.53	28.75
40-142	x 2-1/2"	25/50	0.66	34.44
40-143	x 3"	25/50	0.79	39.58
40-144	x 3-1/2"	25/50	0.93	45.46
40-145	x 4"	25/50	1.06	51.56
40-146	x 4-1/2"	25/50	1.19	57.94
40-147	x 5"	20/40	1.32	64.10
40-148	x 5-1/2"	20/40	1.46	85.30
40-149	x 6"	20/40	1.59	76.19
40-150	x 7"	20/40	1.85	89.03
40-151	x 8"	20/40	2.12	101.16
40-152	x 9"	20/40	2.38	113.23
40-153	x 10"	20/40	2.65	125.32
40-154	x 11"	1/40	2.91	137.41
40-155	x 12"	1/15	3.18	149.48
40-156	x 18"	1/1	4.77	188.58
40-158	x 24"	1/1	6.36	239.75
40-159	x 36"	1/1	9.54	376.53
40-287	x 6 ft	1/1	19.08	700.77


**LEAD
FREE**

2" - 11 1/2

2" DIAMETER SCH 40 SEAMLESS

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-160	Close (2")	25/50	0.69	40.70
40-161	x 2-1/2"	25/50	0.86	43.93
40-162	x 3"	25/50	1.03	50.71
40-163	x 3-1/2"	25/50	1.20	58.37
40-164	x 4"	1/25	1.37	66.33
40-165	x 4-1/2"	1/25	1.54	73.96
40-166	x 5"	1/25	1.72	82.02
40-167	x 5-1/2"	1/25	1.89	89.96
40-168	x 6"	1/25	2.06	97.93
40-169	x 7"	1/20	2.40	114.55
40-170	x 8"	1/18	2.74	130.64
40-171	x 9"	1/18	3.09	145.67
40-172	x 10"	1/18	3.43	196.78
40-173	x 11"	1/18	3.77	174.85
40-174	x 12"	1/14	4.12	192.98
40-175	x 18"	1/1	6.18	207.02
40-176	x 24"	1/1	8.24	276.03
40-177	x 30"	1/1	10.30	386.17
40-178	x 36"	1/1	12.36	425.06
40-179	x 48"	1/1	16.48	647.80
40-298	x 12ft	1/1	49.44	2475.24


**LEAD
FREE**

2 1/2" - 8

2-1/2" DIAMETER SCH 40 SEAMLESS

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-180	Close (2-1/2")	1/36	1.26	107.40
40-181	x 3"	1/36	1.51	112.29
40-182	x 3-1/2"	1/30	1.76	127.23
40-183	x 4"	1/30	2.02	141.43
40-184	x 4-1/2"	1/30	2.27	143.07
40-185	x 5"	1/20	2.52	147.17
40-186	x 5-1/2"	1/20	2.77	179.77
40-187	x 6"	1/20	3.03	196.81
40-188	x 7"	1/20	3.53	224.21
40-189	x 8"	1/1	4.03	257.51
40-190	x 9"	1/1	4.54	285.82
40-191	x 10"	1/1	5.04	315.82
40-192	x 11"	1/1	5.55	340.31
40-193	x 12"	1/1	6.05	373.36
40-197	x 24"	1/1	12.10	666.21

See our Valve section for 2-1/2, 3 and 4" Valves

BRASS NIPPLES**SCH 40 SEAMLESS****LEAD
FREE****3" DIAMETER SCH 40 SEAMLESS**

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
40-200	Close (2-5/8")	1/24	1.89	146.05
40-201	x 3"	1/20	2.16	151.78
40-202	x 3-1/2"	1/18	2.52	208.80
40-203	x 4"	1/18	2.88	193.39
40-204	x 4-1/2"	1/18	3.24	212.59
40-205	x 5"	1/18	3.60	233.89
40-206	x 5-1/2"	1/18	3.96	254.14
40-207	x 6"	1/12	4.32	276.27
40-208	x 7"	1/1	5.04	350.36
40-209	x 8"	1/1	5.76	367.25
40-210	x 9"	1/1	6.48	402.16
40-211	x 10"	1/1	7.20	446.14
40-212	x 11"	1/1	7.92	485.16
40-213	x 12"	1/1	8.64	534.38
40-216	x 18"	1/1	12.96	677.37

**LEAD
FREE****4" DIAMETER SCH 40 SEAMLESS**

Part #	Size	Box/Case	Approx. WT. Lbs.	List Price
40-220	Close (2-7/8)	1/20		154.75
40-221	x 3"	1/10	2.72	169.37
40-222	x 3-1/2"	1/10	3.18	190.17
40-223	x 4"	1/10	3.71	260.46
40-224	x 4-1/2"	1/5	4.24	234.26
40-225	x 5"	1/5	4.77	314.66
40-226	x 5-1/2"	1/5	5.30	275.91
40-234	x 6"	1/5	6.36	304.65
40-229	x 8"	1/1	8.48	396.73
40-233	x 12"	1	12.71	704.03

**LEAD
FREE****6" DIAMETER SCH 40 SEAMLESS**

Part #	Size	Box/Case	Approx. WT. Lbs.	List Price
40-254	Close	1/1	4.94	536.99
40-256	x 4"	1/1	6.54	691.86
40-259	x 4-1/2"	1/1	7.12	749.76
40-260	x 5"	1/1	7.91	878.09
40-261	x 6"	1/1	9.49	1023.36
40-263	x 8"	1/1	12.65	1334.19
40-264	x 10"	1/1	15.82	1634.76
40-265	x 12"	1/1	18.99	1925.24


**LEAD
FREE**
3/8" DIAMETER CHROME PLATED

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
41-040	X Close	5/25	0.05	9.38
41-041	x 1-1/2"	5/25	0.08	11.11
41-042	x 2"	5/25	0.10	13.49
41-043	x 2-1/2"	5/25	0.13	14.63
41-044	x 3"	5/25	0.16	17.89
41-045	x 3-1/2"	5/25	0.18	19.30
41-046	x 4"	5/25	0.21	22.96
41-047	x 4-1/2"	5/25	0.23	24.45
41-048	x 5"	5/25	0.26	26.82
41-049	x 5-1/2"	5/25	0.29	29.16
41-050	x 6"	5/25	0.31	31.54


**LEAD
FREE**
1/2" DIAMETER CHROME PLATED

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
41-060	X Close	5/25	0.09	12.51
41-061	x 1-1/2"	5/25	0.12	14.48
41-062	x 2"	5/25	0.16	17.01
41-063	x 2-1/2"	5/25	0.20	20.24
41-064	x 3"	5/25	0.23	23.76
41-065	x 3-1/2"	5/25	0.27	27.12
41-066	x 4"	5/25	0.31	31.08
41-067	x 4-1/2"	5/25	0.35	33.73
41-068	x 5"	5/25	0.39	37.16
41-069	x 5-1/2"	5/25	0.43	40.81
41-070	x 6"	5/25	0.47	45.25



New Nickel Plated Brass Ball Valve with SS trim see page 179



See page 325 for Brass Cam & Groove Fittings

BRONZE FITTINGS



UL842, UL258, UL125, FM

Class 125 (150) For steam, water, gas, oil and air service
Standard specifications

Materials - ASTM B62-93 (85,5,5,5) C83600

Dimensions - ANSI B 16.15

Threads - ANSI B2.1 or BA 21 and Fed. WW-P-460C, MSS-SP-106, ANSI/ASME B1.20.1

- UL/ FM Approved
- ISO 9001:2000
- Not Lead Free
- RoHS Compliant

Bronze threaded fittings are manufactured from smooth-cored castings, designed to provide full flow with minimum restriction. All threads are accurately machined and gauged to ensure a perfect fit with the pipe. All fittings are individually tested under water to ensure quality. Bronze provides a tighter seal and is easier to install than other metals. Can be used for water, plumbing, heating, pneumatic and marine applications, able to resist the harmful effects of corrosion when coming into contact with salt water or fresh water polluted with mineral acids or peaty soils.

LEAD FREE BRASS FITTINGS

**LEAD
FREE**

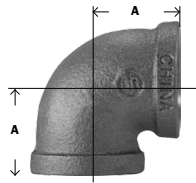


- Approved to ANSI/NSF 61-4 California AB 1953
- Meets Federal State Drinking Water Act, Lead Free Requirement
- Brass fittings conform to AWWA C800
- Brass castings conform to ASTM B584, UNS Alloy C8933

- Brass fittings dimensions conform to ASME B16.15
- NPT threads on all fittings conform to ASME B1.20.1
- Brass unions conform to specification A-A-59617
- Manufacturing facilities are ISO 9001:2008

BRONZE FITTINGS

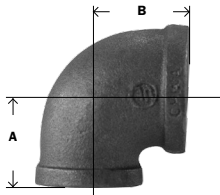
LEAD FREE BRONZE



90° ELBOWS



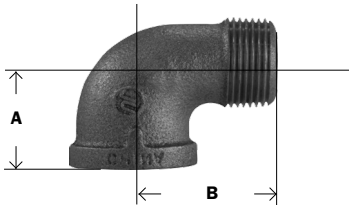
Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-100	6.52	0.08	50/600	1/8"	0.55	0.06	44-100LF	8.09
44-101	6.52	0.12	35/420	1/4"	0.72	0.10	44-101LF	5.27
44-102	6.52	0.17	90/360	3/8"	0.83	0.15	44-102LF	5.27
44-103	9.92	0.24	50/200	1/2"	1.03	0.25	44-103LF	8.02
44-104	13.34	0.34	35/105	3/4"	1.19	0.41	44-104LF	10.80
44-105	20.60	0.61	20/60	1"	1.43	0.69	44-105LF	16.66
44-106	32.76	0.95	20/40	1-1/4"	1.71	1.02	44-106LF	26.49
44-107	40.91	1.30	15/30	1-1/2"	1.87	1.36	44-107LF	33.07
44-108	66.61	2.07	8/16	2"	2.14	2.14	44-108LF	53.80
44-109	130.64	3.80	1/12	2-1/2"	2.74			
44-110	200.40	4.76	1/4	3"	3.10			
44-112	483.30	9.71	1/2	4"	3.80			



90° REDUCING ELBOWS



Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	B	Approx. Wt. Lbs.	Part #	List Price
44-120	10.10	0.10	60/720	1/4" x 1/8"	0.67	0.60			
44-122	10.56	0.24	60/240	3/8" x 1/4"	0.75	0.78			
44-123	10.71	0.44	60/240	1/2" x 1/4"	0.93	0.90			
44-124	10.71	0.58	60/240	1/2" x 3/8"	0.93	0.90	0.22	44-124LF	13.33
44-127	14.61	0.80	40/160	3/4" x 1/2"	1.08	1.11	0.31	44-127LF	18.13
44-131	25.65	1.07	50/100	1" x 3/4"	1.30	1.31	0.56	44-131LF	31.83
44-134	40.05	0.80	25/50	1-1/4" x 1"	1.52	1.60			
44-137	50.61	1.07	10/40	1-1/2" x 1"	1.56	1.72			



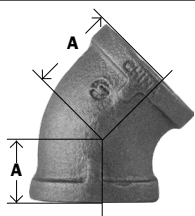
90° STREET ELLS



Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	B	Approx. Wt. Lbs.	Part #	List Price
44-160	9.92	0.07	60/720	1/8"	0.55	0.92	0.06	44-160LF	11.92
44-161	9.92	0.11	35/420	1/4"	0.72	1.11	0.11	44-161LF	8.02
44-162	9.92	0.18	60/240	3/8"	0.83	1.24	0.16	44-162LF	8.02
44-163	12.32	0.24	60/180	1/2"	1.03	1.51	0.24	44-163LF	9.97
44-164	17.40	0.37	35/105	3/4"	1.19	1.66	0.38	44-164LF	14.06
44-165	26.37	0.67	45/90	1"	1.43	1.98	0.66	44-165LF	23.27
44-166	44.04	1.00	25/50	1-1/4"	1.71	2.26	0.99	44-166LF	35.61
44-167	57.38	1.37	9/27	1-1/2"	1.87	2.46	1.15	44-167LF	46.39
44-168	97.28	1.93	8/16	2"	2.14	2.98	2.07	44-168LF	78.65
44-169	153.80	4.05	5/10	2-1/2"	2.74	3.92			
44-170	230.70	6.16	1/8	3"	3.10	4.45			

LEAD FREE BRONZE

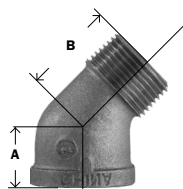
BRONZE FITTINGS



45° ELBOWS



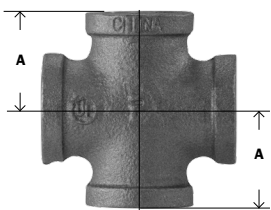
Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-180	7.15	0.08	50/600	1/8"	0.43			
44-181	7.15	0.13	30/360	1/4"	0.55	0.09	44-181LF	5.77
44-182	7.15	0.17	75/300	3/8"	0.63	0.14	44-182LF	19.04
44-183	9.06	0.21	50/200	1/2"	0.79	0.19	44-183LF	7.34
44-184	13.34	0.32	40/120	3/4"	0.91	0.36	44-184LF	10.80
44-185	22.56	0.52	20/60	1"	1.07	0.59	44-185LF	21.26
44-186	36.06	0.86	20/40	1-1/4"	1.23	0.87	44-186LF	29.15
44-187	45.19	1.10	10/30	1-1/2"	1.31	1.13	44-187LF	36.53
44-188	73.25	1.71	12/24	2"	1.47	1.65	44-188LF	59.20
44-189	144.03	3.24	1/12	2-1/2"	1.95			
44-190	231.53	4.12	1/10	3"	2.17			



90° REDUCING ELBOWS



Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	B	Approx. Wt. Lbs.	Part #	List Price
44-200	10.10	0.06	70/840	1/8"	0.26	0.43			
44-201	12.06	0.11	100/400	1/4"	0.35	0.56	0.09	44-201LF	30.38
44-202	10.10	0.13	100/400	3/8"	0.37	0.63	0.12	44-202LF	30.38
44-203	12.32	0.18	75/225	1/2"	0.45	0.79	0.22	44-203LF	9.97
44-204	24.24	0.28	40/120	3/4"	0.52	0.91	0.31	44-204LF	14.06
44-205	28.77	0.52	25/75	1"	0.60	1.07	0.52	44-205LF	35.71
44-206	44.04	0.77	10/40	1-1/4"	0.67	1.23	0.72	44-206LF	35.61
44-207	59.16	0.97	10/30	1-1/2"	0.70	1.31	1.05	44-207LF	47.81
44-208	100.27	2.04	12/24	2"	0.76	1.47			



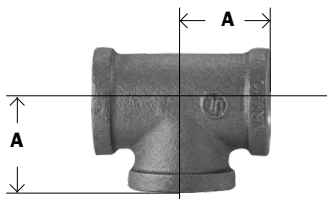
CROSSES



Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-391	15.16	0.20	60/240	1/4"	0.72	0.15	44-391LF	12.25
44-392	15.16	0.15	50/150	3/8"	0.83	0.25	44-392LF	12.25
44-393	18.41	0.45	30/90	1/2"	1.03	0.38	44-393LF	14.89
44-394	26.60	0.76	20/60	3/4"	1.19	0.59	44-394LF	21.51
44-395	42.19	1.04	15/30	1"	1.19	0.94	44-395LF	34.11
44-396	66.04	1.63	10/20	1-1/4"	1.71	1.43	44-396LF	53.35
44-397	84.36	2.10	8/16	1-1/2"	1.87	1.89	44-397LF	68.22
44-398	175.80	3.28	5/10	2"	2.14	2.95	44-398LF	142.10

BRONZE FITTINGS

LEAD FREE BRONZE

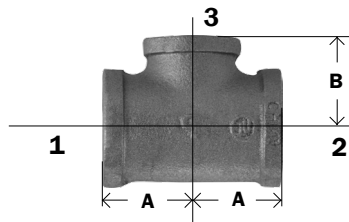


LEAD
FREE



TEES

Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-250	9.06	0.11	120/480	1/8"	0.55			
44-251	9.06	0.17	75/300	1/4"	0.72	0.13	44-251LF	7.34
44-252	9.06	0.25	45/180	3/8"	0.83	0.21	44-252LF	7.34
44-253	11.41	0.31	40/120	1/2"	1.03	0.35	44-253LF	9.23
44-254	16.41	0.50	35/70	3/4"	1.19	0.55	44-254LF	13.28
44-255	29.17	0.85	20/40	1"	1.43	0.92	44-255LF	23.58
44-256	40.91	1.29	14/28	1-1/4"	1.71	1.34	44-256LF	33.07
44-257	56.29	1.68	12/24	1-1/2"	1.87	1.82	44-257LF	45.50
44-258	92.20	2.70	8/16	2"	2.14	2.80	44-258LF	74.55
44-259	179.30	5.14	1/6	2-1/2"	2.74			
44-260	274.21	7.59	1/6	3"	3.10			

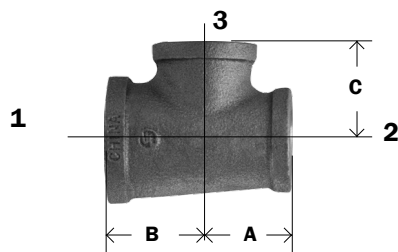


LEAD
FREE



REDUCING TEES REDUCING ON THE BRANCH

Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size (1 & 2) x 3	A	B	Approx. Wt. Lbs.	Part #	List Price
44-276	13.85	0.24	40/160	1/2" x 1/4"	0.87	0.87	0.28	44-276LF	17.17
44-279	15.84	0.35	40/160	1/2" x 3/8"	0.93	0.90			
44-280	26.82	0.46	40/160	1/2" x 3/4"	2.42	1.155	0.48	44-280LF	19.66
44-282	19.66	0.43	25/100	3/4" x 1/4"	1.05	1.08	0.38	44-282LF	24.41
44-283	19.66	0.45	25/100	3/4" x 3/8"	1.00	1.00			
44-286	19.66	0.53	20/80	3/4" x 1/2"	1.08	1.11	0.40	44-286LF	15.90
44-291	35.95	0.60	15/60	1" x 1/2"	1.20	1.24	0.73	44-291LF	29.05
44-298	35.95	0.80	12/48	1" x 3/4"	1.30	1.31	0.71	44-298LF	29.05
44-301	62.80	0.85	20/40	1-1/4" x 1/2"	1.34	1.53	1.18	44-301LF	62.80
44-303	50.61	0.90	20/40	1-1/4" x 3/4"	1.30	1.31			
44-306	50.61	1.21	20/40	1-1/4" x 1"	1.58	1.67			

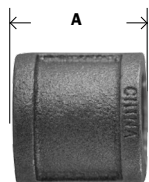


REDUCING TEES REDUCING ON THE RUN

Part #	Size 1x2x3	A	B	C	Box/Case	Approx. Wt. Lbs.	List Price
44-287	3/4" x 1/2" x 1/2"	25/100	1.20	1.22	25/100	0.37	21.63
44-296	1" x 3/4" x 3/4"	15/60	1.37	1.45	10/40	0.71	39.15

LEAD FREE BRONZE

BRONZE FITTINGS



COUPLINGS



Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-410	6.52	0.12	70/840	1/8"	0.80			
44-411	6.52	0.11	40/480	1/4"	0.80	0.09	44-411LF	5.27
44-412	6.52	0.15	40/480	3/8"	1.05	0.13	44-412LF	5.27
44-413	8.20	0.18	60/240	1/2"	1.29	0.21	44-413LF	6.61
44-414	10.81	0.28	50/150	3/4"	1.43	0.32	44-414LF	8.74
44-415	16.41	0.45	25/100	1"	1.68	0.53	44-415LF	13.28
44-416	25.65	0.63	16/64	1-1/4"	1.86	0.73	44-416LF	20.74
44-417	34.87	0.82	18/36	1-1/2"	1.92	0.97	44-417LF	28.18
44-418	57.38	1.38	12/24	2"	2.20	1.51	44-418LF	46.39
44-419	95.35	2.63	1	2-1/2"	2.88			
44-420	131.81	3.80	1	3"	3.18			



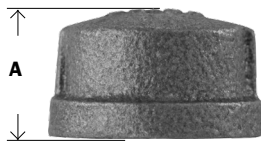
REDUCING COUPLINGS



Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-430	7.00	0.08	70/840	1/4" x 1/8"	0.88			
44-431	7.00	0.11	35/420	3/8" x 1/8"	0.92			
44-432	7.00	0.13	30/360	3/8" x 1/4"	0.92	0.11	44-432LF	5.65
44-433	10.10	0.16	75/300	1/2" x 1/8"	1.17			
44-434	8.72	0.16	75/300	1/2" x 1/4"	1.17	0.16	44-434LF	7.06
44-435	8.72	0.18	60/240	1/2" x 3/8"	1.17	0.17	44-435LF	7.06
44-436	14.43	0.23	45/180	3/4" x 1/4"	1.35	0.20	44-436LF	11.67
44-437	12.99	0.24	45/180	3/4" x 3/8"	1.35	0.23	44-437LF	16.12
44-438	12.99	0.23	60/180	3/4" x 1/2"	1.35	0.26	44-438LF	10.50
44-440	24.35	0.40	30/120	1" x 3/8"	1.56			
44-441	21.60	0.33	30/120	1" x 1/2"	1.56	0.38	44-441LF	17.46
44-442	21.60	0.44	25/100	1" x 3/4"	1.56	0.43	44-442LF	17.46
44-444	41.38	0.62	25/75	1-1/4" x 1/2"	1.77			
44-445	34.87	0.64	25/75	1-1/4" x 3/4"	1.77	0.57	44-445LF	28.18
44-446	34.87	0.54	15/60	1-1/4" x 1"	1.77	0.65	44-446LF	28.18
44-447	49.59	0.80	20/60	1-1/2" x 1/2"	1.80			
44-448	49.59	0.83	15/60	1-1/2" x 3/4"	1.80	0.74	44-448LF	40.10
44-449	44.04	0.68	25/50	1-1/2" x 1"	1.80	0.83	44-449LF	35.61
44-450	44.04	0.99	12/48	1-1/2" x 1-1/4"	1.80	0.87	44-450LF	35.61
44-458	73.77	1.28	12/36	2" x 1/2"	2.03			
44-451	73.77	0.97	12/36	2" x 3/4"	2.03			
44-452	73.77	1.40	12/36	2" x 1"	2.03	1.19	44-452LF	59.64
44-453	65.46	1.09	9/27	2" x 1-1/4"	2.03	1.22	44-453LF	54.05
44-454	65.46	3.60	9/27	2" x 1-1/2"	2.03	1.28	44-454LF	52.88
44-461	115.96	1.26	1	2-1/2" x 1-1/2"	3.15			
44-462	116.00	2.29	1	2-1/2" x 2"	3.15			
44-456	153.69	2.49	1	3" x 2"	3.69			
44-463	153.69	3.92	1	3" x 2-1/2"	3.69			

BRONZE FITTINGS

LEAD FREE BRONZE



LEAD
FREE



CAPS

Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-470	4.88	0.04	80/160	1/8"	0.53			
44-471	4.88	0.06	80/960	1/4"	0.58	0.06	44-471LF	9.98
44-472	4.88	0.10	60/720	3/8"	0.66			
44-473	6.52	0.13	75/300	1/2"	0.75	0.13	44-473LF	5.27
44-474	8.62	0.19	40/160	3/4"	0.87	0.21	44-474LF	6.97
44-475	13.51	0.30	25/100	1"	1.03	0.35	44-475LF	10.92
44-476	20.54	0.51	20/80	1-1/4"	1.10	0.52	44-476LF	16.61
44-477	27.73	0.66	18/54	1-1/2"	1.12	0.65	44-477LF	22.42
44-478	47.06	1.00	12/36	2"	1.35	1.14	44-478LF	38.06
44-480	142.90	2.74	1	3"	1.83			



LEAD
FREE



UNIONS

Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Approx. Wt. Lbs.	Part #	List Price
44-600	23.12	0.17	40/160	1/8"	1.18			
44-601	23.12	0.25	40/160	1/4"	1.26	0.27	44-601LF	18.70
44-602	23.12	0.37	40/160	3/8"	1.50	0.39	44-602LF	41.85
44-603	25.15	0.52	50/100	1/2"	1.57	0.44	44-603LF	20.33
44-604	34.87	0.78	35/70	3/4"	1.89	0.59	44-604LF	28.18
44-605	46.18	1.18	20/40	1"	2.13	0.90	44-605LF	37.33
44-606	67.64	1.64	15/30	1-1/4"	2.36	1.33	44-606LF	54.67
44-607	79.82	2.08	10/20	1-1/2"	2.68	1.80	44-607LF	64.53
44-608	122.85	3.24	6/12	2"	2.99	2.66	44-608LF	99.33
44-609	241.76	5.31	4/8	2-1/2"	3.35			
44-610	373.50	6.94	4/8	3"	3.74			



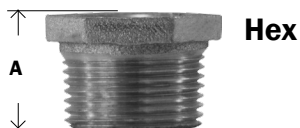
• Straight Thread

HEX LOCKNUTS

Part #	Box/Case	Size	A	Thickness	Approx. Wt. Lbs.	List Price
44-700	180/720	1/8"	0.50	0.19	0.01	3.23
44-701	90/540	1/4"	0.66	0.25	0.03	3.23
44-702	90/540	3/8"	0.77	0.28	0.04	3.23
44-703	90/360	1/2"	0.97	0.31	0.09	5.19
44-704	90/360	3/4"	1.23	0.34	0.10	6.18
44-705	50/150	1"	1.50	0.38	0.17	9.22
44-706	45/180	1-1/4"	1.86	0.42	0.22	14.98
44-707	45/135	1-1/2"	2.12	0.47	0.29	19.43
44-708	25/75	2"	2.63	0.53	0.45	30.87

LEAD FREE BRONZE

BRONZE FITTINGS



Hex

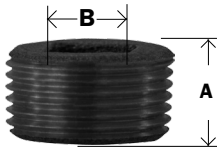


HEX BUSHINGS

Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	Hex	Approx. Wt. Lbs.	Part #	List Price
44-500	4.41	0.02	120/1440	1/4" x 1/8"	0.58	0.66	0.03	44-500LF	6.41
44-501	4.41	0.06	75/900	3/8" x 1/8"	0.64	0.72			
44-502	4.41	0.04	75/900	3/8" x 1/4"	0.64	0.75	0.04	44-502LF	5.52
44-503	6.18	0.10	150/600	1/2" x 1/8"	0.75	0.92	0.09	44-503LF	5.85
44-504	5.19	0.09	150/600	1/2" x 1/4"	0.75	0.93	0.10	44-504LF	4.20
44-505	5.19	0.08	150/600	1/2" x 3/8"	0.75	0.92	0.08	44-505LF	4.20
44-506	8.62	0.17	75/300	3/4" x 1/8"	0.87	1.15			
44-507	8.62	0.15	75/300	3/4" x 1/4"	0.85	1.14	0.18	44-507LF	6.97
44-508	7.15	0.14	75/300	3/4" x 3/8"	0.85	1.14	0.17	44-508LF	5.77
44-509	7.15	0.14	75/300	3/4" x 1/2"	0.85	1.15	0.14	44-509LF	5.77
44-510*	13.12	0.23	50/200	1" x 1/4"	1.05	1.43	0.28	44-510LF*	10.60
44-511*	13.12	0.22	50/200	1" x 3/8"	1.05	1.50			
44-512	10.81	0.25	50/200	1" x 1/2"	1.00	1.40	0.30	44-512LF	8.74
44-513	10.81	0.21	50/200	1" x 3/4"	1.00	1.43	0.21	44-513LF	8.74
44-514	22.23	0.34	30/120	1-1/4" x 1/4"	1.22	1.10			
44-515	52.04	0.35	30/120	1-1/4" x 3/8"	1.19	1.84			
44-516*	22.23	0.34	30/120	1-1/4" x 1/2"	1.14	1.33	0.39	44-516LF*	39.94
44-517	18.41	0.40	30/120	1-1/4" x 3/4"	1.08	1.75	0.43	44-517LF	14.89
44-518	18.41	0.33	30/120	1-1/4" x 1"	1.08	1.76	0.42	44-518LF	14.89
44-519*	28.77	0.47	25/75	1-1/2" x 1/4"	1.09	2.12			
44-520*	28.77	0.45	25/75	1-1/2" x 3/8"	1.35	2.16			
44-521*	28.77	0.44	25/75	1-1/2" x 1/2"	1.20	2.10	0.51	44-521LF*	23.27
44-522*	28.77	0.48	25/75	1-1/2" x 3/4"	1.20	2.12	0.54	44-522LF*	23.27
44-523	23.52	0.53	25/75	1-1/2" x 1"	1.14	2.08	0.57	44-523LF	19.02
44-524	23.52	0.45	25/75	1-1/2" x 1-1/4"	1.14	2.12	0.46	44-524LF	19.02
44-527*	42.00	0.67	20/60	2" x 1/2"	1.27	1.32			
44-528*	42.00	0.74	20/60	2" x 3/4"	1.27	1.62			
44-529*	42.00	0.76	20/60	2" x 1"	1.29	1.95	0.77	44-529LF*	33.95
44-530	34.87	0.86	20/60	2" x 1-1/4"	1.22	2.47	0.88	44-530LF	28.18
44-531	34.87	0.83	20/60	2" x 1-1/2"	1.22	2.50	0.71	44-531LF	28.18
44-532	86.47	1.16	15/30	2-1/2" x 1"	1.53	1.94			
44-534	83.15	1.36	15/30	2-1/2" x 1-1/2"	1.50	2.38			
44-535	69.71	1.13	15/30	2-1/2" x 2"	1.43	2.97			
44-537	137.04	1.82	12/24	3" x 1-1/2"	1.61	2.68			
44-538	105.41	2.33	12/24	3" x 2"	1.61	3.70			
44-539	105.41	2.19	12/24	3" x 2-1/2"	1.53	3.70			
44-541	242.70	3.51	12/24	4" x 2"					
44-543	242.70	4.22	12/24	4" x 3"	2.01	4.62			

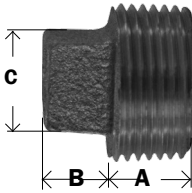


* INSIDE HEX



BRONZE COUNTERSUNK PLUGS

Part #	Size	A	Socket Size	Box/Case	Approx. Wt. Lbs.	List Price
44-633	1/2"	0.57	0.43	120/1440	0.06	5.34
44-634	3/4"	0.58	0.47	70/840	0.11	6.36
44-635	1"	0.75	0.59	20/240	0.22	11.43
44-636	1-1/4"	0.74	0.72	40/120	0.33	19.03
44-637	1-1/2"	0.79	0.72	30/90	0.50	28.58
44-638	2"	0.80	0.85	20/60	0.88	46.52

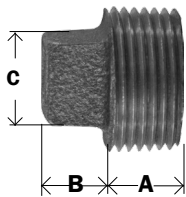


LEAD FREE



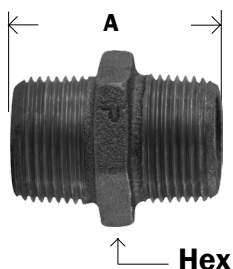
CORED SQUARE HEAD PLUGS

Part #	List Price	Approx. Wt. Lbs.	Box/Case	Size	A	B	C	Approx. Wt. Lbs.	Part #	List Price
44-650	4.88	0.02	300/3600	1/8"	0.27	0.24	0.28	0.02	44-670LF	4.99
44-651	4.88	0.04	150/1800	1/4"	0.41	0.28	0.37	0.04	44-671LF	5.36
44-652	4.88	0.06	100/1200	3/8"	0.41	0.31	0.43	0.06	44-672LF	5.49
44-653	6.82	0.10	50/600	1/2"	0.54	0.38	0.56	0.10	44-653LF	5.52
44-654	7.81	0.13	30/360	3/4"	0.55	0.44	0.62	0.13	44-654LF	7.06
44-655	10.30	0.25	20/240	1"	0.69	0.50	0.81	0.22	44-655LF	8.33
44-656	15.32	0.39	40/120	1-1/4"	0.71	0.56	0.93	0.32	44-656LF	12.40
44-657	19.54	0.57	30/90	1-1/2"	0.73	0.62	1.12	0.47	44-657LF	16.22
44-658	30.84	0.77	20/60	2"	0.76	0.68	1.31	0.68	44-658LF	24.92
44-659	52.78	1.25	16/32	2-1/2"	1.07	0.74	1.50			
44-660	84.36	2.02	16/32	3"	1.13	0.80	1.68			
44-662	164.80	3.20	6/12	4"	1.22	0.92	2.25			

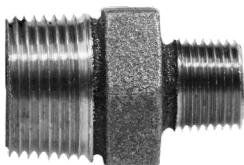


SOLID SQUARE HEAD PLUGS

Part #	Size	A	B	C	Box/Case	Approx. Wt. Lbs.	List Price
44-670	1/8"	0.27	0.24	0.28	400/4800	0.02	5.19
44-671	1/4"	0.41	0.28	0.37	150/1800	0.04	5.19
44-672	3/8"	0.41	0.31	0.43	120/1440	0.06	4.33
44-673	1/2"	0.54	0.38	0.56	50/600	0.12	8.20
44-674	3/4"	0.55	0.44	0.62	35/420	0.18	10.69
44-675	1"	0.69	0.50	0.81	20/240	0.36	18.22
44-676	1-1/4"	0.71	0.56	0.93	30/120	0.63	32.82
44-677	1-1/2"	0.73	0.62	1.12	30/90	0.84	42.66
44-678	2"	0.76	0.68	1.31	10/60	1.27	67.64

BRONZE FITTINGS**LEAD FREE C/P FITTINGS****HEX NIPPLES**

Part #	Size	A	Hex	Box/Case	Approx. Wt. Lbs.	List Price
44-720	1/8"	1.25	0.50	400/4800	0.05	7.60
44-721	1/4"	1.25	0.61	150/1800	0.06	12.60
44-722	3/8"	1.55	0.68	120/1440	0.11	12.95
44-723	1/2"	1.65	1.03	240/480	0.18	12.95
44-724	3/4"	1.77	1.21	80/320	0.24	13.60
44-725	1"	2.06	1.46	50/150	0.36	14.66
44-726	1-1/4"	2.12	1.81	50/100	0.47	30.45
44-727	1-1/2"	2.25	2.07	35/70	0.76	46.52
44-728	2"	2.50	2.41	20/40	1.50	56.29
44-729	2-1/2"	2.80	3.10	1	2.10	57.99

REDUCING HEX NIPPLES

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
44-740	1/4" x 1/8"	1/1	0.06	13.01
44-742	1/2" x 3/8"	1/1	0.16	16.25
44-744	1" x 1/2"	1/1	0.31	27.73
44-750	1-1/2" x 1"	1/1	0.64	53.24
44-753	1-1/2" x 1-1/4"	1/1	0.68	56.90

See page 244 for Stainless Steel Reducing Hex Nipples

CHROME PLATED 90° ELBOW**LEAD FREE**

Part #	Size	List Price
45-102LF	3/8"	49.09
45-103LF	1/2"	47.56

CHROME PLATED 90° ELBOW**LEAD FREE**

Part #	Size	List Price
45-163LF	1/2"	45.98

CHROME PLATED TEE**LEAD FREE**

Part #	Size	List Price
45-252LF	3/8"	57.63
45-253LF	1/2"	55.86

CHROME PLATED COUPLING**LEAD FREE**

Part #	Size	List Price
45-412LF	3/8"	41.06
45-413LF	1/2"	52.01

STAINLESS STEEL NIPPLES

**SCHEDULE 40 WELDED**

Stainless steel pipe nipples are manufactured from stainless steel pipe that conforms to specification ASTM A312/SA312.

All stainless steel nipples conform to specification ASTM A733. Threads conform to the requirements of ANSI B1.20.1.

304

The basic alloy. Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is a nonmagnetic steel which cannot be hardened by heat treatment, but instead, must be cold worked to obtain higher tensile strengths.

Because of its ability to withstand the corrosive action of various acids found in fruits, meats, milk, and vegetables, Type 304 is especially suited for all types of dairy equipment piping and valves, the brewing industry, the citrus and fruit juice industry, and in food processing applications. Also used for the dye tanks, pipelines buckets, dippers, etc. that come in contact with the lormic, acetic, and other organic acids used in the dyeing industry.

In the marine environment, because of its slightly higher strength and wear resistance than type 316 it is also used for nuts, bolts, screws, and other fasteners. It is also used for springs, cogs, and other components where both wear and corrosion resistance is needed.

Both #304 and #316 nipples are NSF/ANSI 372 and NSF/ANSI 61 compliant.

**SCHEDULE 80 SEAMLESS**

- SEAMLESS FOR UNRESTRICTED FLOW
- USE WITH AIR, WATER, OIL, NATURAL GAS, STEAM
- FITTINGS: USE THREADED CLASS 3000 HIGH-PRESSURE STAINLESS STEEL.

- ASTM A733 • ASTM A312 • ANSI/ ASME B1.20.1
- PSI 3000

316

For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer.

In type 316, the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%.

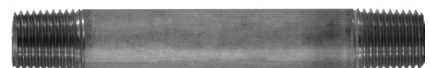
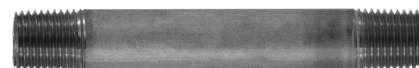
Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion.

Type 316 can withstand corrosive attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid; and the sulfite liquors and sulfurous acids used in the paper pulp industry. This alloy, therefore, is specified for industrial equipment that handles the corrosive process chemicals used to produce inks, rayons, photographic chemicals, paper, textiles, bleaches, and rubber. Type 316 is also used extensively for surgical implants within the hostile environment of the body.

Type 316 is the main stainless used in the marine environment, with the exception of fasteners and other items where strength and wear resistance are needed, then Type 304 (18-8) is typically used.

SCH 40 STAINLESS STEEL NIPPLES**STAINLESS STEEL****#304****1/8" - 27****#316****1/8" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-001	2.19	X Close (3/4")	25	0.01	49-001	2.73
48-002	2.88	x 1-1/2"	25	0.03	49-002	3.82
48-003	3.43	x 2"	25	0.04	49-003	4.65
48-004	3.97	x 2-1/2"	25	0.05	49-004	5.47
48-005	4.52	x 3"	25	0.06	49-005	6.31
48-006	5.07	x 3-1/2"	25	0.07	49-006	7.14
48-007	5.64	x 4"	25	0.07	49-007	7.98
48-008	6.18	x 4-1/2"	25	0.09	49-008	8.81
48-009	6.73	x 5"	25	0.10	49-009	9.66
48-010	7.30	x 5-1/2"	25	0.11	49-010	10.49
48-011	7.84	x 6"	25	0.12	49-011	11.33
48-015	11.04	x 10"	1	0.19		

**1/4"-18****1/4" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-020	2.49	X Close (7/8")	25	0.02	49-020	3.07
48-021	3.08	x 1-1/2"	25	0.04	49-021	3.93
48-022	3.70	x 2"	25	0.06	49-022	4.78
48-023	4.38	x 2-1/2"	25	0.07	49-023	5.70
48-024	5.06	x 3"	25	0.09	49-024	6.72
48-025	5.74	x 3-1/2"	25	0.11	49-025	7.55
48-026	6.47	x 4"	25	0.13	49-026	8.55
48-027	7.16	x 4-1/2"	25	0.14	49-027	9.46
48-028	7.84	x 5"	25	0.16	49-028	10.40
48-029	8.53	x 5-1/2"	25	0.18	49-029	11.32
48-030	9.21	x 6"	25	0.19	49-030	12.24
48-032	12.11	x 8"	1	0.25		
48-034	14.83	x 10"	1	0.35		
48-036	17.56	x 12"	1	0.44		

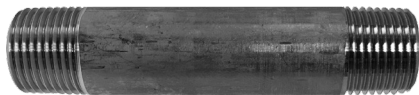


New 1,000# Barstock SS fittings on pages 250

STAINLESS STEEL

SCH 40 STAINLESS STEEL NIPPLES

#304



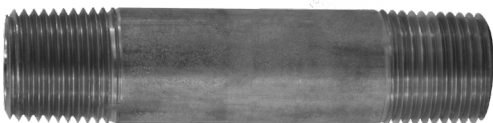
3/8"-18

#316

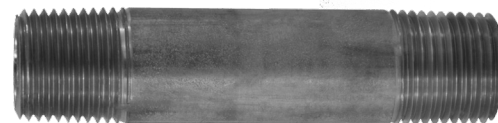


**3/8" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-040	2.98	X Close (1")	25	0.03	49-040	3.78
48-041	3.61	x 1-1/2"	25	0.06	49-041	4.73
48-042	4.38	x 2"	25	0.07	49-042	5.80
48-043	5.21	x 2-1/2"	25	0.10	49-043	6.95
48-044	6.04	x 3"	25	0.12	49-044	8.12
48-045	6.89	x 3-1/2"	25	0.15	49-045	9.27
48-046	7.72	x 4"	25	0.17	49-046	10.43
48-047	8.55	x 4-1/2"	25	0.19	49-047	11.58
48-048	9.38	x 5"	25	0.22	49-048	12.75
48-049	10.21	x 5-1/2"	25	0.23	49-049	13.89
48-050	11.06	x 6"	25	0.26	49-050	15.06
48-052	14.65	x 8"	1	0.34		
48-054	17.99	x 10"	1			



1/2" - 14



**1/2" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-060	3.84	X Close 1-1/8"	25	0.05	49-060	5.04
48-061	4.63	x 1-1/2"	25	0.07	49-061	6.20
48-062	5.55	x 2"	25	0.10	49-062	7.58
48-063	6.66	x 2-1/2"	25	0.14	49-063	9.17
48-064	7.75	x 3"	25	0.18	49-064	10.75
48-065	8.86	x 3-1/2"	25	0.20	49-065	12.34
48-066	10.00	x 4"	25	0.25	49-066	13.10
48-067	11.09	x 4-1/2"	25	0.28	49-067	15.55
48-068	12.19	x 5"	25	0.31	49-068	16.96
48-069	13.28	x 5-1/2"	25	0.34	49-069	18.72
48-070	14.40	x 6"	25	0.39	49-070	20.31
48-071	16.78	x 7"	1	0.41		
48-072	18.98	x 8"	1	0.52		
48-073	21.18	x 9"	1	0.54		
48-074	23.39	10"	1	0.58		
48-075	25.59	x 11"	1	0.64		
48-076	27.78	x 12"	1	0.69		

 Sch 80 Stainless Steel Nipples on pages 239-241

SCH 40 STAINLESS STEEL NIPPLES**STAINLESS STEEL**

#304

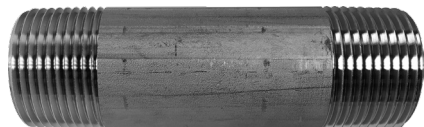


3/4" - 14

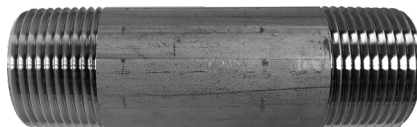
#316

**3/4" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-080	5.19	X Close (1-3/8")	25	0.08	49-080	6.57
48-081	5.52	x 1-1/2"	25	0.13	49-081	7.01
48-082	6.62	x 2"	25	0.14	49-082	8.57
48-083	7.95	x 2-1/2"	25	0.17	49-083	10.36
48-084	9.27	x 3"	25	0.22	49-084	12.15
48-085	10.61	x 3-1/2"	25	0.27	49-085	13.95
48-086	11.93	x 4"	25	0.32	49-086	15.74
48-087	13.26	x 4-1/2"	25	0.38	49-087	17.55
48-088	14.60	x 5"	25	0.40	49-088	19.33
48-089	15.93	x 5-1/2"	25	0.42	49-089	21.14
48-090	17.25	x 6"	25	0.48	49-090	22.94
48-091	20.06	x 7"	1	0.45		
48-092	22.72	x 8"	1	0.67		
48-094	28.05	x 10"	1	0.94	49-094	37.44
48-096	33.37	x 12"	1	1.03		



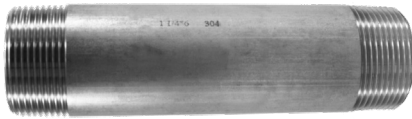
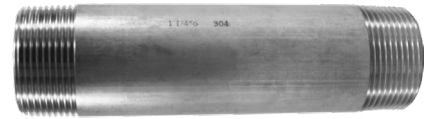
1" - 11 1/2

**1" DIAMETER
SCH 40 WELDED**

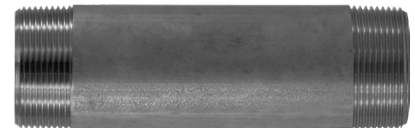
Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-100	6.81	X Close (1-1/2")	25	0.13	49-100	9.11
48-101	8.54	x 2"	25	0.20	49-101	11.56
48-102	10.13	x 2-1/2"	25	0.25	49-102	13.87
48-103	11.85	x 3"	25	0.33	49-103	16.32
48-104	13.56	x 3-1/2"	25	0.40	49-104	18.75
48-105	15.27	x 4"	25	0.47	49-105	21.21
48-106	16.99	x 4-1/2"	25	0.53	49-106	23.65
48-107	18.70	x 5"	25	0.55	49-107	26.08
48-108	20.42	x 5-1/2"	25	0.60	49-108	28.53
48-109	22.13	x 6"	25	0.71	49-109	30.96
48-110	25.91	x 7"	1	0.57		
48-111	29.35	x 8"	1	1.02		
48-113	36.21	x 10"	1	1.16		
48-115	44.76	x 12"	1			



1,000# 2 Piece FP #316 Stainless Steel Ball Valve on page 201

STAINLESS STEEL**SCH 40 STAINLESS STEEL NIPPLES****1 1/4" - 11 1/2****1-1/4" DIAMETER
SCH 40 WELDED**

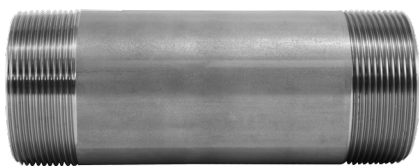
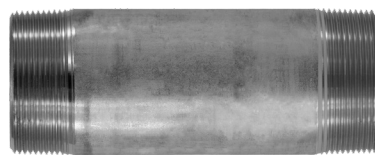
Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-120	9.16	X Close (1-5/8")	10	0.17	49-120	12.47
48-121	10.78	x 2"	10	0.23	49-121	14.85
48-122	12.78	x 2-1/2"	10	0.35	49-122	17.79
48-123	14.96	x 3"	10	0.46	49-123	20.94
48-124	17.13	x 3-1/2"	10	0.52	49-124	24.09
48-125	19.30	x 4"	10	0.65	49-125	27.24
48-126	21.47	x 4-1/2"	10	0.53	49-126	30.38
48-127	23.65	x 5"	10	0.60	49-127	33.53
48-128	25.82	x 5-1/2"	10	0.61	49-128	36.68
48-129	27.98	x 6"	10	0.71	49-129	39.83
48-131	36.80	x 8"	1	1.34		
48-135	54.17	x 12"	1	1.54		

**1-1/2" - 11 1/2****1-1/2" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-140	11.21	X Close x 1-3/4"	10	0.25	49-140	15.40
48-141	12.29	x 2"	10	0.32	49-141	17.05
48-142	14.86	x 2-1/2"	10	0.41	49-142	20.77
48-143	17.42	x 3"	10	0.52	49-143	24.49
48-144	19.99	x 3-1/2"	10	0.62	49-144	28.20
48-145	22.55	x 4"	10	0.73	49-145	31.92
48-146	25.13	x 4-1/2"	10	0.86	49-146	35.65
48-147	27.69	x 5"	10	0.95	49-147	39.35
48-148	30.25	x 5-1/2"	10	1.01	49-148	43.07
48-149	32.81	x 6"	10	1.19	49-149	46.79
48-151	43.35	x 8"	1	1.63		
48-152	48.49	x 9"	1	1.88		
48-153	43.76	x 10"	1			



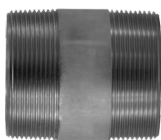
New SS Mini Ball Valves w/Viton O-Ring on page 203

SCH 40 STAINLESS STEEL NIPPLES**STAINLESS STEEL****2" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
48-160	17.41	X Close (2")	10	0.37	49-160	23.93
48-161	19.39	x 2-1/2"	10	0.54	49-161	27.37
48-162	22.44	x 3"	10	0.65	49-162	31.97
48-163	25.79	x 3-1/2"	10	0.88	49-163	36.87
48-164	29.13	x 4"	10	1.02	49-164	41.78
48-165	32.47	x 4-1/2"	10	1.16	49-165	46.67
48-166	35.82	x 5"	10	1.29	49-166	51.59
48-167	39.15	x 5-1/2"	10	1.46	49-167	56.48
48-168	42.50	x 6"	10	1.57	49-168	61.37
48-169	49.82	x 7"	1	1.92	49-169	71.87
48-170	56.51	x 8"	1	2.01		
48-171	63.20	x 9"	1	2.55		
48-172	69.88	x 10"	1	2.69		
48-174	80.28	x 12"	1	2.89		

**2-1/2" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	Length	Box	Approx. Wt. Lbs.	List Price
48-180	X Close (2-1/2")	10	0.64	35.30

**3" DIAMETER
SCH 40 WELDED**

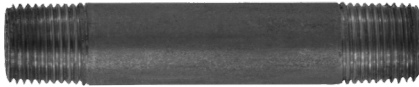
Part # 304 S.S.	Length	Box	Approx. Wt. Lbs.	List Price
48-200	X Close (2-5/8")	10	0.95	49.67
48-201	x 3"	10	1.32	54.84
48-203	x 4"	10	1.66	68.65
48-205	x 5"	5	1.72	78.63
48-207	x 6"	5	1.88	92.44
48-209	x 8"	1	1.91	124.47
48-213	x 12"	1	2.12	184.27

**4" DIAMETER
SCH 40 WELDED**

Part # 304 S.S.	Length	Box	Approx. Wt. Lbs.	List Price
48-220	X Close (2-7/8")	8	1.15	63.47
48-227	x 6"	1	2.31	118.65

STAINLESS STEEL**SCH 80 STAINLESS STEEL NIPPLES****#304**

1/8" - 27

#316**1/8" DIAMETER
SCH 80 SEAMLESS**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
51-001	6.73	X Close (3/4")	25	0.01	52-001	8.34
51-002	9.45	X 1-1/2"	25	0.03	52-002	11.70
51-003	10.35	X 2"	25	0.04	52-003	14.27
51-004	12.17	X 2-1/2"	25	0.05	52-004	17.92
51-005	13.85	X 3"	25	0.07	52-005	20.74
51-006	15.56	X 3-1/2"	25	0.09	52-006	25.23
51-007	17.25	X 4"	25	0.15	52-007	28.21
51-008	18.94	X 4-1/2"	25	0.19	52-008	27.02
51-009	20.65	X 5"	25	0.22	52-009	29.58
51-010	22.37	X 5-1/2"	25	0.26	52-010	37.07
51-011	24.05	X 6"	25	0.30	52-011	34.72

1/4"-18

**1/4" DIAMETER
SCH 80 SEAMLESS**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
51-020	7.30	X Close (7/8")	25	0.03	52-020	9.37
51-021	9.05	X 1-1/2"	25	0.06	52-021	12.86
51-022	10.88	X 2"	25	0.07	52-022	15.75
51-023	12.89	X 2-1/2"	25	0.10	52-023	18.75
51-024	14.90	X 3"	25	0.12	52-024	21.79
51-025	19.51	X 3-1/2"	25	0.15	52-025	26.67
51-026	19.08	X 4"	25	0.17	52-026	30.21
51-027	21.09	X 4-1/2"	25	0.20	52-027	33.48
51-028	23.10	X 5"	25	0.22	52-028	31.86
51-029	25.11	X 5-1/2"	25	0.24	52-029	39.99
51-030	31.32	X 6"	25	0.25	52-030	37.51

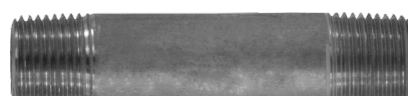
3/8"-18

**3/8" DIAMETER
SCH 80 SEAMLESS**

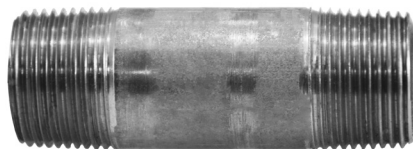
Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
51-040	9.14	X CLOSE (1")	25	0.04	52-040	12.43
51-041	11.93	X 1-1/2"	25	0.50	52-041	14.47
51-042	13.41	X 2"	25	0.06	52-042	19.07
51-043	15.97	X 2-1/2"	25	0.08	52-043	24.61
51-044	18.51	X 3"	25	0.11	52-044	24.86
51-045	21.09	X 3-1/2"	25	0.13	52-045	32.91
51-046	27.24	X 4"	25	0.15	52-046	36.87
51-047	26.20	X 4-1/2"	25	0.18	52-047	40.95
51-048	28.73	X 5"	25	0.21	52-048	39.06
51-049	36.11	X 5-1/2"	25	0.23	52-049	49.13
51-050	33.85	X 6"	25	0.25	52-050	46.15

SCH 80 STAINLESS STEEL NIPPLES**STAINLESS STEEL****#304****1/2" - 14****1/2" DIAMETER
SCH 80 SEAMLESS**

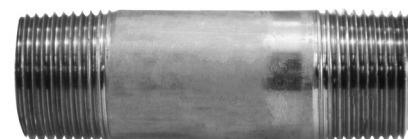
Part # 304 S.S.	List Price	Length	Box
51-060	11.33	X Close (1-1/8)	25
51-061	13.66	X 1-1/2"	25
51-062	16.37	X 2"	25
51-063	19.61	X 2-1/2"	25
51-064	22.85	X 3"	25
51-065	26.09	X 3-1/2"	25
51-066	29.43	X 4"	25
51-067	32.69	X 4-1/2"	25
51-068	35.92	X 5"	25
51-069	45.19	X 5-1/2"	25
51-070	42.40	X 6"	25

#316

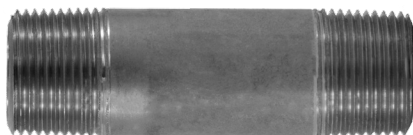
Part # 316 S.S.	List Price	Approx. Wt. Lbs.
52-060	15.42	0.10
52-061	18.96	0.14
52-062	24.90	0.14
52-063	32.44	0.19
52-064	32.94	0.24
52-065	43.65	0.28
52-066	42.81	0.32
52-067	54.96	0.34
52-068	59.94	0.37
52-069	66.18	0.42
52-070	71.79	0.48

**3/4" - 14****3/4" DIAMETER
SCH 80 SEAMLESS**

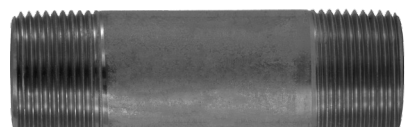
Part # 304 S.S.	List Price	Length	Box
51-080	18.31	X Close (1-3/8")	25
51-081	16.91	X 1-1/2"	25
51-082	20.28	X 2"	25
51-083	24.34	X 2-1/2"	25
51-084	28.41	X 3"	25
51-085	32.50	X 3-1/2"	25
51-086	42.21	X 4"	25
51-087	46.92	X 4-1/2"	25
51-088	44.72	X 5"	25
51-089	56.34	X 5-1/2"	25
51-090	60.99	X 6"	25



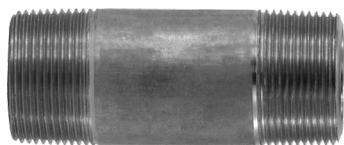
Part # 316 S.S.	List Price	Approx. Wt. Lbs.
52-080	21.54	0.12
52-081	21.50	0.16
52-082	28.12	0.22
52-083	36.66	0.32
52-084	39.96	0.33
52-085	49.34	0.38
52-086	55.66	0.43
52-087	53.77	0.47
52-088	59.26	0.49
52-089	64.77	0.57
52-090	75.31	0.57

**1" - 11 1/2****1" DIAMETER
SCH 80 SEAMLESS**

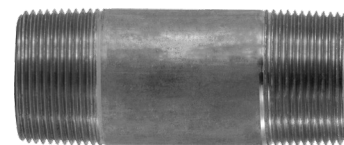
Part # 304 S.S.	List Price	Length	Box
51-100	20.09	X Close (1-1/2")	25
51-101	25.16	X 2"	25
51-102	29.86	X 2-1/2"	25
51-103	34.91	X 3"	25
51-104	39.96	X 3-1/2"	25
51-105	45.01	X 4"	25
51-106	50.05	X 4-1/2"	25
51-107	63.57	X 5"	25
51-108	60.19	X 5-1/2"	25
51-109	65.23	X 6"	25



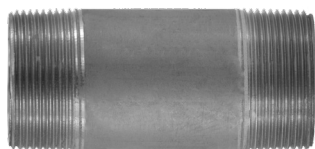
Part # 316 S.S.	List Price	Approx. Wt. Lbs.
52-100	27.94	0.20
52-101	35.43	0.32
52-102	49.07	0.44
52-103	53.54	0.47
52-104	66.32	0.52
52-105	74.98	0.56
52-106	72.43	0.60
52-107	92.25	0.63
52-108	87.41	0.68
52-109	109.50	0.82

STAINLESS STEEL**SCH 80 STAINLESS STEEL NIPPLES**

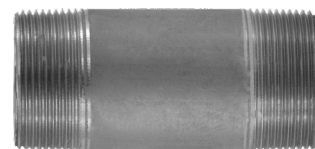
1 1/4" - 11 1/2"

**1-1/4" DIAMETER
SCH 80 SEAMLESS**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
51-120	30.07	X Close (1-5/8")	10	0.26	52-120	38.23
51-121	33.05	X 2"	10	1.03	52-121	45.47
51-122	39.15	X 2-1/2"	10	0.44	52-122	54.51
51-123	45.82	X 3"	10	0.48	52-123	64.18
51-124	52.48	X 3-1/2"	10	0.52	52-124	73.80
51-125	59.14	X 4"	10	0.65	52-125	96.47
51-126	65.79	X 4-1/2"	10	0.72	52-126	93.10
51-127	72.44	X 5"	10	0.78	52-127	102.75
51-128	79.10	X 5-1/2"	10	0.88	52-128	129.66
51-129	85.76	X 6"	10	1.10	52-129	122.03



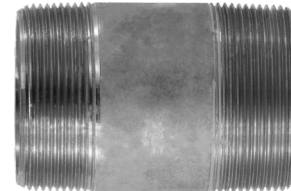
1-1/2" - 11 1/2"

**1-1/2" DIAMETER
SCH 80 SEAMLESS**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
51-140	35.39	X Close (1-3/4")	10	0.45	52-140	47.21
51-141	36.23	X 2"	10	0.50	52-141	52.24
51-142	43.77	X 2-1/2"	10	0.64	52-142	73.46
51-143	51.32	X 3"	10	0.77	52-143	75.03
51-144	58.92	X 3-1/2"	10	0.82	52-144	99.72
51-145	66.45	X 4"	10	0.87	52-145	97.82
51-146	74.03	X 4-1/2"	10	1.03	52-146	125.99
51-147	81.57	X 5"	10	1.40	52-147	120.60
51-148	89.13	X 5-1/2"	10	1.55	52-148	138.47
51-149	96.69	X 6"	10	1.64	52-150	119.49



2" - 11 1/2"

**2" DIAMETER
SCH 80 SEAMLESS**

Part # 304 S.S.	List Price	Length	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
51-160	61.55	X Close (2")	10	0.60	52-160	73.33
51-161	68.54	X 2-1/2"	10	0.82	52-161	96.82
51-162	73.72	X 3"	10	1.08	52-162	97.98
51-163	79.02	X 3-1/2"	10	1.26	52-163	130.35
51-164	102.99	X 4"	10	1.45	52-164	128.01
51-165	99.49	X 4-1/2"	10	1.68	52-165	165.01
51-166	109.74	X 5"	10	1.82	52-166	182.40
51-167	119.98	X 5-1/2"	10	1.97	52-167	199.71
51-168	130.24	X 6"	10	2.29	52-168	217.05

304 & 316 150# SS FITTINGS**STAINLESS STEEL****150# 304 & 316 Stainless Steel Fittings**

Our high quality standard pattern 150lb rated stainless steel threaded fittings are manufactured to the highest standards. All stainless steel fittings are monitored by our quality control personnel for strict compliance with applicable standards and specifications.

These stainless steel pipe fittings are excellent for uses that involve chemicals or liquids that may be corrosive. Along with fighting corrosion, a stainless steel pipe fitting will prevent contamination making it useful to many professionals.

- Use with air, water, oil, natural gas, steam
- NPT and FNPT threads conform to ASME B1.20.1
- Maximum Pressure: 150 psi @ 72 F; 150 psi @ 366 F for steam
- Maximum Steam Pressure: 150 psi
- Material Conforms to ASTM A-351. Class 150 Pressure Ratings
- Manufacturing facility is ISO 9001:2008
- 304 Stainless Steel is economically priced, chromium-nickel material that offers very good corrosion resistance. 316 Stainless Steel has higher nickel content and contains molybdenum for even better corrosion resistance.

HIGH PRESSURE 1000# BARSTOCK**NEW****1000#**

- Stainless bar stock dimensions conform to MSS SP-114
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Fittings meet applicable chemical & physical properties

HIGH PRESSURE 3000# FORGED

A182 and ANSI/ASME B16.11.

**3000#**

- Use with air, water, oil, natural gas, steam
- Maximum Pressure:
 - Type 304 SS: 2,570 psi @ 72°F;
1,965 psi @ 350°F for steam
 - Type 316 SS: 3,000 psi @ 72°F
2810 psi @ 350°F for steam
- Pipe Nipples and Pipe: Use threaded Schedule 80 thickwall stainless steel

STAINLESS STEEL**304 & 316 150# SS FITTINGS****90° ELBOW
304 & 316 150#**

Part # 304 S.S	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-100	5.88	1/8"	25	0.06	63-100	7.54
62-101	5.88	1/4"	25	0.06	63-101	7.54
62-102	7.30	3/8"	25	0.11	63-102	9.15
62-103	7.77	1/2"	25	0.13	63-103	10.11
62-104	11.16	3/4"	25	0.20	63-104	14.66
62-105	15.81	1"	10	0.33	63-105	18.40
62-106	27.74	1-1/4"	10	0.55	63-106	31.54
62-107	36.93	1-1/2"	5	0.77	63-107	42.07
62-108	46.82	2"	5	1.10	63-108	53.19
62-109	106.67	2-1/2"	1	2.09	63-109	86.81
62-110	135.91	3"	1	2.84	63-110	121.02
62-112	265.23	4"	1	5.00	63-112	295.40

**90° STREET ELBOW
304 & 316 150#**

Part # 304 S.S	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-160	8.40	1/8"	25	0.04	63-160	10.09
62-161	8.40	1/4"	25	0.07	63-161	10.29
62-162	10.11	3/8"	25	0.09	63-162	12.65
62-163	11.90	1/2"	25	0.15	63-163	14.88
62-164	16.51	3/4"	25	0.24	63-164	19.61
62-165	28.56	1"	10	0.31	63-165	31.31
62-166	41.48	1-1/4"	10	0.51	63-166	46.79
62-167	49.07	1-1/2"	5	0.84	63-167	52.12
62-168	66.45	2"	5	1.26	63-168	74.45

**45° STREET ELBOW
304 & 316 150#**

Part # 304 S.S	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-180	7.43	1/8"	25	0.04	63-180	8.98
62-181	7.43	1/4"	25	0.07	63-181	8.98
62-182	8.74	3/8"	25	0.09	63-182	10.96
62-183	9.60	1/2"	25	0.13	63-183	12.03
62-184	14.01	3/4"	25	0.20	63-184	15.80
62-185	17.10	1"	10	0.33	63-185	19.79
62-186	27.39	1-1/4"	10	0.49	63-186	31.14
62-187	32.59	1-1/2"	5	0.66	63-187	37.03
62-188	45.85	2"	5	0.93	63-188	51.78

304 & 316 150# SS FITTINGS**STAINLESS STEEL****TEE
304 & 316 150#**

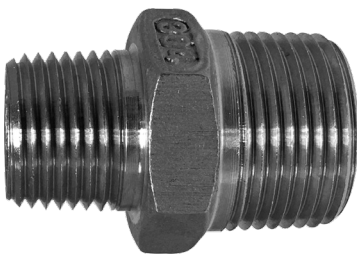
Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-250	7.89	1/8"	25	0.07	63-250	9.37
62-251	7.89	1/4"	25	0.07	63-251	9.37
62-252	10.05	3/8"	25	0.11	63-252	12.42
62-253	10.54	1/2"	25	0.20	63-253	13.09
62-254	16.78	3/4"	25	0.29	63-254	19.31
62-255	21.37	1"	10	0.42	63-255	24.26
62-256	42.50	1-1/4"	5	0.66	63-256	48.27
62-257	52.83	1-1/2"	5	0.99	63-257	58.56
62-258	67.86	2"	3	1.43	63-258	75.44
62-259	132.31	2-1/2"	1	1.43		
62-260	209.76	3"	1	3.66		

**CROSS
304 & 316 150#**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
		1/8"	25	0.06	63-390	16.95
62-391	13.72	1/4"	25	0.09	63-391	16.95
62-392	16.36	3/8"	25	0.13	63-392	19.94
62-393	20.14	1/2"	25	0.29	63-393	24.74
62-394	34.46	3/4"	10	0.37	63-394	43.23
62-395	51.01	1"	10	0.64	63-395	52.19
62-396	60.56	1-1/4"	5	0.97	63-396	75.44
62-397	75.04	1-1/2"	5	1.26	63-397	94.15
62-398	107.42	2"	1	1.54	63-398	129.70

**HEX NIPPLE
304 & 316 150#**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-720	5.73	1/8"	1	0.02	63-720	6.43
62-721	5.39	1/4"	1	0.04	63-721	6.43
62-722	6.36	3/8"	1	0.07	63-722	7.13
62-723	7.55	1/2"	1	0.11	63-723	8.44
62-724	9.28	3/4"	1	0.18	63-724	11.04
62-725	13.59	1"	1	0.22	63-725	15.19
62-726	20.81	1-1/4"	1	0.37	63-726	24.81
62-727	26.30	1-1/2"	1	0.46	63-727	29.44
62-728	42.24	2"	1	0.61	63-728	60.02

**REDUCING HEX NIPPLE
304 & 316 150#****NEW**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-740	5.93	1/4" x 1/8"	1	0.04	63-740	7.07
62-741	7.00	3/8" x 1/8"	1	0.07	63-741	7.85
62-742	7.00	3/8" x 1/4"	1	0.07	63-742	7.85
62-744	8.31	1/2" x 1/4"	1	0.09	63-744	9.29
62-745	8.31	1/2" x 3/8"	1	0.11	63-745	9.29
62-747	11.53	3/4" x 1/4"	1	0.15	63-747	13.36
62-748	10.21	3/4" x 3/8"	1	0.15	63-748	12.15
62-749	10.21	3/4" x 1/2"	1	0.15	63-749	12.15

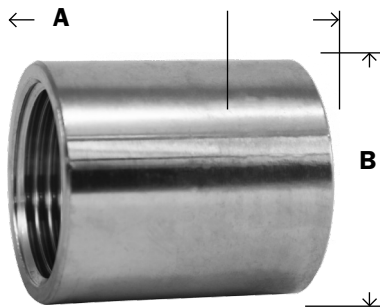
STAINLESS STEEL**304 & 316 150# SS FITTINGS****COUPLING
304 & 316 150#**

Part # 304 S.S	List Price	Size*	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-413	6.28	1/2"	25	0.13	63-413	7.27
62-414	9.07	3/4"	25	0.18	63-414	10.50
62-415	13.78	1"	25	0.24	63-415	15.66
62-416	44.19	1-1/4"	10	0.44	63-416	24.87
62-417	26.00	1-1/2"	10	0.51	63-417	29.57
62-418	36.65	2"	5	0.79	63-418	41.62
62-419	80.43	2-1/2"	1	1.28	63-419	97.79
62-420	103.98	3"	1	1.87	63-420	126.32
62-421	161.65	4"	1	2.80	63-421	195.10

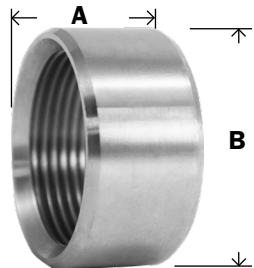
* For 1/8, 1/4 and 3/8 see OD Machined Couplings below

**REDUCING COUPLING
304 & 316 150#**

Part # 304 S.S	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-430	6.14	1/4" x 1/8"	25	0.04	63-430	7.00
62-431	7.77	3/8" x 1/8"	25	0.04	63-431	7.77
62-432	6.83	3/8" x 1/4"	25	0.04	63-432	7.77
62-433	9.32	1/2" x 1/8"	25	0.09	63-433	9.32
62-434	6.51	1/2" x 1/4"	25	0.09	63-434	9.32
62-435	6.51	1/2" x 3/8"	25	0.09	63-435	9.32
62-455	11.56	3/4" x 1/8"	25	0.13	63-455	11.56
62-436	9.81	3/4" x 1/4"	25	0.11	63-436	11.96
62-437	9.81	3/4" x 3/8"	25	0.13	63-437	11.96
62-438	9.81	3/4" x 1/2"	25	0.15	63-438	11.96
62-440	19.73	1" x 3/8"	25	0.22	63-440	19.73
62-441	13.41	1" x 1/2"	25	0.24	63-441	19.73
62-442	13.41	1" x 3/4"	25	0.24	63-442	19.73
62-445	19.55	1-1/4" x 3/4"	10	0.33	63-445	25.76
62-446	19.55	1-1/4" x 1"	10	0.35	63-446	25.76
62-447	28.19	1-1/2" x 1/2"	10	0.40	63-447	34.40
62-448	28.19	1-1/2" x 3/4"	10	0.42	63-448	34.40
62-449	28.19	1-1/2" x 1"	10	0.44	63-449	34.40
62-450	28.19	1-1/2" x 1-1/4"	10	0.46	63-450	34.40
62-452	47.09	2" x 1"	5	0.57	63-452	58.01
62-453	47.09	2" x 1-1/4"	5	0.62	63-453	58.01
62-454	47.09	2" x 1-1/2"	5	0.62	63-454	58.01

**OD MACHINED COUPLING
304 & 316 150#**

Part # 304 S.S	List Price	Size	A	B	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-410B	4.92	1/8"	0.67	0.56	25	0.04	63-410B	5.72
62-411B	4.78	1/4"	0.94	0.71	25	0.04	63-411B	5.72
62-412B	6.13	3/8"	1.01	0.84	25	0.07	63-412B	6.24
62-413B	6.60	1/2"	1.33	1.01	25	0.09	63-413B	8.75
62-414B	9.14	3/4"	1.41	1.27	25	0.16	63-414B	12.29
62-415B	17.97	1"	1.69	1.54	10	0.21	63-415B	19.96
62-416B	23.47	1-1/4"	1.93	1.90	10	0.31	63-416B	27.99
62-417B	31.30	1-1/2"	1.93	2.16	5	0.41	63-417B	35.00
62-418B	45.40	2"	2.06	2.66	5	0.68	63-418B	52.47

304 & 316 150# SS FITTINGS**STAINLESS STEEL****HALF COUPLING
304 & 316 150#**

Part # 304 S.S.	List Price	Size	A	B	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-771	2.55	1/4"	0.43	0.69	25	0.02	63-771	2.69
62-772	2.76	3/8"	0.41	0.81	25	0.02	63-772	5.25
62-773	3.83	1/2"	0.59	0.98	25	0.09	63-773	4.58
62-774	5.12	3/4"	0.67	1.22	25	0.11	63-774	5.82
62-775	6.57	1"	0.79	1.47	25	0.13	63-775	14.77
62-776	10.73	1-1/4"	0.95	1.83	10	0.24	63-776	17.76
62-777	13.76	1-1/2"	0.94	2.10	10	0.26	63-777	22.21
62-778	21.50	2"	1.06	2.60	5	0.44	63-778	26.47

**UNION
304 & 316 150#**

• Stainless Steel Seat



Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-600	19.86	1/8"	25	0.09	63-600	22.52
62-601	19.86	1/4"	25	0.13	63-601	22.52
62-602	20.23	3/8"	25	0.22	63-602	22.91
62-603	21.90	1/2"	25	0.26	63-603	24.87
62-604	27.74	3/4"	25	0.46	63-604	31.55
62-605	41.85	1"	10	0.60	63-605	47.63
62-606	72.60	1-1/4"	5	0.90	63-606	82.35
62-607	82.11	1-1/2"	5	1.10	63-607	93.47
62-608	98.30	2"	1	1.81	63-608	111.47
62-610	335.29	3"	1	3.40	63-610	398.32

**HEX BUSHING
304 & 316 150#**

Part # 304 S.S.	List Price	Size M x F	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-500	3.83	1/4" x 1/8"	25	0.04	63-500	4.32
62-501	3.83	3/8" x 1/8"	25	0.04	63-501	4.94
62-502	4.19	3/8" x 1/4"	25	0.04	63-502	4.94
62-503	5.30	1/2" x 1/8"	25	0.09		
62-504	5.30	1/2" x 1/4"	25	0.09	63-504	5.80
62-505	5.30	1/2" x 3/8"	25	0.11	63-505	5.80
62-506	8.47	3/4" x 1/8"	25	0.13	63-506	8.62
62-507	4.36	3/4" x 1/4"	25	0.15	63-507	8.62
62-508	7.75	3/4" x 3/8"	25	0.15	63-508	9.74
62-509	7.75	3/4" x 1/2"	25	0.15	63-509	8.62
62-510	10.77	1" x 1/4"	25	0.22	63-510	12.31
62-511	10.77	1" x 3/8"	25	0.24	63-511	12.31
62-512	10.77	1" x 1/2"	25	0.24	63-512	12.31
62-513	10.77	1" x 3/4"	25	0.24	63-513	12.31
62-516	12.16	1-1/4" x 1/2"	25	0.37	63-516	24.05
62-517	19.28	1-1/4" x 3/4"	25	0.37	63-517	24.05
62-518	19.28	1-1/4" x 1"	25	0.37	63-518	24.05
62-521	23.07	1-1/2" x 1/2"	25	0.44	63-521	28.43
62-522	23.07	1-1/2" x 3/4"	25	0.46	63-522	28.43
62-532	28.20	1-1/2" x 1"	25	0.49	63-523	28.43
62-524	23.07	1-1/2" x 1-1/4"	25	0.46	63-524	28.43
62-527	35.19	2" x 1/2"	10	0.66		
62-528	35.19	2" x 3/4"	10	0.66	63-528	40.38
62-529	35.19	2" x 1"	10	0.66	63-529	40.38
62-530	35.19	2" x 1-1/4"	10	0.68	63-530	40.38
62-531	35.19	2" x 1-1/2"	10	0.68	63-531	40.38
62-534	60.30	2-1/2" x 1-1/2"	5	1.23	63-534	68.61
62-535	60.30	2-1/2" x 2"	5	1.21	63-535	68.61
62-538	92.40	3" x 2"	5	1.72	63-538	105.50
62-539	92.40	3" x 2-1/2"	5	1.81		
62-543	168.14	4" x 3"	1	2.43		

STAINLESS STEEL**304 & 316 150# SS FITTINGS****HEX LOCKNUT
304 & 316 150#**

• Straight Thread



Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-700	12.09	1/8"	25	0.02		
62-701	12.09	1/4"	25	0.05	63-701	13.18
62-702	12.09	3/8"	25	0.06	63-702	13.18
62-703	12.09	1/2"	25	0.07	63-703	13.18
62-704	14.74	3/4"	25	0.11	63-704	16.54
62-705	16.72	1"	25	0.15	63-705	18.59
62-706	34.58	1-1/4"	25	0.22	63-706	37.64
62-707	34.62	1-1/2"	25	0.29	63-707	46.85
62-708	38.07	2"	10	0.35	63-708	41.31

**CAP - CAST
304 & 316 150#**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-470	2.96	1/8"	25	0.02	63-470	3.59
62-471	4.24	1/4"	25	0.02	63-471	4.83
62-472	4.99	3/8"	25	0.04	63-472	5.69
62-473	5.18	1/2"	25	0.07	63-473	6.59
62-474	6.48	3/4"	25	0.11	63-474	7.57
62-475	9.73	1"	10	0.18	63-475	11.59
62-476	17.63	1-1/4"	10	0.29	63-476	22.77
62-477	23.12	1-1/2"	10	0.40	63-477	29.21
62-478	29.48	2"	10	0.60	63-478	37.39
62-480	73.52	3"	1	1.28	63-480	77.06
62-481	122.28	4"	1	1.54		

**HEX CAP - BARSTOCK
304 & 316 150#**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-075	1.80	1/8"	25	0.04	63-075	3.21
62-076	2.43	1/4"	25	0.09	63-076	3.21
62-077	3.00	3/8"	25	0.11	63-077	3.21
62-078	2.42	1/2"	25	0.13	63-078	3.84
62-079	3.56	3/4"	25	0.22	63-079	4.98
62-080	7.32	1"	10	0.22	63-080	8.56
62-081	11.67	1-1/4"	10	0.29	63-081	15.45
62-082	14.40	1-1/2"	5	0.40	63-082	46.91
62-083	17.50	2"	5	0.49	63-083	28.49

**HEX SOCKET PLUG - BARSTOCK
304 & 316 150#**

Part # 316 S.S.	Size	Box	Approx. Wt. Lbs.	List Price
63-759	1/16"	1	0.03	3.53
63-760	1/8 "	1	0.05	3.16
63-761	1/4 "	1	0.07	4.50
63-762	3/8 "	1	0.10	7.68
63-763	1/2 "	1	0.14	10.57
63-764	3/4 "	1	0.21	25.33



Cam and Groove Fittings pages 321-326

304 & 316 150# SS FITTINGS**STAINLESS STEEL****CORED SQUARE HEAD PLUG****304 & 316 150#**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-670	2.54	1/8"	25	0.02	63-670	2.74
62-671	3.00	1/4"	25	0.03	63-671	3.48
62-672	4.02	3/8"	25	0.04	63-672	4.59
62-653	5.74	1/2"	25	0.06	63-653	6.48
62-654	7.00	3/4"	25	0.09	63-654	7.93
62-655	8.85	1"	25	0.13	63-655	9.90
62-656	17.63	1-1/4"	25	0.22	63-656	23.42
62-657	21.01	1-1/2"	10	0.29	63-657	25.87
62-658	24.86	2"	10	0.46	63-658	35.70
62-660	59.56	3"	1	0.88		

SOLID SQUARE HEAD PLUG**316 150#**

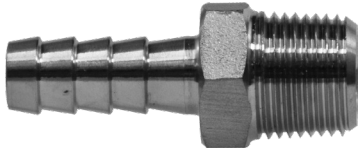
Part # 316 S.S.	Size	Box	Approx. Wt. Lbs.	List Price
63-680	1/8"	25	0.04	5.92
63-681	1/4"	25	0.04	7.96
63-682	3/8"	25	0.05	9.33
63-683	1/2"	25	0.06	14.00
63-684	3/4"	25	0.12	26.65

SOLID HEX HEAD PLUG**316 150#**

Part # 316 S.S.	Size	Box	Approx. Wt. Lbs.	List Price
63-660	1/8"	25	0.04	6.51
63-661	1/4"	25	0.06	8.20
63-662	3/8"	25	0.08	12.00
63-663	1/2"	25	0.12	21.33
63-664	3/4"	25	0.15	28.70
63-665	1"	25	0.24	41.65

CORED HEX HEAD PLUG**304 & 316 150#**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-630	2.81	1/8"	25	0.02	63-630	3.49
62-631	2.81	1/4"	25	0.02	63-631	3.49
62-632	3.48	3/8"	25	0.04	63-632	3.94
62-633	5.49	1/2"	25	0.07	63-633	6.59
62-634	6.90	3/4"	25	0.11	63-634	8.32
62-635	11.90	1"	25	0.18	63-635	13.25
62-636	19.09	1-1/4"	25	0.26	63-636	22.88
62-637	20.90	1-1/2"	10	0.33	63-637	29.49
62-638	28.84	2"	10	0.55	63-638	39.08

STAINLESS STEEL**304 & 316 150# SS FITTINGS****HOSE NIPPLE
304 & 316 150#**

HOSE BARB X MALE PIPE

Part # 304 S.S	List Price	Hose I.D. x Male Pipe	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
73-951	6.38	1/4"	1	0.04	973-951	7.14
73-952	10.88	3/8"	1	0.07	973-952	10.16
73-953	11.92	1/2"	1	0.13	973-953	16.35
73-954	14.33	3/4"	1	0.20	973-954	18.89
73-955	17.01	1"	1	0.33	973-955	20.58
73-956	27.73	1-1/4"	1	0.47	973-956	27.96
73-957	31.31	1-1/2"	1	0.67	973-957	48.61
73-958	44.31	2"	1	0.88	973-958	51.79
73-959	104.00	2-1/2"	1	1.45	973-959	133.67
73-960	119.24	3"	1	1.94	973-990	164.70
73-961	377.81	4"	1	3.57	973-991	204.55

**REDUCING HOSE NIPPLE
304 & 316 150#**

HOSE BARB X MALE PIPE

Part # 304 S.S	Hose I.D. x Male Pipe	Box	Approx. Wt. Lbs.	List Price
73-970	1/4" x 1/8"	1	0.04	6.89
73-971	3/8" x 1/4"	1	0.07	8.00
73-972	1/2" x 3/8"	1	0.13	11.22
73-973	1/2" x 1/4"	1	0.13	11.59
73-974	3/4" x 1/2"	1	0.20	15.69
73-975	1" x 3/4"	1	0.33	17.65
73-976	1" x 1/2"	1	0.33	28.75
73-977	1-1/4" x 1"	1	0.46	26.93
73-979	1-1/2" x 1-1/4"	1	0.66	44.87
73-980	1-1/2" x 1"	1	0.66	32.47
73-981	2" x 1-1/2"	1	0.88	56.00
73-982	2" x 1-1/4"	1	0.88	44.78



SEE HOSE BARB SECTION FOR BARSTOCK SS HOSE NIPPLES

SS Bulkhead Fittings available with extended delivery

304 & 316 1000# SS FITTINGS**STAINLESS STEEL****BARSTOCK COUPLING
304 & 316 1000#****NEW**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-410B1	8.39	1/8"	25	0.06	63-410B1	10.26
62-411B1	10.33	1/4"	25	0.09	63-411B1	12.46
62-412B1	12.14	3/8"	25	0.10	63-412B1	14.38
62-413B1	16.48	1/2"	25	0.21	63-413B1	19.45
62-414B1	21.95	3/4"	25	0.32	63-414B1	27.06
62-415B1	36.07	1"	10	0.42	63-415B1	43.92
62-416B1	51.13	1-1/4"	10	0.64	63-416B1	66.69
62-417B1	61.89	1-1/2"	1	0.80	63-417B1	85.13
62-418B1	97.44	2"	1	1.46	63-418B1	121.77
		2-1/2"	1	2.76	63-419B1	545.04

**BARSTOCK REDUCING COUPLING
304 & 316 1000#****NEW**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-430B1	11.65	1/4" x 1/8"	25	0.10	63-430B1	16.95
62-431B1	13.63	3/8" x 1/8"	25	0.13	63-431B1	20.19
62-432B1	13.63	3/8" x 1/4"	25	0.12	63-432B1	20.19
62-433B1	17.07	1/2" x 1/8"	25	0.26	63-433B1	27.50
62-434B1	17.07	1/2" x 1/4"	25	0.25	63-434B1	27.50
62-435B1	17.07	1/2" x 3/8"	25	0.23	63-435B1	27.50
62-455B1	22.03	3/4" x 1/8"	25	0.40	63-455B1	35.07
62-436B1	22.03	3/4" x 1/4"	25	0.40	63-436B1	35.07
62-437B1	22.03	3/4" x 3/8"	25	0.38	63-437B1	35.07
62-438B1	22.03	3/4" x 1/2"	25	0.32	63-438B1	35.07
62-459B1	38.59	1" x 1/4"	10	0.60	63-459B1	58.05
62-440B1	38.59	1" x 3/8"	10	0.62	63-440B1	58.05
62-441B1	38.59	1" x 1/2"	10	0.58	63-441B1	58.05
62-442B1	38.59	1" x 3/4"	10	0.53	63-442B1	58.05
62-460B1	78.83	1-1/4" x 3/8"	10	0.85	63-460B1	58.05
62-444B1	78.83	1-1/4" x 1/2"	10	1.05	63-444B1	97.66
62-445B1	78.83	1-1/4" x 3/4"	10	1.01	63-445B1	97.66
62-446B1	78.83	1-1/4" x 1"	10	0.85	63-446B1	97.66
62-443B1	87.18	1-1/2" x 3/8"	1	1.33	63-443B1	110.12
62-447B1	87.18	1-1/2" x 1/2"	1	1.33	63-447B1	110.12
62-448B1	87.18	1-1/2" x 3/4"	1	1.25	63-448B1	110.12
62-449B1	87.18	1-1/2" x 1"	1	1.11	63-449B1	110.12
62-450B1	87.18	1-1/2" x 1-1/4"	1	0.92	63-450B1	110.12
62-458B1	135.80	2" x 1/2"	1	2.74	63-458B1	178.41
62-451B1	135.80	2" x 3/4"	1	2.64	63-451B1	178.41
62-452B1	135.80	2" x 1"	1	2.41	63-452B1	178.41
62-453B1	135.80	2" x 1-1/4"	1	2.22	63-453B1	178.41
62-454B1	135.80	2" x 1-1/2"	1	1.96	63-454B1	178.41
		2-1/2" x 2"	1	4.59	63-462B1	628.38
		3" x 2"	1	2.75	63-456B1	936.90
		3" x 2-1/2"	1	7.05	63-463B1	936.90
		4" x 2"	1	18.30	63-464B1	1650.57
		4" x 3"	1	16.47	63-457B1	1650.57

STAINLESS STEEL

304 & 316 1000# SS FITTINGS

BARSTOCK HALF COUPLING 304 & 316 1000#



NEW

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-770B1	4.61	1/8"	25	0.04	63-770B1	6.69
62-771B1	5.62	1/4"	25	0.05	63-771B1	6.88
62-772B1	6.31	3/8"	25	0.05	63-772B1	7.60
62-773B1	8.77	1/2"	25	0.11	63-773B1	10.96
62-774B1	11.62	3/4"	25	0.15	63-774B1	15.92
62-775B1	20.39	1"	10	0.22	63-775B1	25.90
62-776B1	29.75	1-1/4"	10	0.34	63-776B1	39.22
62-777B1	38.22	1-1/2"	1	0.36	63-777B1	52.41
62-778B1	52.09	2"	1	0.71		

BARSTOCK HEX BUSHING 304 & 316 1000#



NEW

Part # 304 S.S.	List Price	Size M x F	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-500B1	10.77	1/4" x 1/8"	25	0.02	63-500B1	12.56
62-501B1	11.12	3/8" x 1/8"	25	0.05	63-501B1	13.20
62-502B1	11.12	3/8" x 1/4"	25	0.03	63-502B1	13.20
62-503B1	14.63	1/2" x 1/8"	25	0.09		
62-504B1	14.63	1/2" x 1/4"	25	0.08	63-504B1	18.08
62-505B1	14.63	1/2" x 3/8"	25	0.06	63-505B1	18.08
62-506B1	20.11	3/4" x 1/8"	25	0.25	63-506B1	24.47
62-507B1	20.11	3/4" x 1/4"	25	0.19	63-507B1	24.47
62-508B1	20.11	3/4" x 3/8"	25	0.15	63-508B1	24.47
62-509B1	20.11	3/4" x 1/2"	25	0.10	63-509B1	24.47
62-510B1	29.12	1" x 1/4"	10	0.35	63-510B1	38.02
62-511B1	29.12	1" x 3/8"	10	0.30	63-511B1	38.02
62-512B1	29.12	1" x 1/2"	10	0.25	63-512B1	38.02
62-513B1	29.12	1" x 3/4"	10	0.19	63-513B1	38.02
62-514B1	56.51	1-1/4" x 1/4"	10	0.67	63-514B1	82.57
62-515B1	56.51	1-1/4" x 3/8"	10	0.63	63-515B1	82.57
62-516B1	56.51	1-1/4" x 1/2"	10	0.62	63-516B1	82.57
62-517B1	56.51	1-1/4" x 3/4"	10	0.50	63-517B1	82.57
62-518B1	56.51	1-1/4" x 1"	10	0.35	63-518B1	82.57
62-519B1	73.20	1-1/2" x 1/4"	1	0.95	63-519B1	97.76
62-520B1	73.20	1-1/2" x 3/8"	1	0.90	63-520B1	97.76
62-521B1	73.20	1-1/2" x 1/2"	1	0.89	63-521B1	97.76
62-522B1	73.20	1-1/2" x 3/4"	1	0.81	63-522B1	97.76
62-523B1	73.20	1-1/2" x 1"	1	0.63	63-523B1	97.76
62-524B1	73.20	1-1/2" x 1-1/4"	1	0.37	63-524B1	97.76
62-527B1	105.74	2" x 1/2"	1	1.65	63-527B1	138.89
62-528B1	105.74	2" x 3/4"	1	1.53	63-528B1	138.89
62-529B1	105.74	2" x 1"	1	1.35	63-529B1	138.89
62-530B1	105.74	2" x 1-1/4"	1	1.06	63-530B1	138.89
62-531B1	105.74	2" x 1-1/2"	1	0.81	63-531B1	138.89
62-532B1	192.58	2-1/2" x 1"	1	2.90	63-532B1	268.40
62-533B1	192.58	2-1/2" x 1-1/4"	1	3.80	63-533B1	268.40
62-534B1	192.58	2-1/2" x 1-1/2"	1	2.13	63-534B1	268.40
62-535B1	192.58	2-1/2" x 2"	1	1.32	63-535B1	268.40
62-550B1	283.96	3" x 1"	1	4.50	63-550B1	342.70
62-549B1	283.96	3" x 1-1/4"	1	4.16	63-549B1	342.70
62-537B1	283.96	3" x 1-1/2"	1	3.82	63-537B1	342.70
62-538B1	283.96	3" x 2"	1	5.29	63-538B1	342.70
62-539B1	283.96	3" x 2-1/2"	1	1.95	63-539B1	342.70

304 & 316 1000# SS FITTINGS**STAINLESS STEEL****BARSTOCK CAP
304 & 316 1000#****NEW**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-470B1	7.66	1/8"	25	0.07	63-470B1	11.00
62-471B1	7.66	1/4"	25	0.06	63-471B1	11.00
62-472B1	10.35	3/8"	25	0.09	63-472B1	14.66
62-473B1	15.83	1/2"	25	0.15	63-473B1	15.85
62-474B1	15.48	3/4"	25	0.21	63-474B1	23.17
62-475B1	22.74	1"	10	0.44	63-475B1	35.61
62-476B1	62.31	1-1/4"	10	0.64	63-476B1	105.20
62-477B1	71.99	1-1/2"	1	0.92	63-477B1	115.01
62-478B1	91.26	2"	1	1.33	63-478B1	136.41
		2-1/2"	1		63-479B1	382.29

**BARSTOCK SQUARE HEAD PLUG
304 & 316 1000#****NEW**

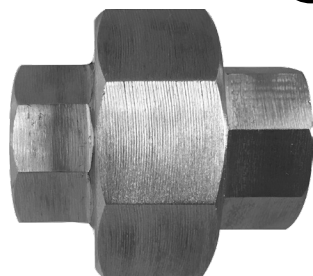
Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-670B1	7.91	1/8"	25	0.02	63-670B1	9.16
62-671B1	9.00	1/4"	25	0.04	63-671B1	9.16
62-672B1	11.33	3/8"	25	0.06	63-672B1	13.42
62-653B1	13.58	1/2"	25	0.11	63-653B1	16.39
62-654B1	18.30	3/4"	25	0.18	63-654B1	22.67
62-655B1	28.10	1"	10	0.39	63-655B1	33.55
62-656B1	64.84	1-1/4"	10	0.63	63-656B1	80.86
62-657B1	69.17	1-1/2"	1	0.91	63-657B1	87.80
62-658B1	80.79	2"	1	1.46	63-658B1	109.73

**BARSTOCK HEX HEAD PLUG
304 & 316 1000#****NEW**

Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-630B1	6.22	1/8"	25	0.03	63-630B1	7.54
62-631B1	6.45	1/4"	25	0.05	63-631B1	7.93
62-632B1	8.08	3/8"	25	0.08	63-632B1	9.44
62-633B1	10.75	1/2"	25	0.14	63-633B1	13.68
62-634B1	15.11	3/4"	25	0.25	63-634B1	19.62
62-635B1	25.27	1"	10	0.45	63-635B1	32.25
62-636B1	51.07	1-1/4"	10	0.97	63-636B1	73.59
62-637B1	63.60	1-1/2"	1	1.31	63-637B1	91.42
62-638B1	98.48	2"	1	2.20	63-638B1	136.99
62-639B1	164.62	2-1/2"	1	3.93	63-639B1	286.04
62-640B1	212.70	3"	1	5.90	63-640B1	369.59

**BARSTOCK UNIONS
304 & 316 1000#**

• Stainless Steel Seat

**NEW**

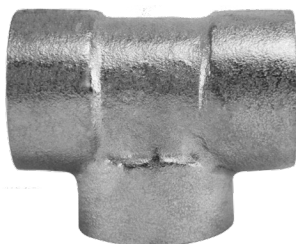
Part # 304 S.S.	List Price	Size	Box	Approx. Wt. Lbs.	Part # 316 S.S.	List Price
62-600B1	38.59	1/8"	25	0.28	63-600B1	44.99
62-601B1	38.59	1/4"	25	0.25	63-601B1	44.99
62-602B1	46.31	3/8"	25	0.32	63-602B1	54.74
62-603B1	57.78	1/2"	25	0.38	63-603B1	68.80
62-604B1	79.14	3/4"	25	0.64	63-604B1	97.02
62-605B1	114.90	1"	10	0.92	63-605B1	139.94
62-606B1	211.10	1-1/4"	10	1.33	63-606B1	249.95
62-607B1	248.18	1-1/2"	1	2.15	63-607B1	299.63
62-608B1	313.31	2"	1	2.90	63-608B1	395.82
		2-1/2"	1	8.50	63-609B1	1165.79

STAINLESS STEEL**304 & 316 3000# SS FITTINGS****90° ELBOW
304 & 316 3000# FORGED**

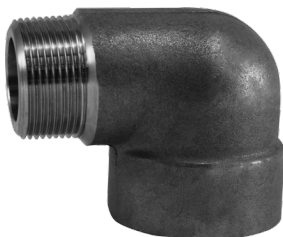
Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-100	17.35	1/8"	0.12	105-100	24.47
103-101	21.86	1/4"	0.18	105-101	24.47
103-102	31.86	3/8"	0.29	105-102	32.74
103-103	33.90	1/2"	0.55	105-103	41.69
103-104	49.02	3/4"	0.77	105-104	65.81
103-105	75.06	1"	1.17	105-105	104.93
103-106	85.36	1-1/4"	1.81	105-106	141.80
103-107	177.00	1-1/2"	2.27	105-107	241.53
103-108	172.87	2"	3.75	105-108	336.34

**45° ELBOW
304 & 316 3000# FORGED**

Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-180	49.62	1/8"	0.11	105-180	63.13
103-181	49.62	1/4"	0.18	105-181	63.13
103-182	49.62	3/8"	0.22	105-182	63.13
103-183	49.62	1/2"	0.44	105-183	63.13
103-184	67.62	3/4"	0.60	105-184	81.45
103-185	93.30	1"	0.90	105-185	108.52
103-186	105.78	1-1/4"	1.50	105-186	140.53
103-187	165.18	1-1/2"	1.81	105-187	189.18
103-188	152.86	2"	3.11	105-188	230.08

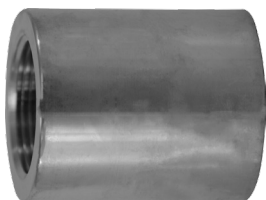
**TEE
304 & 316 3000# FORGED**

Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-250	22.30	1/8"	0.18	105-250	32.75
103-251	28.92	1/4"	0.26	105-251	32.75
103-252	40.56	3/8"	0.37	105-252	44.68
103-253	45.96	1/2"	0.68	105-253	53.51
103-254	60.72	3/4"	0.95	105-254	82.47
103-255	105.18	1"	1.52	105-255	139.75
103-256	123.40	1-1/4"	2.36	105-256	197.46
103-257	245.76	1-1/2"	3.06	105-257	297.90
103-258	217.57	2"	4.76	105-258	398.53

**STREET ELBOW
304 3000# FORGED**

Part # 304	Size	Approx. Wt. Lbs.	List Price
103-160	1/8"	0.18	30.65
103-161	1/4"	0.24	36.06
103-162	3/8"	0.49	51.66
103-163	1/2"	0.68	49.63
103-164	3/4"	1.17	71.85
103-165	1"	2.25	111.06
103-166	1-1/4"	2.49	278.67
103-167	1-1/2"	4.43	381.66

- for Socket Weld 304 fittings replace the 103 prefix with 104 prefix.
- for Socket Weld 316 fittings replace the 105 prefix with 106 prefix.

304 & 316 3000# SS FITTINGS**STAINLESS STEEL****COUPLING****304 & 316 3000# BARSTOCK**

Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-410	7.98	1/8"	0.11	105-410	8.94
103-411	8.70	1/4"	0.09	105-411	8.94
103-412	10.14	3/8"	0.13	105-412	15.77
103-413	12.24	1/2"	0.29	105-413	14.41
103-414	16.32	3/4"	0.42	105-414	19.95
103-415	27.66	1"	0.99	105-415	33.77
103-416	47.92	1-1/4"	1.79	105-416	69.61
103-417	72.30	1-1/2"	2.38	105-417	83.32
103-418	79.58	2"	3.09	105-418	122.03
103-419	211.34	2-1/2"	5.05	105-419	346.53
103-420	300.83	3"	7.45	105-420	500.75
103-421	655.92	4"	13.85		

REDUCING COUPLING**304 & 316 3000# BARSTOCK**

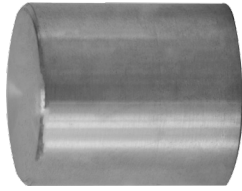
Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-434	19.47	1/2" x 1/4"	0.29	105-434	25.54
103-435	19.68	1/2" x 3/8"	0.29	105-435	23.53
103-437	28.19	3/4" x 3/8"	0.42	105-437	34.46
103-438	35.55	3/4" x 1/2"	0.42	105-438	34.46
103-441	38.70	1" x 1/2"	0.99	105-441	59.64
103-442	41.62	1" x 3/4"	0.99	105-442	59.64
103-445	95.82	1-1/4" x 3/4"	1.79	105-445	89.47
103-446	66.11	1-1/4" x 1"	1.79	105-446	89.47
103-449	71.43	1-1/2" x 1"	2.36	105-449	113.90
103-450	71.43	1-1/2" x 1-1/4"	3.09	105-450	113.90
103-452	102.12	2" x 1"	3.09	105-452	162.93
103-453	102.12	2" x 1-1/4"	3.09	105-453	162.93
103-454	172.53	2" x 1-1/2"		105-454	162.93

HALF COUPLING**304 & 316 3000# BARSTOCK**

Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-770	6.34	1/8"	0.04	105-770	5.52
103-771	10.73	1/4"	0.05	105-771	6.74
103-772	7.86	3/8"	0.07	105-772	8.35
103-773	9.21	1/2"	0.13	105-773	12.24
103-774	12.57	3/4"	0.22	105-774	13.90
103-775	20.75	1"	0.51	105-775	23.04
103-776	33.30	1-1/4"	0.75	105-776	43.76
103-777	43.79	1-1/2"	1.19	105-777	58.32
103-778	61.92	2"	1.54	105-778	83.31

UNION**304 & 316 3000# BARSTOCK**

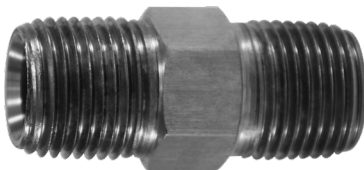
Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-600	46.42	1/8"	0.62	105-600	59.14
103-601	60.30	1/4"	0.62	105-601	59.14
103-602	49.62	3/8"	0.53	105-602	68.49
103-603	64.50	1/2"	0.75	105-603	68.58
103-604	78.96	3/4"	1.06	105-604	89.42
103-605	98.13	1"	1.70	105-605	174.76
103-606	155.79	1-1/4"	2.27	105-606	213.15
103-607	215.64	1-1/2"	3.59	105-607	268.43
103-608	221.97	2"	5.36	105-608	341.30

STAINLESS STEEL**304 & 316 3000# SS FITTINGS****CAPS
304 & 316 3000# BARSTOCK**

Part # 304	List Price	Size	Approx. Wt. Lbs.	Part # 316	List Price
103-470	9.02	1/8"	0.04	105-470	21.46
103-471	9.00	1/4"	0.09	105-471	10.77
103-472	9.60	3/8"	0.11	105-472	12.09
103-473	12.42	1/2"	0.24	105-473	17.88
103-474	16.38	3/4"	0.40	105-474	20.22
103-475	29.16	1"	0.82	105-475	31.05
		1-1/4"	1.37	105-476	46.42
103-477	53.04	1-1/2"	1.59	105-477	63.79
103-478	62.88	2"	2.40	105-478	105.26

**HEX BUSHING
304 & 316 3000# BARSTOCK**

Part # 304	List Price	Size M x F	Approx. Wt. Lbs.	Part # 316	List Price
		1/4" x 1/8"	0.02	105-500	11.79
		3/8" x 1/4"	0.02	105-502	20.31
103-504	12.68	1/2" x 1/4"	0.07	105-504	18.85
103-505	12.02	1/2" x 3/8"	0.07	105-505	19.50
103-508	15.19	3/4" x 3/8"	0.11	105-508	23.97
103-509	15.19	3/4" x 1/2"	0.11	105-509	22.81
103-512	24.64	1" x 1/2"	0.20	105-512	35.30
103-513	24.64	1" x 3/4"	0.20	105-513	35.30
103-517	46.76	1-1/4" x 3/4"	0.55	105-517	58.80
103-518	46.76	1-1/4" x 1"	0.55	105-518	55.56
103-522	75.09	1-1/2" x 3/4"	0.75	105-522	51.48
103-523	65.34	1-1/2" x 1"	0.75	105-523	52.42
103-524	52.67	1-1/2" x 1-1/4"	0.75	105-524	52.42
103-529	95.82	2" x 1"	0.99	105-529	92.71
103-530	74.03	2" x 1-1/4"	0.99	105-530	92.71
103-531	75.38	2" x 1-1/2"	0.99	105-531	95.38

**HIGH PRESSURE HEX NIPPLES
316 3000-5000# BARSTOCK**

Part # 316	Size	Approx. Wt. Lbs.	PSI	List Price
SS54044	1/4 x 1-1/2	0.61	5000	7.94
SS540442.0	1/4 x 2	0.66	5000	9.40
SS540443.0	1/4 x 3	0.72	5000	13.09
SS54046	3/8 x 1-1/2	1.35	4000	11.66
SS54048	1/2 x 1-7/8	1.52	3000	16.72
SS540482.0	1/2 x 2	1.57	3000	19.97
SS540483.0	1/2 x 3	1.64	3000	24.19

**SQUARE PLUG
316 3000# BARSTOCK**

Part # 316	Size	Approx. Wt. Lbs.	List Price
105-650	1/8"	0.04	9.61
105-651	1/4"	0.11	6.13
105-652	3/8"	0.15	8.58
105-653	1/2"	0.26	13.57
105-654	3/4"	0.44	17.31
105-655	1"	0.75	24.93
105-656	1-1/4"	1.21	58.86
105-657	1-1/2"	1.74	53.39
105-658	2"	3.24	84.91

BLACK & GALVANIZED SCH 40**STEEL NIPPLES****BLACK AND GALVANIZED STEEL NIPPLES****Product Specifications**

Welded steel pipe nipples both galvanized and black in diameters ranging from 1/8" up to 4" in lengths from close to 12" and cut-pipe up to 120". -200°-150° Temp Rating.

Technical Specifications

Standards: Product complies with ASTM A-53, A-733 and ANSI B1.20.1 for threading, dimensions and pipe specifications.

Pipe: Complies with ASTM A-53 mill tested schedule 40 and 80 for both Welded & Seamless Meets ANSI B36.1. All pipe is hydrostatic tested.

Galvanized: Zinc coating applied by hot dipped. Galvanized complying with ASTM A-123, NSF approved, RoHS compliant.

Black: Protected against oxidation with varnish coating.

Cutting Procedure: All pipe is roller cut. A visual inspection of seams, excessive galvanizing, mid-welds, poor galvanizing, bends, roundness, under and over weight of the pipe is made at the time it is cut. This is done for every length of pipe. Pipe lengths are cut to a tolerance of + or - 1/16" of the actual length.

Threading Procedure:

All pipe is chaser thread cut to American Standard Tapered Pipe Thread standards. This is 3/4" taper per foot. Pipe is visually inspected for roundness of threads and other visual faults as it is removed from the threading machine.

SCHEDULE 80 SEAMLESS

- ASTM A106 Grade B Seamless Pipe
- ASTM A 53
- WVN 351
- Standard NPT Tapered Pipe Threads as per ANSI B 1.20.1 Specification

XXS SEAMLESS

STEEL NIPPLES**BLACK & GALVANIZED SCH 40**

1/8" - 27

Wall Thickness 0.068 - GradeB - Test Pressure
700 PSI - Thread Length 0.39**1/8" DIAMETER
SCH 40 WELDED**

Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-001	1.89	X Close (3/4")	50/600	0.02	57-001	1.34
56-002	1.95	x 1-1/2"	50/600	0.03	57-002	1.51
56-003	2.19	x 2"	50/500	0.04	57-003	1.63
56-004	2.38	x 2-1/2"	100/400	0.06	57-004	1.81
56-005	2.70	x 3"	50/300	0.07	57-005	2.01
56-006	2.89	x 3-1/2"	50/300	0.08	57-006	2.19
56-007	3.19	x 4"	50/300	0.09	57-007	2.54
56-008	4.10	x 4-1/2"	50/300	0.10	57-008	3.30
56-009	5.38	x 5"	50/300	0.11	57-009	3.80
56-010	5.80	x 5-1/2"	50/300	0.12	57-010	4.17
56-011	6.05	x 6"	50/300	0.13	57-011	4.62
56-012	7.55	x 7"	50/300	0.15	57-012	5.49
56-013	7.96	x 8"	50/300	0.18	57-013	5.80
56-014	8.37	x 9"	50/300	0.21	57-014	6.03
56-015	9.07	x 10"	50/300	0.25	57-015	6.41
56-017	10.16	x 12"	50/300	0.29	57-017	6.76

1/4"-18

Wall Thickness 0.068 - GradeB - Test Pressure
700 PSI - Thread Length 0.39**1/4" DIAMETER
SCH 40 WELDED**

Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-020	1.97	X Close (7/8")	50/600	0.04	57-020	1.62
56-021	2.12	x 1-1/2"	125/500	0.06	57-021	1.72
56-022	2.46	x 2"	125/500	0.06	57-022	1.91
56-023	2.84	x 2-1/2"	100/400	0.08	57-023	2.16
56-024	3.21	x 3"	50/300	0.10	57-024	2.38
56-025	3.45	x 3-1/2"	50/300	0.12	57-025	2.64
56-026	3.60	x 4"	50/300	0.14	57-026	2.91
56-027	4.33	x 4-1/2"	50/300	0.17	57-027	3.53
56-028	5.10	x 5"	50/300	0.19	57-028	4.17
56-029	5.92	x 5-1/2"	50/300	0.21	57-029	4.60
56-030	6.18	x 6"	50/300	0.23	57-030	5.12
56-031	7.44	x 7"	50/100	0.27	57-031	6.01
56-032	7.58	x 8"	50/100	0.31	57-032	6.12
56-033	7.96	x 9"	50/100	0.35	57-033	6.66
56-034	9.56	x 10"	50/100	0.40	57-034	7.22
56-035	11.45	x 11"	50/100	0.44	57-035	7.55
56-036	11.66	x 12"	50/100	0.48	57-036	8.00
56-038	31.40	x 18"	50/100	0.54		
56-037	12.00	x 24"	5/10	0.96		



See page 209 for Standard port 2,000 Carbon Steel Ball Valve

BLACK & GALVANIZED SCH 40**STEEL NIPPLES****3/8" DIAMETER
SCH 40 WELDED**

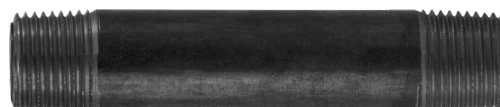
Wall Thickness 0.091 - Grade B
- Test Pressure 700 PSI - Thread



Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-040	2.31	X Close (1")	50/600	0.05	57-040	1.77
56-041	2.67	x 1-1/2"	125/500	0.07	57-041	1.89
56-042	2.76	x 2"	125/500	0.08	57-042	2.34
56-043	3.09	x 2-1/2"	100/400	0.11	57-043	2.31
56-044	3.47	x 3"	50/300	0.13	57-044	2.75
56-045	4.47	x 3-1/2"	50/300	0.16	57-045	2.91
56-046	4.47	x 4"	50/300	0.19	57-046	3.22
56-047	4.71	x 4-1/2"	50/200	0.21	57-047	3.53
56-048	6.11	x 5"	50/150	0.24	57-048	4.71
56-049	6.60	x 5-1/2"	50/150	0.27	57-049	4.99
56-050	6.94	x 6"	50/100	0.29	57-050	5.29
56-051	7.36	x 7"	50/100	0.35	57-051	6.34
56-052	7.68	x 8"	50/100	0.40	57-052	6.94
56-053	9.28	x 9"	50/100	0.45	57-053	7.39
56-054	9.56	x 10"	50/100	0.51	57-054	7.85
56-055	13.70	x 11"	50/100	0.56	57-055	8.30
56-056	10.20	x 12"	50/100	0.62	57-056	8.53
56-430	24.89	x 18"	5/10	0.71	57-430	31.64
		x 24"			57-431	23.24
		x 36"			57-433	30.03

**1/2" DIAMETER
SCH 40 WELDED**

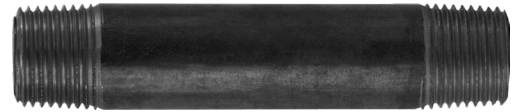
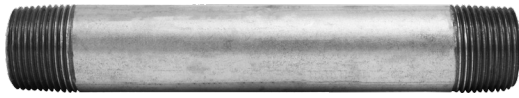
Wall Thickness 0.109 -
Grade B - Test Pressure 700
PSI - Thread Length 0.78



Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-060	1.40	X Close (1-1/8")	50/600	0.08	57-060	1.25
56-061	1.58	x 1-1/2"	125/500	0.08	57-061	1.34
56-062	1.74	x 2"	125/500	0.12	57-062	1.43
56-063	1.83	x 2-1/2"	100/400	0.15	57-063	1.51
56-064	1.97	x 3"	50/300	0.19	57-064	1.70
56-065	2.19	x 3-1/2"	50/300	0.23	57-065	1.87
56-066	2.42	x 4"	50/300	0.27	57-066	2.12
56-067	2.70	x 4-1/2"	50/200	0.30	57-067	2.28
56-068	2.92	x 5"	50/150	0.34	57-068	2.51
56-069	3.10	x 5-1/2"	50/150	0.38	57-069	2.81
56-070	3.30	x 6"	50/100	0.42	57-070	3.00
56-071	5.29	x 7"	50/100	0.49	57-071	4.55
56-072	5.78	x 8"	50/100	0.57	57-072	4.90
56-073	6.73	x 9"	50/100	0.65	57-073	5.52
56-074	6.88	x 10"	50/100	0.72	57-074	5.87
56-075	7.42	x 11"	50/100	0.80	57-075	6.56
56-076	7.83	x 12"	40/80	0.87	57-076	9.57
56-240	13.44	x 18"	1/3	1.29	57-240	15.65
56-241	21.08	x 24"	1/3	1.74	57-241	19.15
56-242	22.72	x 30"	1/3	2.16	57-242	23.56
56-243	31.24	x 36"	1/3	2.61	57-243	25.45
56-244	64.96	x 42"	1/3	3.03	57-244	54.10
56-245	39.63	x 48"	1/3	3.48	57-245	30.68
56-246	44.47	x 60"	1/3	4.35	57-246	35.64
56-247	65.65	x 72"	1/3	5.22	57-247	45.40

**3/4" DIAMETER
SCH 40 WELDED**

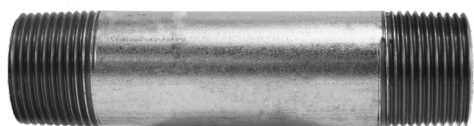
Wall Thickness 0.113 -
Grade B - Test Pressure
700 PSI - Thread Length
0.79



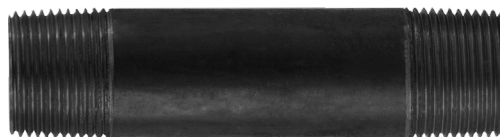
Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-080	1.87	X Close (1-3/8")	50/300	0.13	57-080	1.70
56-081	1.97	x 1-1/2"	125/250	0.10	57-081	1.79
56-082	2.12	x 2"	125/250	0.15	57-082	1.88
56-083	2.29	x 2-1/2"	50/250	0.20	57-083	2.08
56-084	2.52	x 3"	50/200	0.24	57-084	2.28
56-085	2.78	x 3-1/2"	50/150	0.29	57-085	2.53
56-086	3.05	x 4"	50/150	0.34	57-086	2.77
56-087	3.33	x 4-1/2"	50/150	0.39	57-087	3.03
56-088	3.85	x 5"	50/150	0.43	57-088	3.35
56-089	4.40	x 5-1/2"	60/120	0.48	57-089	3.61
56-090	4.28	x 6"	50/100	0.53	57-090	3.90
56-091	7.25	x 7"	50/100	0.63	57-091	5.55
56-092	7.51	x 8"	50/100	0.72	57-092	6.17
56-093	8.19	x 9"	40/80	0.82	57-093	7.41
56-094	8.23	x 10"	40/80	0.91	57-094	7.76
56-095	10.26	x 11"	30/60	1.01	57-095	7.94
56-096	9.21	x 12"	30/60	1.10	57-096	8.23
56-250	16.59	x 18"	1/3	1.63	57-250	13.29
56-251	21.28	x 24"	1/3	2.20	57-251	16.31
56-252	23.73	x 30"	1/3	2.73	57-252	21.00
56-253	27.11	x 36"	1/3	3.30	57-253	24.85
56-254	69.72	x 42"	1/3	3.83	57-254	60.28
56-255	43.44	x 48"	1/3	4.40	57-255	33.04
56-256	51.72	x 60"	1/3	5.50	57-256	40.53
56-257	57.10	x 72"	1/3	6.60	57-257	44.63



See page 210 for Full port 2,000# Carbon Steel Ball Valve

BLACK & GALVANIZED SCH 40**STEEL NIPPLES****1" DIAMETER
SCH 40 WELDED**

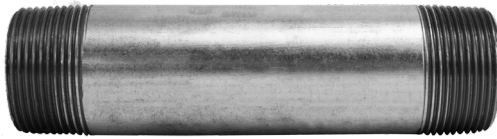
Wall Thickness 0.133 - Grade
B - Test Pressure 700 PSI -
Thread Length 0.98



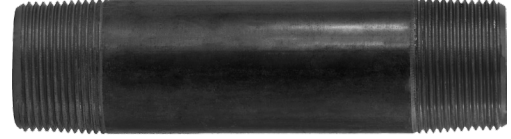
Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-100	2.75	X Close (1-1/2")	50/200	0.16	57-100	2.50
56-101	2.89	x 2"	50/150	0.23	57-101	2.77
56-102	3.15	x 2-1/2"	50/150	0.29	57-102	2.77
56-103	3.47	x 3"	50/100	0.36	57-103	3.09
56-104	4.17	x 3-1/2"	50/100	0.43	57-104	3.41
56-105	4.75	x 4"	50/100	0.50	57-105	3.78
56-106	4.74	x 4-1/2"	50/100	0.56	57-106	4.05
56-107	4.97	x 5"	50/100	0.63	57-107	4.37
56-108	5.54	x 5-1/2"	50/100	0.70	57-108	4.71
56-109	5.69	x 6"	40/80	0.77	57-109	5.12
56-110	8.53	x 7"	25/50	0.90	57-110	6.97
56-111	9.31	x 8"	25/50	1.03	57-111	7.63
56-112	18.54	x 9"	15/30	1.17	57-112	8.44
56-113	17.97	x 10"	15/30	1.30	57-113	9.06
56-114	21.97	x 11"	15/30	1.44	57-114	12.31
56-115	21.97	x 12"	15/30	1.57	57-115	10.57
56-260	27.33	x 18"	1/3	2.34	57-260	23.25
56-261	33.06	x 24"	1/3	3.14	57-261	26.90
56-262	55.31	x 30"	1/3	3.91	57-262	40.80
56-263	48.28	x 36"	1/3	4.71	57-263	38.24
56-264	88.87	x 42"	1/3	5.48	57-264	79.96
56-265	70.27	x 48"	1/3	6.28	57-265	54.66
56-266	84.30	x 60"	1/3	7.85	57-266	74.64
56-267	96.29	x 72"	1/3	9.42	57-267	126.87



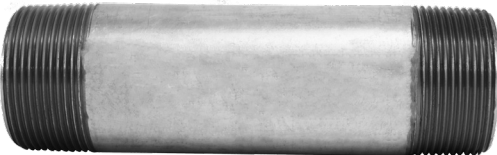
High Pressure 7,250 psi Full Port Ball Valves - see page 211

STEEL NIPPLES**BLACK & GALVANIZED SCH 40****1-1/4" DIAMETER
SCH 40 WELDED**

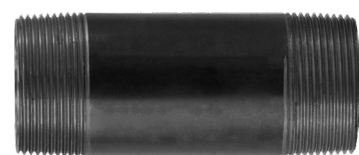
Wall Thickness 0.14 - Grade
B - Test Pressure 1300 PSI -
Thread Length 1.01



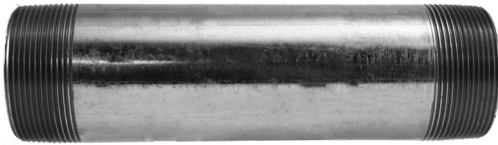
Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-120	3.70	X Close (1-5/8")	50/100	0.25	57-120	3.29
56-121	3.84	x 2"	50/100	0.32	57-121	3.53
56-122	4.18	x 2-1/2"	50/100	0.41	57-122	3.79
56-123	4.58	x 3"	50/100	0.50	57-123	4.16
56-124	5.25	x 3-1/2"	30/60	0.60	57-124	4.55
56-125	6.05	x 4"	30/60	0.69	57-125	5.04
56-126	6.72	x 4-1/2"	30/60	0.78	57-126	5.43
56-127	6.47	x 5"	25/50	0.87	57-127	5.97
56-128	7.13	x 5-1/2"	25/50	0.96	57-128	6.17
56-129	7.32	x 6"	25/50	1.06	57-129	6.60
56-130	14.19	x 7"	15/30	1.24	57-130	9.16
56-131	12.30	x 8"	15/30	1.42	57-131	10.15
56-132	20.39	x 9"	15/30	1.61	57-132	10.94
56-133	19.76	x 10"	15/30	1.79	57-133	11.71
56-134	19.98	x 11"	10/20	1.97	57-134	13.97
56-135	24.89	x 12"	10/20	2.16	57-135	21.32
56-270	32.78	x 18"	1/3	3.22	57-270	25.27
56-271	42.67	x 24"	1/3	4.32	57-271	32.78
56-272	49.77	x 30"	1/3	3.22	57-272	50.97

**1-1/2" DIAMETER
SCH 40 WELDED**

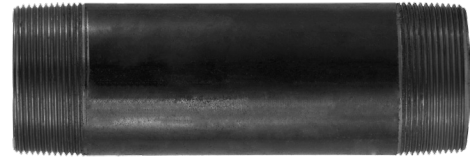
Wall Thickness 0.145 - Grade
B - Test Pressure 1300 PSI -
Thread Length 1.03



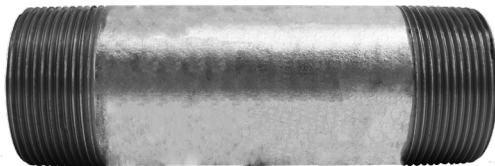
Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-140	4.62	X Close (1-3/4")	50/100	0.31	57-140	3.96
56-141	4.86	x 2"	40/80	0.37	57-141	4.08
56-142	5.10	x 2-1/2"	40/80	0.47	57-142	4.53
56-143	5.59	x 3"	40/80	0.58	57-143	5.10
56-144	6.10	x 3-1/2"	25/50	0.68	57-144	5.78
56-145	6.66	x 4"	25/50	0.78	57-145	6.13
56-146	7.49	x 4-1/2"	25/50	0.89	57-146	6.76
56-147	7.73	x 5"	25/50	1.10	57-147	6.88
56-148	8.63	x 5-1/2"	20/40	1.10	57-148	7.29
56-149	8.77	x 6"	15/30	1.20	57-149	7.63
56-150	13.19	x 7"	15/30	1.41	57-150	10.61
56-151	14.45	x 8"	15/30	1.62	57-151	11.61
56-152	18.90	x 9"	15/30	1.83	57-152	12.99
56-153	18.02	x 10"	1/20	2.04	57-153	13.73
56-154	23.43	x 11"	1/20	2.25	57-154	22.85
56-155	23.25	x 12"	1/20	2.46	57-155	16.02
56-280	38.69	x 18"	1/3	3.66	57-280	33.21
56-281	62.56	x 24"	1/3	4.92	57-281	46.44
56-282	78.25	x 30"	1/3	6.12	57-282	59.60
		x 36"	1/3	7.38	57-283	72.27
56-285	94.30	x 48"	1/3	9.84	57-285	111.46

BLACK & GALVANIZED SCH 40**STEEL NIPPLES****2" DIAMETER
SCH 40 WELDED**

Wall Thickness 0.154 - Grade
B - Test Pressure 2500 PSI -
Thread Length 1.06



Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-160	6.30	X Close (2")	40/80	0.55	57-160	5.24
56-161	7.27	x 2-1/2"	25/50	0.70	57-161	6.30
56-162	7.54	x 3"	25/50	0.86	57-162	6.60
56-163	8.51	x 3-1/2"	1/30	1.01	57-163	7.76
56-164	9.84	x 4"	1/30	1.16	57-164	7.68
56-165	10.85	x 4-1/2"	1/25	1.31	57-165	8.65
56-166	11.71	x 5"	1/30	1.47	57-166	9.18
56-167	11.21	x 5-1/2"	1/30	1.62	57-167	9.96
56-168	12.34	x 6"	1/20	1.77	57-168	10.34
56-169	21.42	x 7"	1/20	2.08	57-169	14.20
56-170	19.20	x 8"	1/20	2.39	57-170	16.42
56-171	35.08	x 9"	1/10	2.70	57-171	18.14
56-172	22.50	x 10"	1/10	3.00	57-172	20.42
56-173	25.76	x 11"	1/10	3.31	57-173	22.45
56-174	28.83	x 12"	1/10	3.62	57-174	26.83
56-290	43.84	x 18"	1/3	5.39	57-290	44.14
56-291	57.68	x 24"	1/3	5.26	57-291	61.43
56-292	83.84	x 30"	1/3	7.03	57-292	68.79
56-293	92.91	x 36"	1/3	10.86	57-293	78.45
56-294	153.23	x 42"	1/3	12.63	57-294	127.83
56-295	116.59	x 48"	1/3	14.48	57-295	133.04
56-296	157.30	x 60"	1/3	18.10	57-296	154.43
56-297	192.10	x 72"	1/3	18.10	57-297	189.43

**2-1/2" DIAMETER
SCH 40 WELDED**

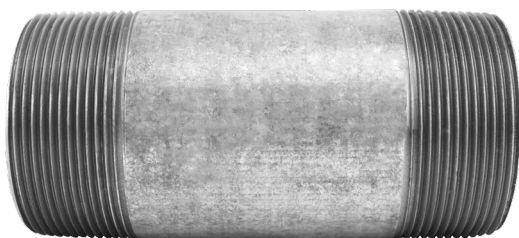
Wall Thickness 0.203 - Grade
B - Test Pressure 2500 PSI -
Thread Length 1.57



Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-180	18.42	X Close (2-1/2")	1/20	1.09	57-180	13.59
56-181	18.96	x 3"	1/20	1.33	57-181	13.85
56-182	26.59	x 3-1/2"	1/20	1.57	57-182	16.30
56-183	20.87	x 4"	1/20	1.82	57-183	16.30
56-184	23.54	x 4-1/2"	1/20	2.06	57-184	20.53
56-185	23.25	x 5"	1/20	2.30	57-185	21.61
56-186	26.00	x 5-1/2"	1/10	2.54	57-186	25.52
56-187	25.54	x 6"	1/10	2.78	57-187	23.67
56-188	32.40	x 7"	1/10	3.27	57-188	39.01
56-189	40.77	x 8"	1/10	3.75	57-189	32.68
56-190	38.93	x 9"	1/10	4.24	57-190	42.21
56-191	40.06	x 10"	1/8	4.72	57-191	33.88
56-192	42.29	x 11"	1/8	5.21	57-192	41.70
56-193	42.45	x 12"	1/8	5.69	57-193	39.55

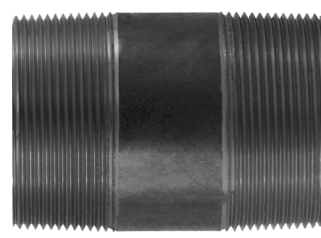
STEEL NIPPLES

BLACK & GALVANIZED SCH 40



3" DIAMETER SCH 40 WELDED

Wall Thickness 0.216 - Grade
B - Test Pressure 2500 PSI -
Thread Length 1.64



Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-200	22.49	X Close (2-5/8")	1/20	1.52	57-200	15.85
56-201	23.76	x 3"	1/20	1.76	57-201	16.05
56-202	38.82	x 3-1/2"	1/10	2.08	57-202	18.00
56-203	26.66	x 4"	1/10	2.39	57-203	18.00
56-204	32.13	x 4-1/2"	1/10	2.71	57-204	35.18
56-205	32.95	x 5"	1/10	3.03	57-205	22.31
56-206	35.85	x 5-1/2"	1/10	3.35	57-206	25.05
56-207	34.70	x 6"	1/10	3.66	57-207	25.05
56-208	42.60	x 7"	1/8	4.30	57-208	42.42
56-209	43.03	x 8"	1/8	4.93	57-209	33.35
56-210	48.33	x 9"	1/8	5.57	57-210	46.62
56-211	51.79	x 10"	1/5	6.20	57-211	37.45
56-212	82.62	x 11"	1/5	7.20	57-212	57.16
56-213	68.90	x 12"	1/5	7.47	57-213	41.60
		x 24"	1	14.94	57-311	172.06

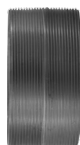


4" DIAMETER SCH 40 WELDED

Wall Thickness 0.237 - Grade
B - Test Pressure 2210 PSI -
Thread Length 1.74

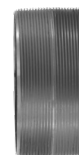


Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-220	32.15	X Close (2-7/8")	1/10	2.40	57-220	20.85
56-221	33.00	3-1/2"	1/8			
56-223	35.36	x 4"	1/8	3.41	57-223	24.10
56-224	44.82	x 4-1/2"	1/6	3.86	57-224	27.55
56-225	44.48	x 5"	1/6	4.31	57-225	28.55
56-226	59.27	x 5-1/2"	1/6	4.76	57-226	43.40
56-227	47.96	x 6"	1/6	5.21	57-227	29.45
56-330	87.19	x 7"	1/5	6.48	57-330	34.00
56-229	84.66	x 8"	1/5	7.01	57-229	34.00
56-331	82.34	x 9"	1/5	7.54	57-331	38.70
56-332	96.59	x 10"	1/5	8.14	57-332	38.70
56-228	96.06	x 12"	1/4	8.54	57-228	115.46



6" DIAMETER SCH 40 WELDED

Wall Thickness 0.28 - Grade
B - Test Pressure 1780 PSI -
Thread Length 1.95



Part # Galv	List Price	6" Dia.	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56-300	198.85	Close (3-1/8")	1/5	4.94	57-300	73.56
		x 6"	1/5	16.45	57-301	102.80

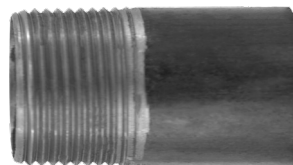
TOE NIPPLES AND ASSORTMENTS

STEEL NIPPLES

BLACK STEEL TOE NIPPLE

Toe nipples are only threaded on one end to allow for easy connections, unthreaded end allows for welding a permanent leak-resistance bond.

- Roller cut • Minimum Quantity may apply
- Reamed and Chamfer or Saw Cut available upon request.

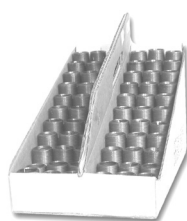


Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
57-021T	1/4" x 1-1/2"	1/1	0.06	5.72
57-022T	1/4" x 2"	1/1	0.06	5.72
57-041T	3/8" x 1-1/2"	1/1	0.07	5.91
57-042T	3/8" x 2"	1/1	0.08	6.25
57-061T	1/2" x 1-1/2"	1/1	0.08	4.66
57-062T	1/2" x 2"	1/1	0.12	4.97
57-081T	3/4" x 1-1/2"	1/1	0.10	5.72
57-082T	3/4" x 2"	1/1	0.15	6.09
57-101T	1" x 2"	1/1	0.23	8.49
57-102T	1" x 2-1/2"	1/1	0.29	8.95
57-121T	1-1/4" x 2"	1/1	0.32	10.58
57-122T	1-1/4" x 2-1/2"	1/1	0.41	11.24
57-141T	1-1/2" x 2"	1/1	0.37	12.53
57-142T	1-1/2" x 2-1/2"	1/1	0.47	13.99
57-160T	2" x 2"	1/1	0.55	57.17
57-161T	2" x 2-1/2"	1/1	0.70	23.02
57-181T*	2-1/2" x 3"	1/1	1.33	50.80
57-201T*	3" x 3"	1/1	1.76	64.01
57-223T*	4" x 4"	1/1	3.41	109.73

* Saw Cut

STEEL NIPPLE ASSORTMENTS

B "6" ASSORTMENTS



Black		LENGTH											Wt. Lbs.	Total Pieces	List Prices
		Close	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"			
973-567	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	166.34
973-568	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	202.33
973-569	1"	6		6	6	6	6	6	6	6	6	6	34	60	281.97

Galv.		LENGTH											Wt. Lbs.	Total Pieces	List Prices
		Close	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"			
973-667	1/2"	6	6	6	6	6	6	6	6	6	6	6	20	66	206.65
973-668	3/4"	6	6	6	6	6	6	6	6	6	6	6	27	66	253.09
973-669	1"	6		6	6	6	6	6	6	6	6	6	34	60	348.18

STEEL TOTE TRAYS



Part #	Size	Capacity	List Price
990-781	1/2"	77pcs	73.13
990-782	3/4"	66pcs	79.46
990-783	1"	50pcs	87.34
990-786	1-1/4"	40pcs	97.99
990-784	1-1/2"	30pcs	94.79
990-785	2"	27pcs	118.48

EXTRA HEAVY SEAMLESS STEEL PIPE NIPPLES

1/8" - 27

**1/8" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.094 - GradeB - Test Pressure 850 PSI - Thread Length 0.39

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-001SMLS	1/8" x Close	40/480	0.02	1.43
59-002SMLS	1/8 x 1-1/2"	40/480		2.27
59-003SMLS	1/8" x 2"	100/400	0.05	1.57
59-005SMLS	1/8" x 3"	40/240	0.08	2.80
59-007SMLS	1/8" x 4"	40/240	0.11	2.90
59-011SMLS	1/8" x 6"	40/80	0.16	5.44

1/4"-18

**1/4" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.119 - Grade B - Test Pressure 850 PSI - Thread Length 0.59

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-020SMLS	x Close (7/8")	40 / 480	0.03	2.45
59-021SMLS	x 1-1/2"	100 / 400	0.06	2.90
59-022SMLS	x 2"	100 / 400	0.08	2.90
59-023SMLS	x 2-1/2"	80 / 320	0.10	3.75
59-024SMLS	x 3"	40 / 240	0.12	3.75
59-025SMLS	x 3-1/2"	40 / 240	0.15	4.10
59-026SMLS	x 4"	40 / 240	0.17	4.10
59-027SMLS	x 4-1/2"	40 / 120	0.19	6.45
59-028SMLS	x 5"	40 / 120	0.21	6.45
59-029SMLS	x 5-1/2"	40 / 80	0.24	7.35
59-030SMLS	x 6"	40 / 80	0.26	7.35
59-031SMLS	x 7"	40 / 80	0.30	12.35
59-032SMLS	x 8"	40 / 80	0.35	12.35
59-033SMLS	x 9"	40 / 80	0.39	13.15
59-034SMLS	x 10"	40 / 80	0.44	13.15
59-036SMLS	x 12"	40 / 80	0.53	14.50



5,000# Carbon Steel Check Valves on page 212

BLACK SCH 80 SEAMLESS**STEEL NIPPLES****3/8"-18****3/8" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.126 - Grade B - Test Pressure 850 PSI - Thread Length 0.6

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-040SMLS	X Close (3/8")	40 / 480	0.05	2.55
59-041SMLS	x 1-1/2"	100 / 400	0.08	3.20
59-042SMLS	x 2"	100 / 400	0.11	3.20
59-043SMLS	x 2-1/2"	80 / 320	0.14	3.80
59-044SMLS	x 3"	40 / 240	0.17	3.80
59-045SMLS	x 3-1/2"	40 / 240	0.20	4.50
59-046SMLS	x 4"	40 / 240	0.23	4.50
59-047SMLS	x 4-1/2"	40 / 160	0.26	6.45
59-048SMLS	x 5"	40 / 120	0.29	6.45
59-049SMLS	x 5-1/2"	40 / 120	0.32	7.35
59-050SMLS	x 6"	40 / 80	0.35	7.35
59-054SMLS	x 10"	40/80	0.53	56.30
59-056SMLS	x 12"	40/80	0.65	62.77

1/2" - 14**1/2" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.147 - Grade B - Test Pressure 850 PSI - Thread Length 0.78

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-060SMLS	X Close (1-1/8")	40 / 480	0.07	2.35
59-061SMLS	x 1-1/2"	100 / 400	0.11	2.35
59-062SMLS	x 2"	100 / 400	0.15	2.35
59-063SMLS	x 2-1/2"	80 / 320	0.20	2.80
59-064SMLS	x 3"	40 / 240	0.24	2.80
59-065SMLS	x 3-1/2"	40 / 240	0.29	3.35
59-066SMLS	x 4"	40 / 240	0.33	3.35
59-067SMLS	x 4-1/2"	40 / 160	0.38	3.85
59-068SMLS	x 5"	40 / 120	0.42	3.80
59-069SMLS	x 5-1/2"	40 / 120	0.47	4.35
59-070SMLS	x 6"	40 / 80	0.51	4.35
59-071SMLS	x 7"	40 / 80	0.60	8.30
59-072SMLS	x 8"	40 / 80	0.69	8.30
59-073SMLS	x 9"	40/80	0.73	26.94
59-074SMLS	x 10"	40 / 80	0.88	9.40
59-075SMLS	x 11"	32/64	0.96	37.89
59-076SMLS	x 12"	32 / 64	1.06	10.80



3/4" - 14

3/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.154 - Grade B - Test Pressure 850 PSI - Thread Length 0.79

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-080SMLS	X Close (1-3/8")	40/240	0.13	2.65
59-081SMLS	x 1-1/2"	100/200	0.15	2.70
59-082SMLS	x 2"	100/200	0.21	2.70
59-083SMLS	x 2-1/2"	40/160	0.27	3.25
59-084SMLS	x 3"	40/160	0.33	3.25
59-085SMLS	x 3-1/2"	40/120	0.39	3.80
59-086SMLS	x 4"	40/120	0.45	3.80
59-087SMLS	x 4-1/2"	40/120	0.51	4.75
59-088SMLS	x 5"	40/120	0.57	4.75
59-089SMLS	x 5-1/2"	48/96	0.64	5.65
59-090SMLS	x 6"	40/80	0.69	5.65
59-091SMLS	x 7"	40/80	0.82	9.75
59-092SMLS	x 8"	40/80	0.94	9.75
59-094SMLS	x 10"	32/64	1.19	11.35
59-096SMLS	x 12"	24/48	1.44	12.85

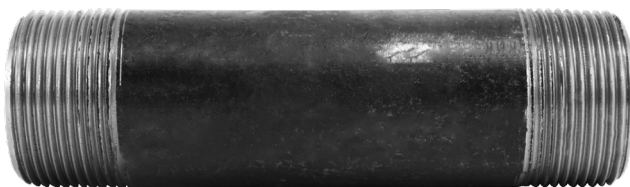


1" - 11 1/2

1" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.179 - Grade B - Test Pressure 850 PSI - Thread Length 0.98

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-100SMLS	X Close (1-1/2")	40 / 160	0.21	3.95
59-101SMLS	x 2"	40 / 120	0.30	4.45
59-102SMLS	x 2-1/2"	40 / 120	0.37	4.60
59-103SMLS	x 3"	40 / 80	0.47	4.60
59-104SMLS	x 3-1/2"	40 / 80	0.56	5.50
59-105SMLS	x 4"	40 / 80	0.65	5.50
59-106SMLS	x 4-1/2"	40 / 80	0.74	6.55
59-107SMLS	x 5"	40 / 80	0.83	6.55
59-108SMLS	x 5-1/2"	40 / 80	0.92	7.75
59-109SMLS	x 6"	32 / 64	1.01	7.75
59-110SMLS	x 7"	20 / 40	1.19	13.10
59-111SMLS	x 8"	20 / 40	1.37	13.10
59-112SMLS	x 9"	20 / 40	1.55	15.70
59-113SMLS	x 10"	12 / 24	1.74	15.70
59-114SMLS	x 11"	12 / 24	1.92	16.95
59-115SMLS	x 12"	12 / 24	2.10	16.95

BLACK SCH 80 SEAMLESS**STEEL NIPPLES****1-1/4" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.191 - Grade B - Test Pressure 1900 PSI - Thread Length 1.01

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-120SMLS	X Close (1-5/8")	40 / 80	0.31	4.85
59-121SMLS	x 2"	40 / 80	0.42	5.25
59-122SMLS	x 2-1/2"	40 / 80	0.52	5.70
59-123SMLS	x 3"	40 / 80	0.64	5.70
59-124SMLS	x 3-1/2"	24 / 48	0.77	7.15
59-125SMLS	x 4"	24 / 48	0.90	7.15
59-126SMLS	x 4-1/2"	24 / 48	1.02	8.80
59-127SMLS	x 5"	20 / 40	1.15	8.80
59-128SMLS	x 5-1/2"	20 / 40	1.27	9.90
59-129SMLS	x 6"	20 / 40	1.40	9.90
59-130SMLS	x 7"	20 / 40	1.65	16.50
59-131SMLS	x 8"	12 / 24	1.90	16.50
59-132SMLS	x 9"	12 / 24	2.15	19.05
59-133SMLS	x 10"	12 / 24	2.40	19.05
59-134SMLS	x 11"	8 / 16	2.65	21.95
59-135SMLS	x 12"	8 / 16	2.90	21.95

**1-1/2" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.2 - Grade B - Test Pressure 1900 PSI - Thread Length 1.03

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-140SMLS	X Close (1-3/4")	40 / 80	0.41	6.10
59-141SMLS	x 2"	32 / 64	0.51	6.60
59-142SMLS	x 2-1/2"	32 / 64	0.64	7.10
59-143SMLS	x 3"	32 / 64	0.78	7.10
59-144SMLS	x 3-1/2"	20 / 40	0.94	8.55
59-145SMLS	x 4"	20 / 40	1.09	8.55
59-146SMLS	x 4-1/2"	20 / 40	1.23	9.95
59-147SMLS	x 5"	20 / 40	1.39	9.95
59-148SMLS	x 5-1/2"	16 / 32	1.54	11.40
59-149SMLS	x 6"	12 / 24	1.69	11.40
59-150SMLS	x 7"	12 / 24	2.00	19.05
59-151SMLS	x 8"	12 / 24	2.30	19.05
59-152SMLS	x 9"	12 / 24	2.61	21.95
59-153SMLS	x 10"	8 / 16	2.90	21.95
59-154SMLS	x 11"	8 / 16	3.20	26.50
59-155SMLS	x 12"	8 / 16	3.51	26.50

**2" DIAMETER SCHEDULE 80 SEAMLESS**

Wall Thickness 0.218 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-160SMLS	X Close (2")	32/64	0.30	8.35
59-161SMLS	x 2-1/2"	20 / 40	0.80	9.40
59-162SMLS	x 3"	20 / 40	1.10	9.40
59-163SMLS	x 3-1/2"	12 / 24	1.31	10.80
59-164SMLS	x 4"	12 / 24	1.52	10.80
59-165SMLS	x 4-1/2"	12 / 24	1.72	13.35
59-166SMLS	x 5"	12 / 24	1.94	13.35
59-167SMLS	x 5-1/2"	12 / 24	2.15	15.40
59-168SMLS	x 6"	8 / 16	2.35	15.40
59-169SMLS	x 7"	8 / 16	2.78	26.50
59-170SMLS	x 8"	8 / 16	3.19	26.50
59-171SMLS	x 9"	1 / 8	3.62	30.85
59-172SMLS	x 10"	1 / 8	4.03	30.85
59-173SMLS	x 11"	1 / 8	4.44	35.55
59-174SMLS	x 12"	1 / 8	4.87	35.55

**2-1/2" DIAMETER SCHEDULE 80 SEAMLESS**

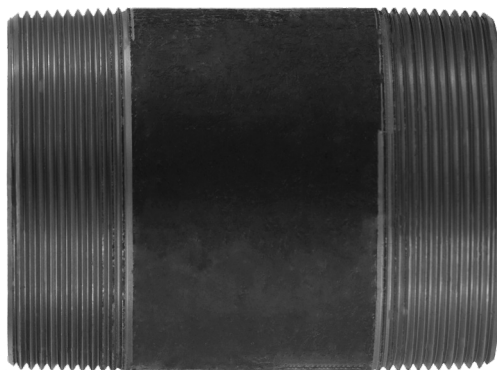
Wall Thickness 0.276 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-180SMLS	x Close (2-1/2")	1 / 16	1.25	25.55
59-181SMLS	x 3"	1 / 16	1.57	26.65
59-182SMLS	x 3-1/2"	1 / 16	1.82	31.00
59-183SMLS	x 4"	1 / 16	2.15	31.00
59-184SMLS	x 4-1/2"	1 / 16	1.75	35.25
59-185SMLS	x 5"	1 / 16	2.78	35.25
59-186SMLS	x 5-1/2"	1 / 8	2.25	38.40
59-187SMLS	x 6"	1 / 8	3.41	38.40
59-188SMLS	x 7"	1 / 8	3.89	46.35
59-189SMLS	x 8"	1 / 8	4.69	46.35
59-190SMLS	x 9"	1 / 8	5.34	52.35
59-191SMLS	x 10"	1 / 6	5.97	52.35
59-192SMLS	x 11"	1 / 6	4.89	57.75
59-193SMLS	x 12"	1 / 5	7.26	57.75

BLACK SCH 80 SEAMLESS**STEEL NIPPLES****3" DIAMETER SCHEDULE 80 SEAMLESS**

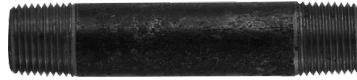
Wall Thickness 0.3 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-200SMLS	X Close (2-5/8")	1 / 16	1.79	31.20
59-201SMLS	x 3"	1 / 16	2.11	34.70
59-202SMLS	x 3-1/2"	1 / 16	2.55	40.20
59-203SMLS	x 4"	1 / 8	2.89	40.20
59-204SMLS	x 4-1/2"	1 / 8	3.30	44.45
59-205SMLS	x 5"	1 / 8	3.73	44.45
59-206SMLS	x 5-1/2"	1 / 8	4.17	48.50
59-207SMLS	x 6"	1 / 8	4.57	48.50
59-208SMLS	x 7"	1 / 6	5.45	66.35
59-209SMLS	x 8"	1 / 6	6.29	66.35
59-210SMLS	x 9"	1 / 6	7.17	73.95
59-211SMLS	x 10"	1 / 4	8.01	73.95
59-212SMLS	x 11"	1 / 4	8.85	80.00
59-213SMLS	x 12"	1 / 4	9.72	80.00

**4" DIAMETER SCHEDULE 80 SEAMLESS**

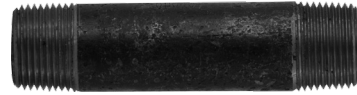
Wall Thickness 0.337 - Grade B - Test Pressure 2800 PSI - Thread Length 1.74

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-220SMLS	X Close (2-7/8")	1 / 8	2.91	47.05
59-221SMLS	x 4"	1 / 6	4.26	53.45
59-223SMLS	x 5"	1 / 5	5.49	60.05
59-225SMLS	x 6"	1 / 5	6.72	65.25
59-226SMLS	x 7"	1/3	7.33	76.54
59-227SMLS	x 8"	1 / 3	9.23	76.80
59-229SMLS	x 10"	1 / 3	11.73	88.45
59-231SMLS	x 12"	1 / 3	14.24	98.15

STEEL NIPPLES**BLACK EXTRA HEAVY XXS SEAMLESS****1/2" DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS**

Wall Thickness 0.294 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-060SMLSXX	x Close	100 / 200	0.31	8.95
59-062SMLSXX	x 2"	100 / 200	0.58	10.60
59-064SMLSXX	x 3"	50 / 100	0.62	12.85
59-066SMLSXX	x 4"	50 / 100	0.66	16.05
59-070SMLSXX	x 6"	25 / 50	0.75	23.90

**3/4" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS**

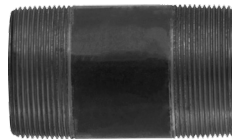
Wall Thickness 0.308 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-080SMLSXX	x Close	40/240	0.55	7.88
59-082SMLSXX	x 2"	50 / 100	0.62	14.60
59-086SMLSXX	x 4"	25 / 50	0.68	22.90
59-090SMLSXX	x 6"	25 / 50	0.71	32.95

**1" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS**

Wall Thickness 0.358 - Grade B - Test Pressure 1000 PSI - Thread Length 0.98

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-100SMLSXX	x close	50 / 100	0.88	18.40
59-101SMLSXX	x 2"	50 / 100	1.07	19.45
59-103SMLSXX	x 3"	20/40	1.10	23.20
59-105SMLSXX	x 4"	20 / 40	1.14	30.25
59-109SMLSXX	x 6"	20 / 40	1.75	43.50
59-111SMLSXX	x 8"	1 / 25	1.88	65.90
59-115SMLSXX	x 12"	1 / 15	2.15	86.70

**2" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS**

Wall Thickness 0.436 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

Part #	Length	Box/Case	Approx. Wt. Lbs.	List Price
59-160SMLSXX	x close	1 / 25	1.36	28.00
59-161SMLSXX	x 2-1/2"	1 / 20	1.67	32.05
59-162SMLSXX	x 3"	1 / 20	2.09	41.30
59-163SMLSXX	x 3-1/2"	1 / 12	2.51	44.50
59-164SMLSXX	x 4"	1 / 12	2.86	49.65
59-166SMLSXX	x 5"	1/12	3.04	70.69
59-168SMLSXX	x 6"	1 / 11	3.20	71.70
59-169SMLSXX	x 7"	1 / 8	4.35	75.65
59-170SMLSXX	x 8"	1 / 8	5.86	80.50
59-171SMLSXX	x 9"	1 / 8	6.58	84.05
59-172SMLSXX	x 10"	1 / 8	7.31	88.00

MERCHANT COUPLINGS**STEEL NIPPLES****Product Specifications**

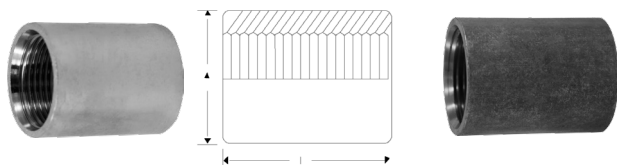
Welded steel couplings both galvanized and black in diameters from 1/8" up to 4".

Technical Specifications

Standards: Product complies with ASTM A865 and ANSI B1.20.1 for threading, dimensions and pipe specifications. Federal Spec WW-P-404

Pipe: Complies with ASTM A-53 milltested schedule 40 and 80. Meets ANSI B36.1. All pipe is hydrostatic tested.

Galvanized: Zinc coating applied by hot dipping. Galvanized complying with ASTM-A-123.

MERCHANT COUPLINGS

- Straight threads thru 2"

Part # Galv	List Price	Size	Part # Black	List Price
64-770	3.51	1/8"	65-770	2.19
64-771	4.53	1/4"	65-771	3.09
64-772	4.14	3/8"	65-772	2.60
64-773	3.62	1/2"	65-773	2.53
64-774	5.14	3/4"	65-774	3.72
64-775	8.25	1"	65-775	5.85
64-776	9.81	1-1/4"	65-776	8.08
64-777	12.52	1-1/2"	65-777	8.66
64-778	20.52	2"	65-778	12.31
64-779	43.72	2-1/2"	65-779	37.50
64-780	87.46	3"	65-780	72.39
64-781	116.65	4"	65-781	92.86
		5"	65-782	208.47
		6"	65-783	208.47

HALF MERCHANT COUPLINGS

- Straight threads thru 2"

Part # Galv	List Price	Size	Part # Black	List Price
		1/4"	65-771H	3.62
		3/8"	65-772H	4.19
64-773H	2.86	1/2"	65-773H	2.80
64-774H	3.88	3/4"	65-774H	3.71
64-775H	7.84	1"	65-775H	5.40
64-776H	6.94	1-1/4"	65-776H	7.00
64-777H	9.88	1-1/2"	65-777H	8.08
64-778H	17.35	2"	65-778H	10.97
		2-1/2"	65-779H	35.56
64-780H	19.00	3"	65-780H	51.22
64-781H	35.00	4"	65-781H	69.41

**Also available:
Extra Heavy Merchant Couplings**

MERCHANT COUPLINGS SPECIFICATIONS

Size	Outside Diam.	Length Inches	Weight 100 pcs approx. Pounds	Quantity per box	Threads per Inch	Threads Type
1/8"	.59"	.78	3.5	1000	27	Straight
1/4"	.73"	1.18	7.5	500	18	Straight
3/8"	.86"	1.18"	9	600	18	Straight
1/2"	1.063"	1-9/16"	13.0	100	14	Straight
3/4"	1.313"	1-5/8"	28.3	50	14	Straight
1"	1.576"	2"	40.1	30	11-1/2	Straight
1-1/4"	1.900"	2-1/16"	49.5	25	11-1/2	Straight
1-1/2"	2.200"	2-1/16"	71.48	25	11-1/2	Straight
2"	2.750"	2-1/8"	112.0	20	11-1/2	Straight
2-1/2"	3.250"	3-1/8"	231.2	8	8	Taper Tapped
3"	4.000"	3-1/4"	353.8	5	8	Taper Tapped
4"	5.000"	3-1/2"	471.8	4	8	Taper Tapped
6"	7.32	4"	1000.05	4	8	Taper Tapped

A105 BLACK STEEL TAPER TAPPED COUPLINGS

Product Specifications

These couplings are manufactured in accordance with American Petroleum Institute specifications 5L & 5B.

All couplings are phosphated.

All sizes are taper tapped 3/4" per foot on the diameter.

*Certified by the American Petroleum Institute



A105

- Black Steel
- API line API SL

- Each end has a short, unthreaded recess before the threads start.
- Use with sch 80 & sch. 160 nipples & pipe.
- Max. pressure: 300PSI

API LINE PIPE COUPLINGS

Part #	NPT Size	Threads per Inch	Outside Diameter	Length	Unit Weight	List Price
65770API	1/8"	27	0.563	1-1/16	0.04	3.19
65771API	1/4"	18	0.719	1-5/8	0.10	3.36
65772API	3/8"	18	0.875	1-5/8	0.13	4.17
65773API	1/2"	14	1.063	2-1/8	0.24	7.37
65774API	3/4"	14	1.313	2-1/8	0.35	7.60
65775API	1"	11.5	1.576	2-5/8	0.52	9.24
65776API	1-1/4"	11.5	2.054	2-3/4	1.00	12.50
65777API	1-1/2"	11.5	2.200	2-3/4	0.88	12.95
65778API	2"	11.5	2.875	2-7/8	1.83	24.53
65779API	2-1/2"	8	3.375	4-1/8	3.28	48.64
65780API	3"	8	4.000	4-1/4	4.09	63.51
65781API	4"	8	5.200	4-1/2	7.59	103.32
65783API	6"		7.390	4-5/8	12.92	196.56

MALLEABLE FITTINGS

MALLEABLE FITTINGS

MALLEABLE FITTINGS



ISO 9002 - CERTIFICATE OF QUALITY - UL/FM LISTED AND APPROVED AT 300 PSI

Our quality fittings are made with care and attention to detail. With better molds we can reduce parting lines and rough edges resulting in better fluid flow. By using a low temperature galvanizing process the coating is more durable which means a longer lasting fitting. All Fittings are 100% Pressure Tested to 300# Class.

(Every fitting is subjected to an underwater fitness test to ensure the highest quality)

SPECIFICATIONS

- MATERIAL: ASTM A 197 - Cuppla Malleable Iron, ASTM A 153 - Hot dipped galvanizing • Coating ASTM A164 LS
- DIMENSIONS: ANSI B 16.3 - Malleable Iron threaded fittings, ANSI B 16.14 - Ferrous Pipe Plugs, Bushings etc..., ANSI B 16.39 - Malleable Iron threaded pipe unions.
- THREADS: ANSI B 2.1 or BS 21 ASME B1.20.1 • RoHS Compliant • Tapered Threads

STEEL FITTINGS



- 1010 Carbon Steel, 3/4 taper threads (see hydraulic section for 7/8 taper threads.)
- Finish or coating • Black Dipped in rust resistant
- Galvanized, Zinc Plated (Inside and Out)

300lb MALLEABLE FITTINGS



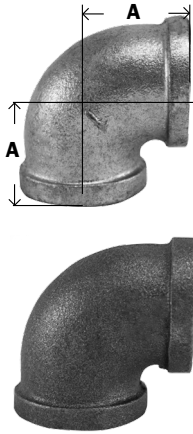
Max. pressure: 300 psi WOG @ 72°F; 150 psi WOG saturated steam

- Meet ANSI/ ASME B1.20.1 standards
- Black meet ASTM 197 standards

MALLEABLE FITTINGS

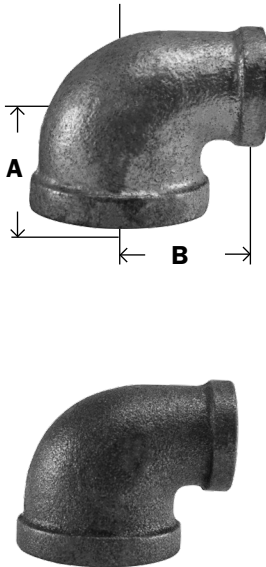
MALLEABLE FITTINGS

ELBOWS 90°



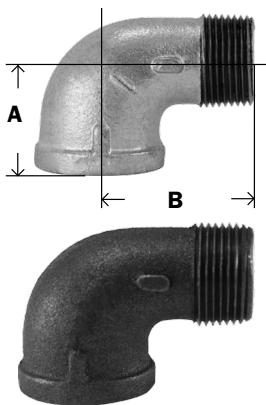
Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-100	3.99	1/8"	0.69	50/600	0.07	65-100	2.68
64-101	3.79	1/4"	0.81	35/420	0.10	65-101	2.44
64-102	3.59	3/8"	0.95	90/360	0.16	65-102	2.44
64-103	2.31	1/2"	1.12	50/200	0.23	65-103	1.94
64-104	3.08	3/4"	1.31	35/105	0.35	65-104	2.65
64-105	5.15	1"	1.50	20/60	0.57	65-105	4.24
64-106	8.68	1-1/4"	1.75	20/40	0.86	65-106	6.38
64-107	11.43	1-1/2"	1.94	15/30	1.31	65-107	8.48
64-108	17.36	2"	2.25	8/16	1.79	65-108	13.56
64-109	47.52	2-1/2"	2.70	6/12	3.35	65-109	31.06
64-110	79.77	3"	3.08	4/8	5	65-110	43.90
64-112	133.68	4"	3.79	1/2	9.02	65-112	98.47
64-114	472.31	6"	5.13	1/1	23.68	65-114	317.41

REDUCING ELBOWS 90°

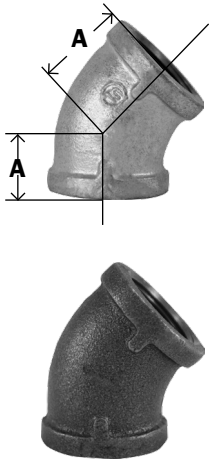


Part # Galvanized	List Price	Size	A	B	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-121	7.16	3/8" x 1/8"	0.81	0.85	105/420	0.11	65-121	7.53
64-122	5.65	3/8" x 1/4"	0.88	0.90	90/360	0.16	65-122	3.88
64-123	4.68	1/2" x 1/4"	0.97	0.98	60/240	0.21	65-123	4.02
64-124	4.40	1/2" x 3/8"	1.04	1.03	60/240	0.24	65-124	3.54
64-126	6.79	3/4" x 3/8"	1.12	1.13	40/160	0.31	65-126	5.05
64-127	5.50	3/4" x 1/2"	1.20	1.22	40/160	0.44	65-127	3.83
64-130	6.48	1" x 1/2"	1.26	1.40	25/100	0.52	65-130	5.18
64-131	6.57	1" x 3/4"	1.37	1.45	50/100	0.58	65-131	4.90
64-133	13.90	1-1/4" x 3/4"	1.45	1.62	15/120	0.79	65-133	9.05
64-134	10.88	1-1/4" x 1"	1.58	1.67	10/40	0.80	65-134	8.47
64-136	15.76	1-1/2" x 3/4"	1.52	1.75	10/40	0.88	65-136	13.07
64-137	16.72	1-1/2" x 1"	1.65	1.80	10/40	1.07	65-137	11.40
64-138	12.82	1-1/2" x 1-1/4"	1.82	1.88	15/30	1.12	65-138	11.42
64-139	25.27	2" x 3/4"	1.60	1.97	9/36	1.20	65-139	19.18
64-140	24.80	2" x 1"	1.73	2.02	14/28	1.41	65-140	20.08
64-141	23.24	2" x 1-1/4"	1.90	2.10	10/20	1.53	65-141	20.08
64-142	20.31	2" x 1-1/2"	2.02	2.16	10/20	1.65	65-142	16.53
64-145	97.16	2-1/2" x 1-1/2"	2.16	2.51	6/12	2.97	65-145	46.25
64-146	70.62	2-1/2" x 2"	2.39	2.60	6/12	3.18	65-146	45.37
64-148	111.53	3" x 1-1/2"	2.28	2.83	6/18	4.54	65-148	96.28
		3" x 2-1/2"	2.83	2.99	4/8	4.39	65-151	78.21
		3" x 2"	2.52	3.60	4/8	4.22	65-150	78.21

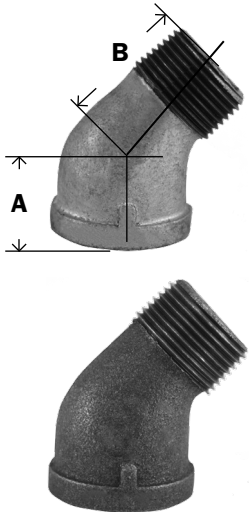
90° STREET ELBOWS



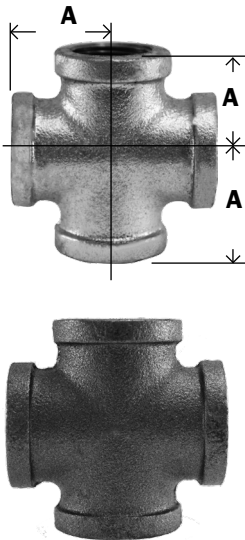
Part # Galvanized	List Price	Size	A	B	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-160	4.89	1/8"	0.69	1.00	60/720	.06	65-160	3.88
64-161	4.97	1/4"	0.80	1.17	35/420	.10	65-161	3.70
64-162	5.15	3/8"	0.95	1.48	40/240	.15	65-162	3.70
64-163	5.05	1/2"	1.10	1.59	60/180	.22	65-163	3.80
64-164	4.87	3/4"	1.28	1.85	35/105	.39	65-164	3.65
64-165	6.64	1"	1.47	2.10	35/105	.60	65-165	5.37
64-166	11.89	1-1/4"	1.75	2.57	25/50	.95	65-166	8.18
64-167	14.63	1-1/2"	1.90	2.63	9/27	1.37	65-167	10.43
64-168	23.12	2"	2.21	3.19	8/16	2.25	65-168	17.69
64-169	68.81	2-1/2"	2.65	3.78	5/10	3.32	65-169	45.09
64-170	103.85	3"	3.02	4.42	4/8	5.27	65-170	66.57
64-171	171.42	4"	3.72	5.57	2/4	8.94	65-171	100.42

BLACK & GALVANIZED MALLEABLE IRON 150#**MALLEABLE FITTINGS****ELBOWS 45°**

Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-180	5.69	1/8"	0.63	50/600	.07	65-180	4.10
64-181	5.07	1/4"	0.73	30/360	.10	65-181	4.15
64-182	5.07	3/8"	0.80	75/300	.14	65-182	3.78
64-183	3.88	1/2"	0.88	50/200	.21	65-183	3.26
64-184	5.41	3/4"	0.98	40/120	.33	65-184	4.02
64-185	6.24	1"	1.12	20/60	.50	65-185	5.13
64-186	11.36	1-1/4"	1.29	20/40	.74	65-186	8.94
64-187	13.58	1-1/2"	1.43	10/30	1.01	65-187	11.08
64-188	20.24	2"	1.68	12/24	1.53	65-188	16.12
64-189	68.56	2-1/2"	1.95	9/18	2.78	65-189	47.08
64-190	99.68	3"	2.17	1/10	4.49	65-190	59.13
64-191	167.08	4"	2.61	2/4	7.44	65-191	118.69
64-192	590.40	6"	3.46	1/1	18.63	65-192	469.63

45° STREET ELBOWS

Part # Galvanized	List Price	Size	A	B	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-200	7.43	1/8"	0.63	0.83	70/840	.05	65-200	6.32
64-201	6.32	1/4"	0.73	0.94	40/480	.09	65-201	4.47
64-202	7.28	3/8"	0.80	1.03	100/400	.14	65-202	5.35
64-203	5.63	1/2"	0.86	1.30	75/225	.19	65-203	4.29
64-204	9.05	3/4"	0.96	1.48	40/120	.28	65-204	6.23
64-205	11.20	1"	1.10	1.69	25/75	.48	65-205	7.69
64-206	16.80	1-1/4"	1.26	1.87	10/40	.71	65-206	12.86
64-207	18.21	1-1/2"	1.40	2.05	10/30	1.02	65-207	16.35
64-208	34.99	2"	1.65	2.38	12/24	1.68	65-208	28.98
64-209	82.32	2-1/2"	1.95	2.72	6/12	2.69	65-209	61.54
64-210	133.13	3"	2.17	3.16	3/6	4.61	65-210	90.70
64-211	276.63	4"	2.61	3.90	2/4	7.74	65-211	168.39

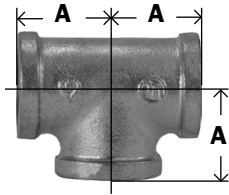
CROSSES

Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-390	21.78	1/8"	0.65	50/600	.14	65-390	16.00
64-391	16.85	1/4"	0.80	60/240	.17	65-391	11.35
64-392	16.85	3/8"	0.95	50/150	.26	65-392	11.35
64-393	16.85	1/2"	1.12	30/90	.42	65-393	11.35
64-394	18.75	3/4"	1.31	20/60	.64	65-394	12.96
64-395	21.18	1"	1.50	15/30	.98	65-395	14.40
64-396	30.66	1-1/4"	1.75	10/20	1.45	65-396	23.38
64-397	37.22	1-1/2"	1.94	8/16	1.90	65-397	28.95
64-398	71.01	2"	2.25	5/10	2.96	65-398	47.94
64-399	177.43	2-1/2"	2.71	4/8	5.49	65-399	107.80
64-400	239.01	3"	3.06	2/4	7.71	65-400	171.80
		4"		1/1	14.77	65-401	364.91

MALLEABLE FITTINGS

BLACK & GALVANIZED MALLEABLE IRON 150#

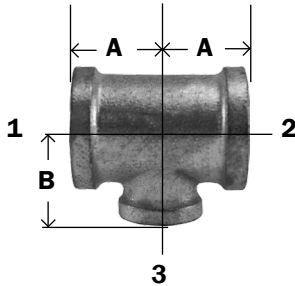
TEES



Part # Galvanized	List Price	Size	A	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
64-250	5.35	1/8"	0.69	120/480	.11	65-250	4.14
64-251	4.67	1/4"	0.81	75/300	.15	65-251	3.69
64-252	4.92	3/8"	0.95	45/180	.22	65-252	3.69
64-253	2.93	1/2"	1.12	40/120	.36	65-253	2.35
64-254	5.12	3/4"	1.31	35/70	.48	65-254	3.49
64-255	7.58	1"	1.50	20/40	.83	65-255	5.99
64-256	13.17	1-1/4"	1.75	14/28	1.29	65-256	9.72
64-257	16.43	1-1/2"	1.94	12/24	1.66	65-257	12.09
64-258	27.42	2"	2.26	8/16	2.50	65-258	20.56
64-259	73.63	2-1/2"	2.70	4/8	4.45	65-259	46.48
64-260	86.38	3"	3.08	1/6	6.72	65-260	63.54
64-261	204.23	4"	3.79	1/2	11.31	65-261	163.86
64-262	629.79	6"	5.13	1/1	30.75	65-262	469.63

REDUCING TEES

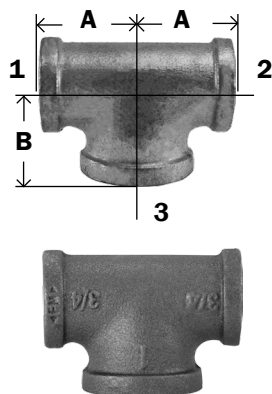
(SAME SIZE ON RUN, REDUCING ON BRANCH)



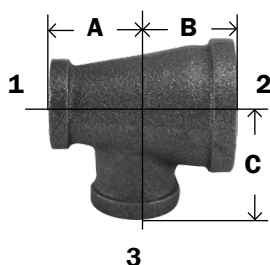
Part # Galvanized	List Price	Size (1&2) x 3	A	B	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-273	7.74	3/8" x 1/4"	0.81	0.90	25/300	.18	65-273	7.41
64-276	5.89	1/2" x 1/4"	0.97	0.98	40/160	.24	65-276	4.46
64-279	6.86	1/2" x 3/8"	1.04	1.03	40/160	.35	65-279	5.58
64-282	7.29	3/4" x 1/4"	1.05	1.08	25/100	.43	65-282	8.04
64-283	7.76	3/4" x 3/8"	1.12	1.13	25/100	.39	65-283	7.14
64-286	8.25	3/4" x 1/2"	1.20	1.18	20/80	.49	65-286	5.38
64-268	13.88	1" x 1/4"	1.11	1.22	20/80	.51	65-268	8.00
64-269	12.12	1" x 3/8"	1.18	1.27	15/60	.55	65-269	10.35
64-291	9.88	1" x 1/2"	1.26	1.40	15/60	.63	65-291	7.33
64-298	9.88	1" x 3/4"	1.37	1.45	12/48	.71	65-298	7.33
64-301	23.12	1-1/4" x 1/2"	1.34	1.45	20/40	.91	65-301	13.29
64-303	15.26	1-1/4" x 3/4"	1.45	1.62	20/40	.99	65-303	11.67
64-306	15.26	1-1/4" x 1"	1.58	1.66	20/40	1.07	65-306	12.65
64-316	18.91	1-1/2" x 3/4"	1.41	1.75	15/30	1.23	65-316	14.72
64-318	20.15	1-1/2" x 1"	1.65	1.88	10/30	1.33	65-318	14.72
64-322	24.26	1-1/2" x 1-1/4"	1.65	1.88	12/24	1.52	65-322	19.04
64-327	27.51	2" x 1/2"	1.49	1.88	10/20	1.64	65-327	23.08
64-328	27.51	2" x 3/4"	1.60	1.97	10/20	1.71	65-328	23.08
64-330	27.51	2" x 1"	1.73	2.02	10/20	1.88	65-330	23.08
64-334	34.57	2" x 1-1/4"	1.86	2.06	8/16	2.03	65-334	24.38
64-336	34.57	2" x 1-1/2"	1.98	2.12	8/16	2.22	65-336	24.38
64-343	93.77	2-1/2" x 1-1/2"	2.16	2.51	5/10	2.97	65-343	60.46
64-729	140.50	3" x 1"	2.00	2.00	3/6	4.15		
64-351	118.86	3" x 2"	2.52	2.89	3/6	5.35	65-351	80.72



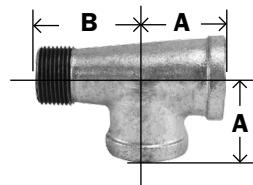
Quick Disconnects - see pages 358-365

BLACK & GALVANIZED MALLEABLE IRON 150#**MALLEABLE FITTINGS****BULLHEAD TEES**

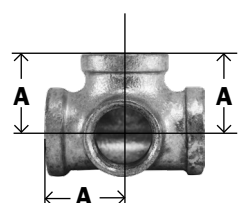
Part #	List Price	Size (1&2) x 3	A	B	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-280	8.05	1/2" x 3/4"	1.22	1.20	30/120	.4	65-280	6.57
64-733	12.13	1/2" x 1"	1.36	1.26	25/100	.50	65-733	15.02
64-289	11.89	3/4" x 1"	1.45	1.37	20/120	.60	65-289	8.33
64-299	18.91	1" x 1-1/4"	1.67	1.58	15/30	.96	65-299	15.49
64-300	32.14	1" x 1-1/2"	1.80	1.65	9/36	1.11	65-300	24.66
64-317	27.25	1-1/4" x 1-1/2"	1.88	1.82	12/24	1.07	65-317	38.46
64-319	50.79	1-1/2" x 2"	2.12	1.98	8/32	2.10	65-319	53.46

**REDUCING TEES
REDUCING ON RUN**

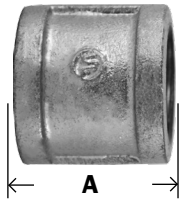
Part # Black	Size 1 x 2 x 3	A	B	C	Box/Case	Approx. Wt. Lbs.	List Price
65-287	3/4" x 1/2" x 1/2"	1.18	1.18	1.20	25/100	0.39	5.96
65-288	3/4" x 1/2" x 3/4"	1.28	1.20	1.28	20/80	0.49	6.57
65-292	1" x 1/2" x 1/2"	1.31	1.22	1.31	20/80	0.51	9.91
65-293	1" x 1/2" x 3/4"	1.22	1.37	1.45	20/80	0.53	8.60
65-294	1" x 1/2" x 1"	1.40	1.50	1.50	15/60	0.54	6.83
65-295	1" x 3/4" x 1/2"	1.20	1.26	1.40	20/80	0.58	8.60
65-296	1" x 3/4" x 3/4"	1.34	1.28	1.42	15/60	0.63	7.72
65-297	1" x 3/4" x 1"	1.45	1.50	1.50	15/60	0.62	10.28
65-347	1-1/4" x 3/4" x 3/4"	1.31	1.45	1.64	10/40	0.66	9.50
65-305	1-1/4" x 3/4" x 1-1/4"	1.62	1.75	1.75	10/40	1.14	9.50
65-309	1-1/4" x 1" x 1"	1.55	1.47	1.63	20/40	1.00	16.93
65-346	1-1/4" x 3/4" x 1/2"	1.31	1.45	1.64	20/40	1.05	17.52
65-349	1-1/4" x 1" x 1/2"	1.26	1.34	1.53	20/40	1.10	14.07
65-310	1-1/4" x 1" x 1-1/4"	1.30	1.36	1.44	15/30	1.21	9.50
65-372	1-1/2" x 1" x 1"	1.50	1.65	1.78	15/30	1.28	18.86
65-375	1-1/2" x 1-1/4" x 3/4"	1.43	1.52	1.25	15/30	1.30	18.86
65-377	1-1/2" x 1-1/4" x 1-1/4"	1.75	1.82	1.88	15/30	1.35	23.48
65-312	2" x 1-1/2" x 1-1/4"	1.82	1.90	2.10	10/30	1.21	29.40
65-313	2" x 1-1/2" x 1-1/2"	1.94	2.02	2.16	10/30	1.79	30.32

MALLEABLE SERVICE TEE (STREET TEE)

Part # Galvanized	List Price	Size	A	B	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-363	9.67	1/2"	1.12	1.62	40/12	0.31	65-363	6.74
64-364	10.62	3/4"	1.31	1.89	25/75	0.49	65-364	8.94

SIDE OUTLET TEES

Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-383	15.07	1/2"	1.12	25/100	.39	65-383	11.64
64-384	19.04	3/4"	1.31	15/60	.58	65-384	14.85
64-385	30.86	1"	1.50	20/40	.88	65-385	23.81
64-386	51.35	1-1/4"	1.75	12/24	1.32	65-386	37.29

MALLEABLE FITTINGS**BLACK & GALVANIZED MALLEABLE IRON 150#****COUPLINGS**

Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-410	4.73	1/8"	0.96	70/840	.07	65-410	3.84
64-411	4.40	1/4"	1.06	40/480	.09	65-411	3.63
64-412	4.40	3/8"	1.16	40/480	.13	65-412	3.94
64-413	3.49	1/2"	1.34	60/240	.19	65-413	3.94
64-414	4.07	3/4"	1.52	50/150	.28	65-414	3.22
64-415	6.70	1"	1.67	25/100	.45	65-415	4.90
64-416	9.21	1-1/4"	1.93	16/64	.66	65-416	6.25
64-417	10.52	1-1/2"	2.15	18/36	.84	65-417	8.39
64-418	15.33	2"	2.54	12/24	1.39	65-418	11.43
64-419	46.86	2-1/2"	2.88	8/16	2.42	65-419	33.16
64-420	62.64	3"	3.18	1/12	3.49	65-420	44.80
64-421	133.03	4"	3.69	3/6	5.81	65-421	89.41
64-422	347.49	6"	4.23	1/2	28.62	65-422	239.93

REDUCING COUPLINGS

Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-430	4.07	1/4" x 1/8"	1.00	50/600	.07	65-430	3.00
64-431	4.13	3/8" x 1/8"	1.13	35/420	.09	65-431	3.26
64-432	4.13	3/8" x 1/4"	1.13	30/360	.11	65-432	3.00
64-433	4.62	1/2" x 1/8"	1.25	75/300	.13	65-433	3.24
64-434	3.76	1/2" x 1/4"	1.25	75/300	.11	65-434	3.00
64-435	3.49	1/2" x 3/8"	1.25	60/240	.15	65-435	2.73
64-439	5.07	3/4" x 1/8"	1.44	60/240	.18	65-439	3.78
64-436	4.68	3/4" x 1/4"	1.44	45/18	.19	65-436	3.70
64-437	4.68	3/4" x 3/8"	1.44	45/18	.21	65-437	3.70
64-438	4.13	3/4" x 1/2"	1.44	60/180	.25	65-438	2.95
64-459	8.26	1" x 1/4"	1.69	45/135	.34	65-459	5.73
64-440	8.45	1" x 3/8"	1.69	30/120	.35	65-440	5.82
64-441	6.46	1" x 1/2"	1.69	30/120	.36	65-441	4.98
64-442	6.32	1" x 3/4"	1.69	25/100	.39	65-442	4.87
64-460	17.23	1-1/4" x 3/8"	2.06	25/75	.55	65-460	13.22
64-444	10.78	1-1/4" x 1/2"	2.06	25/75	.53	65-444	7.20
64-445	8.73	1-1/4" x 3/4"	2.06	25/75	.57	65-445	6.25
64-446	8.73	1-1/4" x 1"	2.06	15/60	.61	65-446	6.86
64-443	20.24	1-1/2" x 3/8"	2.31	20/60	.71	65-443	11.69
64-447	12.71	1-1/2" x 1/2"	2.31	20/60	.69	65-447	9.17
64-448	12.71	1-1/2" x 3/4"	2.31	15/60	.71	65-448	10.34
64-449	11.24	1-1/2" x 1"	2.31	25/50	.78	65-449	9.17
64-450	10.64	1-1/2" x 1-1/4"	2.31	12/48	.87	65-450	7.92
64-458	29.31	2" x 1/2"	2.81	12/36	1.14	65-458	14.91
64-451	18.36	2" x 3/4"	2.81	12/36	1.14	65-451	13.14
64-452	15.33	2" x 1"	2.81	12/36	1.21	65-452	12.40
64-453	16.21	2" x 1-1/4"	2.81	9/27	1.19	65-453	13.14
64-454	15.33	2" x 1-1/2"	2.81	9/27	1.38	65-454	11.47
64-461	48.35	2-1/2" x 1-1/2"	3.25	20/40	2.07	65-461	34.17
64-462	47.44	2-1/2" x 2"	3.25	7/14	2.23	65-462	29.31
64-486	70.03	3" x 1-1/2"	3.69	6/12	3.23	65-486	45.72
64-456	61.28	3" x 2"	3.69	6/12	3.30	65-456	34.53
64-463	63.07	3" x 2-1/2"	3.69	5/10	3.55	65-463	45.72
64-464	136.45	4" x 2"	4.38	3/6	5.55	65-464	91.61
64-465	125.13	4" x 2-1/2"	4.38	3/6	5.90	65-465	91.61
64-457	136.45	4" x 3"	4.38	3/6	6.05	65-457	86.23
		6" x 4"	4.24	1/2	10.86	65-491	347.44

BLACK & GALVANIZED MALLEABLE IRON 150#**MALLEABLE FITTINGS****HEX BUSHING**

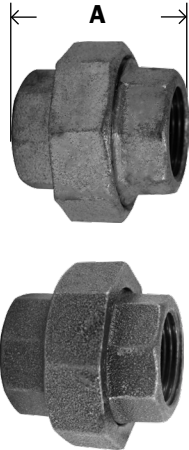
* INSIDE HEX

Part # Galvanized	List Price	Size M x F	A	Hex	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
		*1/4" x 1/8"	} Use steel fittings for smaller sizes (page 283)					
		*3/8" x 1/8"						
		*3/8" x 1/4"						
64-503	5.65	1/2" x 1/8"	0.84	1.03	150/600	.09	65-503	3.73
		1/2" x 1/4"	See Steel Bushings pg 283					
64-505	5.65	1/2" x 3/8"	0.75	1.03	150/600	.07	65-505	3.49
64-506	6.02	3/4" x 1/8"	0.85	1.15	75/300	.14	65-506	3.65
64-507	5.82	3/4" x 1/4"	0.85	1.15	75/300	.13	65-507	3.60
64-508	6.15	3/4" x 3/8"	0.85	1.15	75/300	.12	65-508	3.65
64-509	5.26	3/4" x 1/2"	0.93	1.15	75/300	.10	65-509	3.09
64-510*	6.30	1" x 1/4"	1.13	1.12	50/200	.20	65-510*	4.29
64-511*	9.88	1" x 3/8"	1.13	1.12	50/200	.18	65-511*	4.41
64-512	5.69	1" x 1/2"	1.10	1.42	50/200	.21	65-512	3.02
64-513	5.07	1" x 3/4"	1.10	1.42	50/200	.17	65-513	3.02
64-514*	8.56	1-1/4" x 1/4"	1.24	1.12	30/120	.29	65-514*	5.53
64-515*	8.56	1-1/4" x 3/8"	1.24	1.12	30/120	.29	65-515*	4.92
64-516*	7.99	1-1/4" x 1/2"	1.24	1.24	30/120	.31	65-516*	4.75
64-517	7.29	1-1/4" x 3/4"	1.08	1.76	30/120	.35	65-517	4.24
64-518	7.29	1-1/4" x 1"	1.08	1.76	30/120	.29	65-518	4.24
64-519*	18.52	1-1/2" x 1/4"	1.30	1.12	25/75	.40	65-519*	6.56
64-520*	18.52	1-1/2" x 3/8"	1.30	1.12	25/75	.38	65-520*	6.56
64-521*	10.62	1-1/2" x 1/2"	1.30	1.34	25/75	.38	65-521*	5.21
64-522*	10.62	1-1/2" x 3/4"	1.30	1.44	25/75	.40	65-522*	5.21
64-523	9.53	1-1/2" x 1"	1.23	2.00	25/75	.45	65-523	4.98
64-524	8.80	1-1/2" x 1-1/4"	1.23	2.00	25/75	.34	65-524	4.98
64-526	8.35	2" x 1/4"	1.29	1.12	20/60	.57	65-526	15.69
64-525*	75.13	2" x 3/8"	1.28	1.12	20/60	.57	65-525*	8.16
64-527*	13.21	2" x 1/2"	1.39	1.34	20/60	.57	65-527*	8.16
64-528*	12.31	2" x 3/4"	1.39	1.63	20/60	.63	65-528*	6.90
64-529*	11.64	2" x 1"	1.39	1.77	20/60	.66	65-529*	6.90
64-530	11.64	2" x 1-1/4"	1.50	2.48	20/60	.74	65-530	6.90
64-531	9.89	2" x 1-1/2"	1.50	2.48	20/60	.61	65-531	6.90
64-546*	29.00	2-1/2" x 1/2"	1.51	1.34	15/30	.97	65-546*	11.69
64-547*	19.16	2-1/2" x 3/4"	1.51	1.63	15/30	.91	65-547*	12.47
64-532*	27.41	2-1/2" x 1"	1.51	1.95	15/30	.97	65-532*	11.69
64-533*	18.72	2-1/2" x 1-1/4"	1.51	2.39	15/30	1.03	65-533*	11.69
64-534	18.76	2-1/2" x 1-1/2"	1.51	2.98	15/30	1.16	65-534	11.69
64-535	16.71	2-1/2" x 2"	1.54	2.98	15/30	1.01	65-535	11.69
64-550	29.65	3" x 1"	1.61	1.95	12/24	1.41	65-550	15.57
64-549*	29.65	3" x 1-1/4"	1.61	2.39	12/24	1.42	65-549*	17.00
64-537*	22.49	3" x 1-1/2"	1.61	2.68	12/24	1.51	65-537*	17.00
64-538	23.77	3" x 2"	1.61	3.86	12/24	1.71	65-538	17.00
64-539	45.23	3" x 2-1/2"	1.61	3.86	12/24	1.68	65-539	15.97
		3-1/2" x 3"	1.86	4.20	5/10		65-555	29.03
64-551	97.29	4" x 3/4"	2.15	4.90	5/10	3.88	65-551	40.53
64-553*	56.53	4" x 1"	2.00	4.75	5/10	3.79	65-553*	34.99
64-552	36.84	4" x 1-1/4"	1.82	2.39	5/10	2.39	65-552	32.59
64-540	62.87	4" x 1-1/2"	1.82	2.68	5/10	2.39	65-540	34.03
64-541*	46.70	4" x 2"	1.82	3.31	5/10	2.52	65-541*	33.34
64-542*	46.70	4" x 2-1/2"	2.06	3.87	5/10	2.87	65-542*	29.16
64-543	46.70	4" x 3"	2.17	4.96	5/10	2.95	65-543	31.82
		5" x 4"	2.16	5.34	2/4	6.80	65-544	80.00
64-545*	101.71	6" x 4"	2.33	5.79	2/4	7.11	65-545*	89.08

MALLEABLE FITTINGS

BLACK & GALVANIZED MALLEABLE IRON 150#

UNIONS

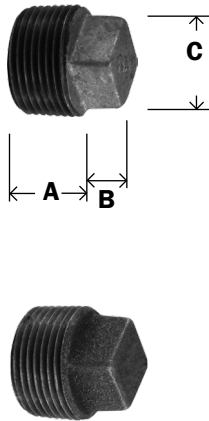


• Brass Seat

Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-600	17.55	1/8"	1.26	60/240	.17	65-600	14.60
64-601	17.00	1/4"	1.44	20/240	.25	65-601	13.44
64-602	11.33	3/8"	1.61	40/160	.37	65-602	10.85
64-603	10.78	1/2"	1.72	50/100	.52	65-603	8.16
64-604	11.83	3/4"	1.94	35/70	.78	65-604	10.62
64-605	14.77	1"	2.06	20/40	1.18	65-605	12.73
64-606	22.90	1-1/4"	2.26	15/30	1.64	65-606	17.00
64-607	28.27	1-1/2"	2.41	10/20	2.08	65-607	22.27
64-608	36.64	2"	2.75	6/12	3.24	65-608	31.50
64-609	110.79	2-1/2"	3.22	4/8	5.31	65-609	80.96
64-610	155.07	3"	3.50	4/8	6.94	65-610	93.84
64-611	335.90	4"	3.85	2/4	12.02	65-611	246.54

SQUARE HEAD PLUGS

• Cored



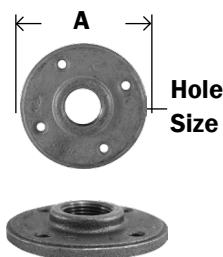
Part # Galvanized	List Price	Size	A	B	C	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
		*1/8"	} Use steel fittings for smaller sizes						
		*1/4"							
		*3/8"							
64-653	2.53	1/2"	0.58	0.38	0.56	50/600	.08	65-653	1.51
64-654	3.93	3/4"	0.65	0.44	0.63	30/360	.13	65-654	1.68
64-655	3.60	1"	0.75	0.50	0.82	20/240	.22	65-655	2.35
64-656	6.03	1-1/4"	0.82	0.56	0.94	40/120	.33	65-656	3.60
64-657	8.18	1-1/2"	0.85	0.62	1.13	30/90	.41	65-657	4.35
64-658	10.12	2"	0.91	0.68	1.31	20/60	.68	65-658	5.57
64-659	19.97	2-1/2"	1.26	0.74	1.50	16/64	.89	65-659	13.14
64-660	27.48	3"	1.16	0.80	1.69	16/32	1.68	65-660	18.64
64-661	35.43	4"	1.22	1.00	2.28	6/12	3.02	65-661	38.84
		6"	1.85	1.13	5.97	5/10	11.41	65-662	72.02

CAPS



Part # Galvanized	List Price	Size	A	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
		1/4"	0.62	80/960	.07	65-471	1.56
64-472	3.55	3/8"	0.74	60/720	.08	65-472	1.93
64-473	2.72	1/2"	0.87	75/300	.13	65-473	2.00
64-474	3.90	3/4"	0.97	40/160	.18	65-474	2.64
64-475	4.32	1"	1.16	25/100	.30	65-475	2.92
64-476	6.27	1-1/4"	1.28	20/80	.47	65-476	3.97
64-477	7.99	1-1/2"	1.33	18/54	.66	65-477	5.64
64-478	10.10	2"	1.45	12/36	.99	65-478	6.69
64-479	32.13	2-1/2"	1.70	20/40	1.58	65-479	17.31
64-480	38.92	3"	1.80	12/24	2.51	65-480	27.35
64-481	77.28	4"	2.08	6/12	4.09	65-481	42.70
64-482	281.30	6"	2.55	2/4	5.18	65-482	171.81

* Use steel fittings for smaller sizes. See page 282 for Galvanized and Black Steel Fittings.

BLACK & GALVANIZED MALLEABLE IRON 150#**MALLEABLE FITTINGS****FLOOR FLANGES**

Part # Galvanized	List Price	Size	A	Thickness	Hole Size	Box/ Case	Approx. Wt. Lbs.	Part # Black	List Price
64-692	16.57	1/2"	3.50	0.50	0.25	25/100	.63	65-692	7.64
64-693	18.49	3/4"	3.50	0.63	0.25	15/45	.73	65-693	7.92
64-694	20.35	1"	4.00	0.69	0.25	15/45	1.02	65-694	11.42
64-695	23.18	1-1/4"	4.00	0.75	0.25	15/30	1.00	65-695	12.73
64-696	28.92	1-1/2"	4.50	0.87	0.31	8/24	1.37	65-696	13.98
64-697	38.09	2"	5.50	1.00	0.31	8/16	2.11	65-697	18.05

EXTENSION FIP X MIP

Part #	Size	Approx. WT. Lbs.	Box/Case	List Price
65-621	1/2"	0.12	75 / 300	8.59
65-622	3/4"	0.23	40 / 160	12.54
65-623	1"	0.32	30 / 90	17.51

MUSHROOM VENT CAP

Cast Iron Galvanized Threaded Cap. 30 Mesh screen. Protects against driving rain, snow, sleet and insects.



Part #	Size	Approx. WT. Lbs.	Box/Case	List Price
21-178	2"	1.36	1/48	15.33

Other sizes available with extended delivery



See page 328 for Barbed for Plastic Pipe Fittings



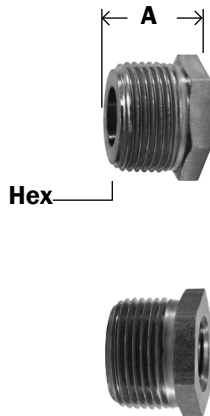
See page 376 for Gauges

STEEL FITTINGS

BLACK & GALVANIZED STEEL FITTINGS

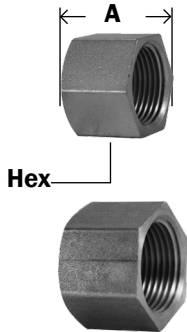
ROHS, WEE, REACH COMPLIANT - MADE IN THE USA

HEX BUSHINGS



Part # Galvanized	List Price	Size M x F	A	Hex	Approx. Wt. Lbs.	Part # Black	List Price
66-500	1.44	1/4" x 1/8"	0.63	0.62	0.02	67-500	1.66
66-501	1.84	3/8" x 1/8"	0.66	0.68	0.04	67-501	2.15
66-502	1.71	3/8" x 1/4"	0.66	0.68	0.02	67-502	2.11
66-503	2.60	1/2" x 1/8"	0.80	0.87	0.10	67-503	2.34
66-504	2.59	1/2" x 1/4"	0.80	0.87	0.08	67-504	2.34
66-505	2.50	1/2" x 3/8"	0.80	0.87	0.06	67-505	2.36
66-506	3.82	3/4" x 1/8"	0.94	1.06	0.18	67-506	3.57
66-507	4.52	3/4" x 1/4"	0.94	1.06	0.14	67-507	3.75
66-508	4.54	3/4" x 3/8"	0.94	1.06	0.14	67-508	3.69
66-509	4.28	3/4" x 1/2"	0.94	1.06	0.10	67-509	3.79
66-510	7.18	1" x 1/4"	1.00	1.31	0.16	67-510	6.47
66-511	7.18	1" x 3/8"	1.00	1.31	0.26	67-511	6.28
66-512	9.23	1" x 1/2"	1.00	1.31	0.22	67-512	6.28
66-513	8.17	1" x 3/4"	1.00	1.31	0.14	67-513	6.88
		1-1/4" x 1/8"				67-514	9.66

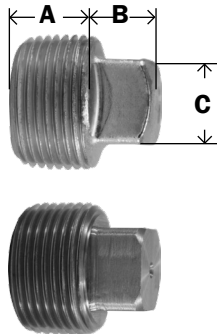
CAPS



Part # Galvanized	List Price	Size NPTF	A	Hex	Approx. Wt. Lbs.	Part # Black	List Price
66-470	1.24	1/8"	0.53	0.56	0.02	67-470	1.20
66-471	1.55	1/4"	0.63	0.62	0.04	67-471	1.37
66-472	2.23	3/8"	0.69	0.81	0.06	67-472	2.10
66-473	4.77	1/2"	0.87	1.00	0.12	67-473	3.24
66-474	5.87	3/4"	0.97	1.18	0.16	67-474	4.78
66-475	7.96	1"	1.16	1.50	0.30	67-475	6.84
66-476	38.38	1-1/4"	1.28	2.00	0.68	67-476	31.88
66-477	48.27	1-1/2"	1.35	2.25	0.83	67-477	47.34
66-478	101.38	2"	1.45	2.625	1.36		

SQUARE HEAD PLUGS

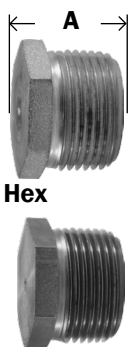
• Solid



Part # Galvanized	List Price	Size NPTF	A	B	C	Approx. Wt. Lbs.	Part # Black	List Price
		1/16"	0.33	0.18	0.22	0.01	67-669	0.50
66-670	0.56	1/8"	0.33	0.24	0.28	0.01	67-670	0.55
66-671	0.62	1/4"	0.45	0.28	0.37	0.02	67-671	0.52
66-672	0.98	3/8"	0.50	0.31	0.43	0.04	67-672	0.83
66-653	1.76	1/2"	0.59	0.38	0.55	0.12	67-653	1.43
66-654	2.36	3/4"	0.63	0.44	0.62	0.18	67-654	1.97
66-655	8.22	1"	0.75	0.5	0.81	0.34	67-655	7.08
66-656	14.57	1-1/4"	0.80	0.56	0.93	0.62	67-656	12.95
66-657	23.19	1-1/2"	0.83	0.62	1.12	0.82	67-657	19.61
66-658	29.61	2"	0.88	0.68	1.31	1.36	67-658	25.72

HEX HEAD PLUGS

• Solid



Part # Galvanized	List Price	Size NPTF	A	Hex	Approx. Wt. Lbs.	Part # Black	List Price
66-770	0.52	1/8"	0.55	0.43	0.01	67-770	0.39
66-771	0.88	1/4"	0.74	0.56	0.04	67-771	0.72
66-772	1.48	3/8"	0.67	0.68	0.06	67-772	1.35
66-773	2.51	1/2"	0.80	0.70	0.12	67-773	2.23
66-774	4.67	3/4"	0.94	1.06	0.18	67-774	3.47
66-775	8.40	1"	1.00	1.31	0.22	67-775	6.28
66-776	12.02	1-1/4"	1.17	1.75	0.7	67-776	10.80
66-777	39.60	1-1/2"	1.51	2.00	1.2	67-777	21.83
66-778	60.98	2"	1.65	2.50	2.06	67-778	40.18

BLACK & GALVANIZED STEEL

STEEL FITTINGS

COUNTERSUNK PLUG - Square Socket



Part # Galv	List Price	Size NPTF	A	Socket Size	Approx. Wt. Lbs.	Part # Black	List Price
66-630	0.39	1/8"	0.29	0.19	0.01	67-630	0.36
66-631	0.53	1/4"	0.45	0.25	0.02	67-631	0.53
66-632	0.78	3/8"	0.45	0.31	0.04	67-632	0.66
66-633	1.14	1/2"	0.59	0.38	0.08	67-633	0.99
66-634	1.93	3/4"	0.60	0.50	0.12	67-634	1.56
66-635	4.51	1"	0.75	0.50	0.16	67-635	3.88
66-636	7.62	1-1/4"	0.80	0.75	0.32	67-636	7.07
66-637	16.83	1-1/2"	0.83	0.75	0.45	67-637	13.88
66-638	36.64	2"	0.88	0.875	2.06	67-638	26.54

COUNTERSUNK PLUG - Hex Socket



Part # Galv	List Price	Size NPTF	A	Socket Size	Approx. Wt. Lbs.	Part # Black	List Price
66-760	0.60	1/16"	0.29	0.15	0.01	67-760	0.50
66-761	0.42	1/8"	0.29	0.18	0.01	67-761	0.53
66-762	0.57	1/4"	0.44	0.25	0.02	67-762	0.50
66-763	0.72	3/8"	0.44	0.31	0.04	67-763	0.66
66-764	1.07	1/2"	0.59	0.37	0.08	67-764	1.08
66-765	1.97	3/4"	0.60	0.56	0.14	67-765	1.54
66-766	5.25	1"	0.75	0.625	0.22	67-766	3.25
66-767	7.42	1-1/4"	0.80	0.75	0.37	67-767	5.81
66-768	15.41	1-1/2"	0.83	1.0	0.45	67-768	14.58
66-769	27.97	2"	0.88	1.0	0.86	67-769	23.75

• Flush plugs available upon request

FACE BUSHING



Part # Galv	List Price	Size M x F	A	Approx. Wt. Lbs.	Part # Black	List Price
66-700	1.31	1/4" x 1/8"	0.44	0.01	67-700	1.35
66-701	1.61	3/8" x 1/8"	0.48	0.02	67-701	1.44
66-702	2.43	3/8" x 1/4"	0.48	0.02	67-702	1.44
		1/2" x 1/8"	0.56	0.04	67-703	2.17
66-704	2.34	1/2" x 1/4"	0.56	0.04	67-704	2.21
66-705	2.43	1/2" x 3/8"	0.56	0.04	67-705	2.31
		3/4" x 1/4"	0.62	0.12	67-707	2.86
66-708	3.51	3/4" x 3/8"	0.62	0.10	67-708	2.86
66-709	3.72	3/4" x 1/2"	0.62	0.10	67-709	2.94
		1" x 3/8"	0.75	0.18	67-711	5.27
66-712	5.99	1" x 1/2"	0.75	0.16	67-712	5.27
66-713	8.12	1" x 3/4"	0.75	0.16	67-713	5.43



See Hydraulic Pipe Fittings pg 420

MALLEABLE FITTINGS**BLACK EXTRA HEAVY 300# MALLEABLE IRON****90° ELBOW**

Part #	Size	List Price
69-101	1/4"	26.34
69-102	3/8"	16.78
69-103	1/2"	9.30
69-104	3/4"	10.67
69-105	1"	15.83
69-106	1-1/4"	24.48
69-107	1-1/2"	32.91
69-108	2"	79.42

45° ELBOW

Part #	Size	List Price
69-181	1/4"	59.75
69-182	3/8"	56.02
69-183	1/2"	31.30
69-184	3/4"	48.42
69-185	1"	41.14
69-186	1-1/4"	61.69
69-187	1-1/2"	79.69
69-188	2"	121.49

90° STREET ELBOW

Part #	Size	List Price
69-161	1/4"	31.14
69-162	3/8"	28.00
69-163	1/2"	15.34
69-164	3/4"	21.63
69-165	1"	23.52
69-166	1-1/4"	26.91
69-167	1-1/2"	37.61
69-168	2"	128.75

TEE

Part #	Size	List Price
69-252	3/8"	35.04
69-253	1/2"	16.17
69-254	3/4"	17.42
69-255	1"	22.52
69-256	1-1/4"	35.55
69-257	1-1/2"	47.40
69-258	2"	73.65

COUPLING

Part #	Size	List Price
69-411	1/4"	15.79
69-412	3/8"	19.77
69-413	1/2"	9.57
69-414	3/4"	11.89
69-415	1"	14.49
69-416	1-1/4"	28.93
69-417	1-1/2"	44.53
69-418	2"	144.40

Coming Soon - Pipe Hangers and Accessories

BLACK & GALVANIZED MALLEABLE IRON 300#

MALLEABLE FITTINGS

REDUCING COUPLING



Part #	Size	List Price
69-432	3/8 x 1/4"	25.74
69-434	1/2 x 1/4"	30.76
69-435	1/2 x 3/8"	31.42
69-438	3/4 x 1/2"	25.66
69-441	1 x 1/2"	36.60
69-442	1 x 3/4"	40.27

CAP



Part #	Size	List Price
69-471	1/4"	17.45
69-472	3/8"	20.50
69-473	1/2"	19.81
69-474	3/4"	21.85
69-475	1"	28.69
69-476	1-1/4"	36.13
69-477	1-1/2"	52.81
69-478	2"	69.65

UNION

- Brass Seat



Part #	Size	List Price
69-600	1/8"	50.56
69-601	1/4"	56.97
69-602	3/8"	60.79
69-603	1/2"	50.56
69-604	3/4"	52.01
69-605	1"	54.29
69-606	1-1/4"	85.20
69-607	1-1/2"	115.96
69-608	2"	102.59

STEEL MAGNETIC PLUGS

Steel Magnetic Drain Plugs - NPT Threaded

Magnetic Drain Plugs are similar to standard pipe or straight thread drain plugs with one important difference - a permanent magnet is fastened to the plug body. This magnet attracts and holds abrasive, ferrous metal particles preventing their circulation through the lubrication or hydraulic system.

These abrasive, ferrous metal particles appear in lubricating or hydraulic systems as a result of the following conditions:

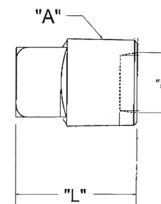
- The constant flaking effect of normal wear of moving parts.
- Particles not removed by flushing operations after boring or machining.
- Chipping due to sub-surface casting flaws.
- Minute component breakdown caused by stress usage.

Magnetic Drain Plugs prevent excessive wear to the system's components.

Magnetic Plugs are used by numerous manufacturers of gear boxes, transmissions, engines, and hydraulic systems for the automotive, aircraft, agricultural and machinery industries.

Typical applications include:

- Outboard Engines
- Earthmoving Equipment
- Combines
- Balers
- Crawler Tractors
- Lift Trucks
- Mining Equipment
- Military Vehicles
- Turbine Engines
- Truck Axles
- Heavy-Duty Transmissions



Part	Size "A"	Head Width "C"	Recess Dia. "H"	O/L Length "L"	List Price
28-996	3/8 - 18	.428 - .440	.435 - .445	.805 - .860	3.37
28-997	1/2 - 14	.553 - .565	.560 - .570	.970 - 1.04	4.03
28-998	3/4 - 14	.615 - .627	.725 - .735	1.120 - 1.170	5.10
28-999	1-11 1/2	.803 - .815	.895 - .905	1.25 - 1.33	7.39

HIGH PRESSURE FORGED STEEL FITTINGS



We believe in quality first. Our products are manufactured with a quality management system that has been certified with ISO 9001:2008. We will continue to do our best to exceed our customers expectations by providing top quality products.

These heavy duty fittings are classified 2000# and 3000# because they have extra-strong forged construction that stands up to high-pressure applications.

2000#, 3000# High-Pressure Forged Steel Threaded Pipe Fittings

- Use with air, water, oil, natural gas, steam
- Maximum Pressure: 3,000 psi @ 72°F, except plugs are rated 6,000 psi @ 72°F
- Pipe Nipples and Pipe: Use threaded Schedule 160 extra-thick-wall black steel
- Flanges: Use threaded extreme-pressure steel
- The thick walls on these Class 2000 and 3000 forged steel fittings stand up to high pressures
- Meet ASTM A105 and ANSI/ASME B1.20.1; also meet ANSI/ ASME B16.11 (revision of ASME B16.11-2009)

BULL PLUGS AND SWAGES



FLANGES



2000#**FORGED STEEL FITTINGS****2000 LB FORGED STEEL THREADED FITTINGS - ASTM: A105 ANSI: B16.11****90° ELBOW**

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
100-100	1/8"	200	0.22	11.79
100-101	1/4"	150	0.18	8.35
100-102	3/8"	100	0.29	9.68
100-103	1/2"	80	0.55	8.45
100-104	3/4"	50	0.77	9.22
100-105	1"	30	1.17	11.90
100-106	1-1/4"	20	1.81	27.29
100-107	1-1/2"	15	2.34	29.00
100-108	2"	8	3.75	39.76
100-109	2-1/2"	4	7.89	104.65
100-110	3"	2	10.60	161.61
100-111	4"	1	22.51	529.83

2000# 45° ELBOW

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
100-181	1/4"	150	0.18	18.10
100-182	3/8"	100	0.22	14.84
100-183	1/2"	80	0.44	12.89
100-184	3/4"	50	0.60	14.44
100-179	1"	30	0.90	16.89
100-186	1-1/4"	20	1.50	28.06
100-187	1-1/2"	15	1.81	32.09
100-188	2"	10	3.11	50.06
100-189	2-1/2"	5	5.73	133.80
100-190	3"	2	9.33	216.04
100-191	4"	1	19.75	543.33

2000# TEE

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
100-251	1/4"	100	0.26	10.66
100-252	3/8"	80	0.37	11.90
100-253	1/2"	50	0.68	10.25
100-254	3/4"	35	0.95	13.91
100-255	1"	20	1.52	19.26
100-256	1-1/4"	15	2.36	34.15
100-257	1-1/2"	10	3.06	41.31
100-258	2"	6	4.76	51.66
100-259	2-1/2"	3	9.06	144.04
100-260	3"	2	13.49	225.62
100-261	4"	1	32.50	559.55

2000# CROSS

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
100-392	3/8"	40	0.46	35.78
100-393	1/2"	40	0.86	33.70
100-394	3/4"	30	1.19	39.35
100-395	1"	20	1.83	44.02
100-396	1-1/4"	10	2.78	84.42
100-397	1-1/2"	6	3.86	103.56
100-398	2"	4	5.84	135.06

FORGED STEEL 3000# FITTINGS

90° ELBOW

- Threaded



Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-100	1/8"	150	0.22	13.14
101-101	1/4"	100	0.31	15.98
101-102	3/8"	80	0.64	15.98
101-103	1/2"	50	0.95	9.17
101-104	3/4"	25	1.52	11.49
101-105	1"	20	2.51	17.10
101-106	1-1/4"	15	3.13	35.10
101-107	1-1/2"	6	5.80	41.87
101-108	2"	5	6.44	50.83
101-109	2-1/2"	2	13.21	165.54
101-110	3"	2	19.58	196.41
101-111	4"	1	32.74	637.74

3000# STREET ELBOW



Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-161	1/4"	150	0.24	20.52
101-162	3/8"	80	0.49	18.07
101-163	1/2"	50	0.68	17.26
101-164	3/4"	30	1.17	21.79
101-165	1"	20	2.25	29.05
101-166	1-1/4"	15	2.49	82.76
101-167	1-1/2"	8	4.43	100.03
101-168	2"	5	6.42	91.78

3000# 45° ELBOW



Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-180	1/8"	200	0.17	15.89
101-181	1/4"	100	0.26	15.89
101-182	3/8"	80	0.53	16.69
101-183	1/2"	50	0.75	14.96
101-184	3/4"	30	1.23	27.16
101-185	1"	20	2.07	36.98
101-186	1-1/4"	15	2.27	32.50
101-187	1-1/2"	8	4.52	56.66
101-188	2"	6	4.92	65.35
101-189	2-1/2"	2	8.18	165.54
101-190	3"	2	13.16	244.68

3000# TEE



Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-250	1/8"	100	0.29	15.97
101-251	1/4"	80	0.44	13.15
101-252	3/8"	50	0.84	13.15
101-253	1/2"	35	1.23	13.08
101-254	3/4"	20	2.03	18.94
101-255	1"	15	3.28	23.23
101-256	1-1/4"	10	3.88	45.12
101-257	1-1/2"	5	7.21	52.64
101-258	2"	4	7.78	68.03
101-259	2-1/2"	2	15.41	226.80
101-260	3"	1	22.47	343.87
101-261	4"	1	42.17	572.99

3000# THREADED**FORGED STEEL FITTINGS****3000 LB FORGED STEEL THREADED FITTINGS - ASTM A105/ASME SA105 & ANSI B16.11****CROSS**

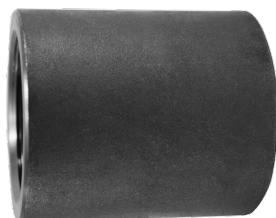
Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-390	1/8"	100	0.37	65.67
101-391	1/4"	40	0.57	62.95
101-392	3/8"	40	0.97	62.95
101-393	1/2"	30	1.59	36.93
101-394	3/4"	20	2.34	48.72
101-395	1"	12	3.95	78.55
101-396	1-1/4"	6	4.70	90.85
101-397	1-1/2"	4	8.66	121.03
101-398	2"	4	9.41	163.15
101-399	2-1/2"	1	18.76	456.15
101-400	3"	1	27.45	603.99
101-401	4"	1	48.35	858.59

3000# HALF COUPLINGS

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-770	1/8"		0.04	2.66
101-771	1/4"	800	0.04	2.80
101-772	3/8"	500	0.07	2.53
101-773	1/2"	250	0.13	2.32
101-774	3/4"	150	0.22	3.95
101-775	1"	80	0.51	4.59
101-776	1-1/4"	35	0.75	14.29
101-777	1-1/2"	30	1.19	13.96
101-778	2"	20	1.54	14.83
101-779	2-1/2"	12	2.49	33.45
101-780	3"	6	3.70	68.39
101-781	4"	4	6.86	119.48

3000# CAP

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-470	1/8"	400	0.04	4.64
101-471	1/4"	300	0.09	4.48
101-472	3/8"	250	0.11	4.94
101-473	1/2"	130	0.24	4.38
101-474	3/4"	80	0.40	7.64
101-475	1"	50	0.82	14.35
101-476	1-1/4"	30	1.37	25.88
101-477	1-1/2"	25	1.59	27.61
101-478	2"	15	2.40	35.74
101-479	2-1/2"	10	4.89	78.47
101-480	3"	4	7.72	144.60
101-481	4"	3	10.67	182.48

3000# COUPLING

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-410	1/8"	300	0.11	4.64
101-411	1/4"	250	0.09	4.64
101-412	3/8"	200	0.13	4.64
101-413	1/2"	100	0.29	3.81
101-414	3/4"	70	0.42	5.00
101-415	1"	35	0.99	8.65
101-416	1-1/4"	20	1.79	14.44
101-417	1-1/2"	15	2.38	18.70
101-418	2"	10	3.09	23.33
101-419	2-1/2"	5	5.05	57.68
101-420	3"	3	7.45	98.78
101-421	4"	2	13.85	204.51

FORGED STEEL FITTINGS**3000#****REDUCING COUPLING**

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-431	1/4" x 1/8"	250	0.09	8.03
101-432	3/8" x 1/8"	200	0.13	8.38
101-433	3/8" x 1/4"	200	0.13	8.38
101-434	1/2" x 1/4"	100	0.29	8.38
101-435	1/2" x 3/8"	100	0.29	8.38
101-437	3/4" x 3/8"	70	0.42	13.89
101-438	3/4" x 1/2"	70	0.42	8.85
101-440	1" x 3/8"	35	0.99	18.09
101-441	1" x 1/2"	35	0.99	18.09
101-442	1" x 3/4"	35	0.99	20.26
101-443	1-1/4" x 3/8"	20	1.79	31.67
101-444	1-1/4" x 1/2"	20	1.79	31.73
101-445	1-1/4" x 3/4"	20	1.79	31.67
101-446	1-1/4" x 1"	20	1.79	35.47
101-449	1-1/2" x 1"	15	2.36	34.40
101-450	1-1/2" x 1-1/4"	15	2.36	34.40
101-458	2" x 1/2"	10	3.09	142.09
101-451	2" x 3/4"	10	3.09	55.87
101-452	2" x 1"	10	3.09	55.87
101-453	2" x 1-1/4"	10	3.09	55.87
101-454	2" x 1-1/2"	10	3.09	55.87
101-461	3" x 1-1/2"	3	7.45	187.91
101-462	3" x 2"	3	7.45	187.91

3000# UNION

Part #	Size	Box/Case	Approx. Wt. Lbs.	List Price
101-600	1/8"	100	0.62	20.66
101-601	1/4"	70	0.62	18.80
101-602	3/8"	70	0.53	19.11
101-603	1/2"	50	0.75	16.23
101-604	3/4"	30	1.06	19.88
101-605	1"	20	1.70	25.96
101-606	1-1/4"	14	2.27	44.32
101-607	1-1/2"	10	3.59	49.13
101-608	2"	6	5.36	66.59
101-609	2-1/2"	2	8.00	182.00
101-610	3"	2	11.62	194.31
101-611	4"	1	26.46	396.54

SQUARE HEAD FORGED PLUG

- Solid
- Max pressure determined by the fittings threaded into.
- 6,000 PSI use with sch 160 pipe.
- ASME



Part #	Size	Approx. Wt. Lbs.	List Price
107-670	1/8"	0.02	2.23
107-671	1/4"	0.02	2.01
107-672	3/8"	0.07	2.11
107-673	1/2"	0.11	2.22
107-674	3/4"	0.20	2.78
107-675	1"	0.35	4.23
107-676	1-1/4"	0.60	8.76
107-677	1-1/2"	0.85	9.99
107-678	2"	1.39	15.81
107-679	2-1/2"	2.12	44.70
107-680	3"	3.37	74.82

BUSHINGS AND PLUGS**FORGED STEEL FITTINGS**

- Water, oil and steam in the chemical, petrochemical, pulp, paper, shipbuilding, waste incineration and semiconductor industries.
- Max pressure determined by the fittings threaded into.
- 6,000 PSI use with sch 160 pipe.
- ASME

6000# FORGED BUSHING

Part #	M x F	Approx. Wt. Lbs.	List Price
107-500	1/4" x 1/8"	0.08	2.78
107-501	3/8" x 1/8"	0.11	2.78
107-502	3/8" x 1/4"	0.10	2.78
107-503	1/2" x 1/8"	0.13	2.84
107-504	1/2" x 1/4"	0.13	2.84
107-505	1/2" x 3/8"	0.15	2.84
107-508	3/4" x 3/8"	0.27	3.45
107-509	3/4" x 1/2"	0.24	3.45
107-510	1" x 1/4"	0.40	5.62
107-511	1" x 3/8"	0.41	5.62
107-512	1" x 1/2"	0.39	5.62
107-513	1" x 3/4"	0.37	5.62
107-515	1-1/4" x 3/8"	0.52	9.17
107-516	1-1/4" x 1/2"	0.63	9.17
107-517	1-1/4" x 3/4"	0.55	9.17
107-518	1-1/4" x 1"	0.57	9.17
107-519	1-1/2" x 1/4"	1.01	10.00
107-521	1-1/2" x 1/2"	0.94	10.61
107-522	1-1/2" x 3/4"	0.82	10.61
107-523	1-1/2" x 1"	0.66	10.61
107-524	1-1/2" x 1-1/4"	0.74	10.61
107-526	2" x 1/4"	1.83	15.92
107-527	2" x 1/2"	1.74	15.92
107-528	2" x 3/4"	1.61	15.92
107-529	2" x 1"	1.43	15.92
107-530	2" x 1-1/4"	1.12	15.92
107-531	2" x 1-1/2"	1.23	15.92
107-532	2-1/2" x 1"	3.33	54.82
107-533	2-1/2" x 1-1/4"	2.91	54.82
107-534	2-1/2" x 1-1/2"	2.53	54.82
107-535	2-1/2" x 2"	2.24	54.82
107-550	3" x 1"	4.65	84.79
107-537	3" x 1-1/2"	3.92	84.79
107-538	3" x 2"	3.09	84.79
107-539	3" x 2-1/2"	3.04	84.79

6000# HEX HEAD FORGED PLUG

Part #	Size	Approx. Wt. Lbs.	List Price
107-630	1/8"	0.02	1.87
107-631	1/4"	0.07	1.70
107-632	3/8"	0.11	1.75
107-633	1/2"	0.15	1.75
107-634	3/4"	0.31	3.30
107-635	1"	0.48	4.64
107-636	1-1/4"	0.97	7.83
107-637	1-1/2"	1.30	11.18
107-638	2"	2.27	17.31
107-639	2-1/2"	3.97	39.04
107-640	3"	5.73	71.33
107-641	4"	11.46	117.42

STANDARD BULL PLUG

- Sch 40 150#
- Zinc plated



Part #	Description	List Price
91-008	2"	39.00
91-007	2" w/ 1/2" TAP	54.15
91-009	2-1/2"	84.60
91-010	3"	104.40
91-011	4"	170.95

XH BULL PLUG

- Made from sch. 80 pipe.
- Zinc plated
- Hollow



Part #	Description	List Price
90-001	1/4"	7.05
90-002	3/8"	11.31
90-003	1/2"	11.60
90-004	3/4"	12.45
90-005	1"	19.65
90-006	1-1/4"	18.20
90-007	1-1/2"	22.05
90-008	2"	39.60
90-213	2" w/ 1/4" TAP	45.10
90-212	2" w/ 1/2" TAP	45.10
93-212*	2"XXH w/1/2" TAP	60.25
90-009	2-1/2"	75.50
90-010	3"	109.30
90-215	3" w/ 1/2" TAP	214.70
90-011	4"	180.02

* XXH

STANDARD SCH. 40 SWAGE
MIP X MIP

- Zinc plated



Part #	Description	List Price
93-113	1-1/4" x 1"	24.66
93-121	2" x 1"	37.45
93-122	2" x 1-1/4"	32.75
93-123	2" x 1-1/2"	31.25
93-124	2-1/2" x 2"	50.75
93-125	3" x 1"	91.70
93-127	3" x 1-1/2"	80.66
93-128	3" x 2"	74.95
93-129	3" x 2-1/2"	76.45
93-130	4" x 2"	112.25
93-131	4" x 3"	108.15
93-139	6" x 3"	442.20

See Stainless Steel Flareless Fittings on page 437

SWAGES**SWAGES AND BULL PLUGS****SCH 80 XH SWAGES
MIP X MIP**

Part #	Description	List Price
90-100	1/4" x 1/8"	10.65
90-102	1/2" x 1/4"	13.40
90-103	1/2" x 3/8"	12.55
90-104	3/8" x 1/4"	11.80
90-105	3/4" x 1/4"	15.00
90-106	3/4" x 3/8"	13.86
90-107	3/4" x 1/2"	17.25
90-108	1" x 1/4"	20.20
90-109	1" x 3/8"	19.60
90-110	1" x 1/2"	22.20
90-111	1" x 3/4"	20.95
90-140	1-1/4" x 3/4"	25.65
90-141	1-1/4" x 1"	29.44
90-114	1-1/2" x 1/2"	33.40
90-115	1-1/2" x 3/4"	31.90
90-116	1-1/2" x 1"	39.85
90-117	1-1/2" x 1-1/4"	35.15
90-118	2" x 1/4"	74.40
90-119	2" x 1/2"	60.70
90-120	2" x 3/4"	64.95
90-121	2" x 1"	40.95
90-122	2" x 1-1/4"	37.30
90-123	2" x 1-1/2"	37.95
90-124	2-1/2" x 2"	76.25
90-125	3" x 1"	114.35
90-126	3" x 1-1/4"	69.49
90-127	3" x 1-1/2"	114.40
90-128	3" x 2"	83.75
90-129	3" x 2-1/2"	80.05
90-133	4" x 1"	186.30
90-130	4" x 2"	128.35
90-131	4" x 3"	128.35
90-132	6" x 4"	519.00
90-150	6" x 2"	563.95
90-152	6" x 3"	554.80

XXH SWAGE

Part #	Description	List Price
92-102	1/2" x 1/4"	15.83
92-107	3/4" x 1/2"	24.11
92-108	1" x 1/4"	25.88
92-109	1" x 3/8"	25.88
92-110	1" x 1/2"	24.80
92-111	1" x 3/4"	20.95
92-114	1-1/2" x 1/2"	28.13
92-115	1-1/2" x 3/4"	28.13
92-116	1-1/2" x 1"	35.44
92-119	2" x 1/2"	42.09
92-120	2" x 3/4"	42.09
92-121	2" x 1"	69.40
92-122	2" x 1-1/4"	83.60
92-123	2" x 1-1/2"	51.28
92-128	3" x 2"	134.90

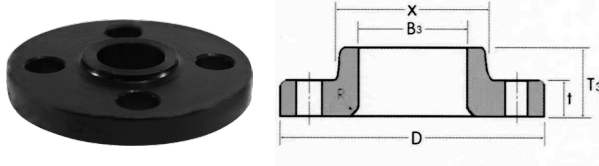
ASTMA105
ASME SA105
ANSI B16.5

Forged Steel Flanges

• A105 Forged Steel • 300 LBS GASKETS

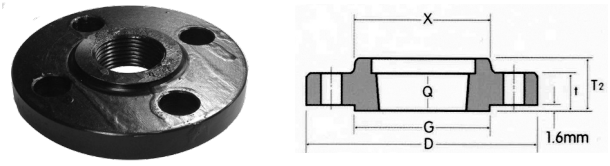
• CLASS 150

(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



SLIP-ON 1/16" RAISED FACE FORGED STEEL FLANGE

Part #	Size	List Price
107-020	1/2"	21.13
107-021	3/4"	21.09
107-022	1"	21.20
107-023	1-1/4"	18.15
107-024	1-1/2"	18.13
107-025	2"	16.10
107-026	2-1/2"	28.38
107-027	3"	31.08
107-029	4"	36.45
107-031	6"	49.99
107-032	8"	90.25
107-033	10"	147.80
107-034	12"	199.08



THREADED 1/16" RAISED FACE FORGED STEEL FLANGE

Part #	Size	List Price
107-060	1/2"	8.50
107-061	3/4"	13.60
107-062	1"	23.00
107-063	1-1/4"	25.00
107-064	1-1/2"	25.50
107-065	2"	28.75
107-066	2-1/2"	42.59
107-067	3"	42.85
107-069	4"	49.80
107-071	6"	75.00
107-072	8"	105.55
107-073	10"	155.00
107-074	12"	227.45

Nominal Pipe Size	Depth of Socket in.	DRILLING				BOLTING			APPROXIMATE WEIGHT		
		Bolt Circle Diameter	Number of Holes	Diameter of Holes	Diameter of Bolts (inch)	Machine Bolt Length	Stud Bolt Length		Welding Neck	Slip-on and Threaded	Blind
							Raised Face	Ring Joint			
	Y						Raised Face		LBS	LBS	LBS
1/2	.382	2.382	4	.618	1/2	2.00	2.252	-	1.146	1.036	1.036
3/4	.441	2.752	4	.618	1/2	2.00	2.50	-	2.028	1.653	1.389
1	.500	3.118	4	.618	1/2	2.252	2.50	3.00	2.425	1.893	2.094
1-1/4	.559	3.50	4	.618	1/2	2.252	2.752	3.252	3.086	3.086	3.086
1-1/2	.618	3.882	4	.618	1/2	2.50	2.752	3.252	3.99	3.109	3.571
2	.689	4.752	4	.752	5/8	2.752	3.252	3.752	6.173	4.982	5.82
2-1/2	.752	5.5	4	.752	5/8	3.00	3.50	4.00	9.436	7.562	8.951
3	.811	6.0	4	.752	5/8	3.00	3.50	4.00	11.42	8.818	11.023
4	.941	7.50	8	.752	5/8	3.00	3.50	4.00	16.138	12.677	16.535
6	1.059	9.50	8	.882	3/4	3.252	4.00	4.50	24.824	17.196	26.455
8	1.252	11.752	8	.882	3/4	3.50	4.252	4.752	39.683	28.66	44.092
10	1.311	14.252	12	1.00	7/8	4.00	4.50	5.00	55.116	37.699	66.139
12	1.559	17	12	1.00	7/8	4.00	4.752	5.252	85.936	61.024	97.003

FORGED STEEL FLANGES**CLASS 150**

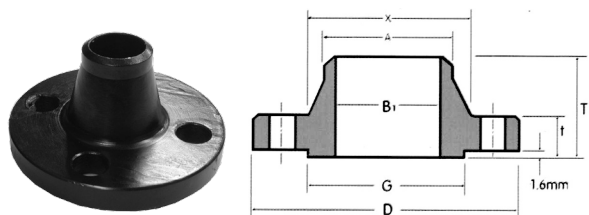
ASTMA105
ASME SA105
ANSI B16.5

Forged Steel Flanges

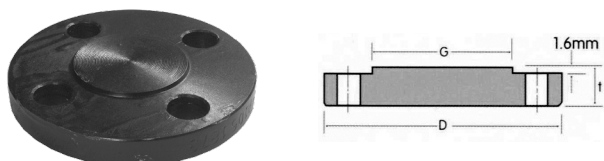
• A105 Forged Steel

• CLASS 150

(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)

**WELD NECK FORGED STEEL FLANGE**

Part #	Size	List Price
107-000	1/2"	32.25
107-001	3/4"	32.14
107-002	1"	32.19
107-003	1-1/4"	30.11
107-004	1-1/2"	30.11
107-005	2"	34.48
107-006	2-1/2"	37.49
107-007	3"	40.92
107-009	4"	49.67
107-011	6"	75.03
107-012	8"	132.55
107-013	10"	212.29
107-014	12"	308.50

**BLIND 1/16" RAISED FACE
FORGED STEEL FLANGE**

Part #	Size	List Price
107-040	1/2"	7.80
107-041	3/4"	8.00
107-042	1"	28.53
107-043	1-1/4"	24.71
107-044	1-1/2"	24.71
107-045	2"	27.58
107-046	2-1/2"	41.96
107-047	3"	35.16
107-049	4"	49.28
107-051	6"	75.03
107-052	8"	123.11
107-053	10"	237.10
107-054	12"	357.10

Nominal Pipe Size	Outside Diameter	O.D of Raised Face	Diameter at Base of Hub	Thickness	BORE		LENGTH THRU HUB	
					Welding Neck Socket Welding	Welding Neck	Slip-on Threaded Socket Welding	
	D	G	X	T	B1	T1	T2	
1/2	3.504	1.382	1.189	.441	.618	1.882	.618	
3/4	3.898	1.689	1.50	.50	.819	2.059	.618	
1	4.252	2.00	1.941	.559	1.051	2.189	.689	
1-1/4	4.606	2.50	2.311	.618	1.382	2.252	.811	
1-1/2	5.00	2.882	2.559	.689	1.610	2.441	.882	
2	5.984	3.618	3.059	.752	2.071	2.50	1.00	
2-1/2	7.008	4.118	3.559	.882	2.469	2.752	1.118	
3	7.52	5.00	4.252	.941	3.071	2.752	1.189	
4	9.016	6.189	5.311	.941	4.031	3.00	1.311	
6	10.984	8.50	7.559	1.00	6.071	3.50	1.559	
8	13.504	10.618	9.689	1.118	7.980	4.00	1.752	
10	15.984	12.752	12.00	1.189	10.02	4.00	1.941	
12	19.016	15.00	14.382	1.252	12.00	4.50	2.189	

COPPER FITTINGS



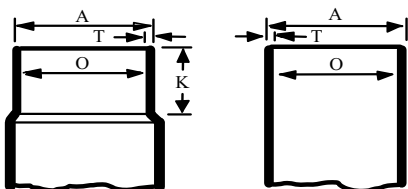
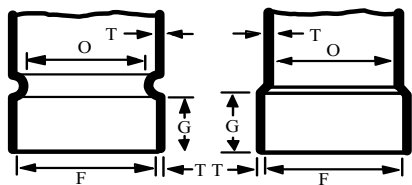
SYMBOL OF JOINT ENDS

- C** Solder joint fitting end made to receive copper tube diameter
Ftg. Solder joint fitting end made to copper tube diameter
F Internal ANSI Standard Taper Pipe Thread-Female
M External ANSI Standard Taper Pipe Thread-Male
 Threaded ends ANSI/ ASME B1. Solder ends ASTM B88

- Temp range 32° to 200°F
- Pressure @100° - 1/8-1 : 500 PSI
 - 1-1/4-2 : 400 PSI
 - 2-1/2 - 3: 300 PSI

NSF - 61 CERTIFIED
ALLOY C12200

THE ABOVE CONFORMS TO ASTM B 88 & ASTM B 306, A 306

												
MALE (FITTING)						FEMALE (COPPER)						
Nominal Size	Joint Ends										Metal Thickness T (in)	Inside Diameter O (in)
	Male End					Female End						
	Outside Diameter (A) in	Average Tolerance (mm)	Actual MIN in	O.D. MAX in	Length (Min) H (in)	Inside Diameter F (in)	Average Tolerance (mm)	Actual MIN in	O.D. MAX in	Length (Min) G (in)		
1/8	2/8	0.03	2/8	2/8	3/8	2/8	0.03	2/8	2/8	3/8	0	2/8
1/4	3/8		3/8	3/8	3/8	3/8		3/8	3/8	3/8	0	2/8
3/8	4/8		4/8	4/8	3/8	4/8		4/8	4/8	3/8	0	3/8
1/2	5/8		5/8	5/8	4/8	5/8		5/8	5/8	3/8	0	4/8
5/8	6/8		6/8	6/8	5/8	6/8		6/8	6/8	5/8	0	4/8
3/4	7/8		7/8	7/8	6/8	7/8		7/8	7/8	5/8	0	5/8
1	1-1/8	0.04	1-1/8	1-1/8	7/8	1-1/8	0.04	1-1/8	1-1/8	7/8	0	7/8
1-1/4	1-3/8		1-3/8	1-3/8	1	1-3/8		1-3/8	1-3/8	1	0	1-1/8
1-1/2	1-5/8	0.05	1-5/8	1-5/8	1-1/8	1-5/8	0.05	1-5/8	1-5/8	1-1/8	0	1-3/8
2	2-1/8		2-1/8	2-1/8	1-3/8	2-1/8		2-1/8	2-1/8	1-2/8	0	1-6/8
2-1/2	2-5/8		2-5/8	2-5/8	1-4/8	2-5/8		2-5/8	2-5/8	1-4/8	1/8	2-1/8
3	3-1/8		3-1/8	2-1/8	1-6/8	3-1/8		3-1/8	3-1/8	1-5/8	1/8	2-5/8
4	4-1/8		4-1/8	4-1/8	2-1/8	4-1/8		4-1/8	4-1/8	2-1/8	1/8	3-4/8

1/8"

1/4"

3/8"

1/2"

5/8"

3/4"

1"



1-1/4"

1-1/2"

2"



WROT SOLDER JOINT**COPPER FITTINGS****90° ELL C X C**

Part#	Nominal (ID)	OD	Approx Net Wt.	Ind #	List Price
77-100	1/8"	1/4"	0.01	W 02003	4.60
77-101	1/4"	3/8"	0.01	W 02009	5.24
77-102	3/8"	1/2"	0.03	W 02017	3.70
77-104	1/2"	5/8"	0.04	W 02022	1.32
77-107	5/8"	3/4"	0.07	W 02028	9.35
77-108	3/4"	7/8"	0.09	W 02034	2.94
77-110	1"	1-1/8"	0.17	W 02047	7.23
77-113	1-1/4"	1-3/8"	0.27	W 02077	10.72
77-114	1-1/2"	1-5/8"	0.41	W 02085	16.72
77-116	2"	2-1/8"	0.73	W 02086	29.71
77-118	2-1/2"	2-5/8"	1.16	W 02087	78.70
77-119	3"	3-1/8"	1.87	W 02088	105.18
77-120	4"	4-1/8"	3.79	W 02090	269.24
77-103	3/8" x 1/4"		0.03	W 02019	8.62
77-105	1/2"x3/8"		-	W 02023	13.91
77-109	3/4" x 1/2"		0.12	W 02036	9.66
77-112	1"x1/2"		0.23	W 02051	18.30
77-111	1"x3/4"		0.23	W 02049	17.71
77-117	2"x1 -1/2"		0.73	W 02078	60.32

WE-500-R 607-R 107-C

**90° STREET ELL
FTG. X C**

77-124	1/4"		0.01	W 02312	9.18
77-125	3/8"		0.03	W 02321	6.04
77-126	1/2"		0.05	W 01652	1.92
77-127	5/8"		0.07	W 02330	9.94
77-128	3/4"		0.12	W 01654	4.26
77-129	1"		0.22	W 02344	10.90
77-130	1-1/4"		0.33	W 02384	15.94
77-131	1-1/2"		0.45	W 02385	20.89
77-132	2"		0.87	W 02386	45.49
77-134	3"		1.93	W 02388	153.26

**90° LONG TURN ELL
C X C**

77-139	1/8"		0.01	W 02715	6.81
77-140	1/4"		0.02	W 02716	5.31
77-141	5/16"		0.03		8.73
77-142	3/8"		0.04	W 02717	6.70
77-143	1/2"		0.06	W 02722	6.06
77-144	5/8"		0.10	W 02728	5.99
77-145	3/4"		0.15	W 02734	7.66
77-146	1"		0.32		12.32
77-147	1-1/4"		0.53		23.86
77-148	1-1/2"		0.61		26.16
77-149	2"		1.19		84.29

WE-500-L 607-LT 107-L

**90° LONG TURN ST. ELL
FTG. X C**

77-152	1/8"		0.01		10.47
77-153	1/4"		0.22	W 02809	8.32
77-154	3/8"		0.04	W 02817	16.28
77-155	1/2"		0.06	W 02822	8.60
77-156	5/8"		0.11		10.53
77-157	3/4"		0.15		10.64
77-158	1"		0.33		18.11
77-159	1-1/4"		0.46	W 02828	10.53
77-160	1-1/2"		0.64	W 02834	10.64

WE-503-L 607-2LT

COPPER FITTINGS

WROT SOLDER JOINT

45° ELL C X C



Part#	Nominal	Approx Net Wt.	Ind #	List Price
77-161	1/8"	0.01	W 03005	12.51
77-162	1/4"	0.01	W 03012	7.05
77-163	3/8"	0.02	W 03021	6.04
77-164	1/2"	0.04	W 03026	2.40
77-165	5/8"	0.06	W 03030	13.38
77-166	3/4"	0.10	W 03034	4.10
77-167	1"	0.19	W 03044	10.29
77-168	1-1/4"	0.27	W 03050	13.71
77-169	1-1/2"	0.39	W 03055	16.51
77-170	2"	0.75	W 03059	28.27
77-171	2-1/2"	1.23	W 03063	77.75

WE-504 606 106

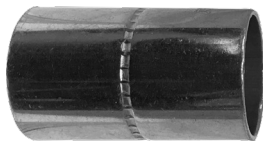
STREET 45° FTG. X C



77-177	1/4"	0.01	W 03312	13.91
77-178	3/8"	0.02	W 03321	10.09
77-179	1/2"	0.06	W 03326	2.75
77-180	5/8"	0.06	W 03330	23.01
77-181	3/4"	0.10	W 03334	5.38
77-182	1"	0.18	W 03344	13.38
77-183	1-1/4"	0.27	W 03350	20.66
77-184	1-1/2"	0.38	W 03355	25.26
77-185	2"	0.75	W 03359	40.16

WE-505 606-2

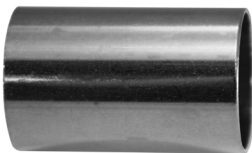
COUPLING (SOCKET) W/ ROLLED UP TUBE STOP C X C



77-201	1/8"	0.01	W 01003	1.11
77-202	1/4"	0.01	W 01009	0.93
77-203	3/8"	0.02	W 01017	1.21
77-204	1/2"	0.03	W 01022	0.98
77-205	5/8"	0.04	W 01028	2.60
77-206	3/4"	0.06	W 01034	1.98
77-207	1"	0.10	W 01047	3.95
77-208	1-1/4"	0.15	W 01055	6.76
77-209	1-1/2"	0.22	W 01063	9.18
77-210	2"	0.39	W 01072	14.94
77-211	2-1/2"	0.71	W 01082	31.44
77-212	3"	0.98	W 01092	42.82
77-214	4"	2.01	W 10107	146.69

WC-400 100

COUPLING (SOCKET) LESS TUBE STOP C X C



77-219	1/8"	0.01	W 01900	4.03
77-220	1/4"	0.01	W 01901	1.25
77-222	1/2"	0.03	W 01903	1.30
77-223	3/4"	0.06	W 01905	2.71
77-224	1"	0.10	W 01906	5.71
77-225	1-1/4"	0.15	W 01907	8.36
77-226	1-1/2"	0.22	W 01908	11.23
77-227	2"	0.39	W 01909	18.99

WC-400NS 601

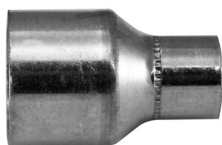


See page 171 for SWT x SWT LF Ball Valves

WROT SOLDER JOINT**COPPER FITTINGS****COUPLING (SOCKET)
W/ DIMPLED TUBE
STOP C X C**

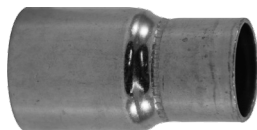
Part#	Nominal	Approx Net Wt.	Ind #	List Price
77-238	1/2"	0.03		1.73
77-240	3/4"	0.06		2.20
77-241	1"	0.10		5.46
77-242	1-1/4"	0.15		13.52
77-244	2"	0.39		21.20
77-247	4"	2.01		115.63

WC-400S

**REDUCER COUPLING
W/ STOP C X C**

77-252	1/4" x 1/8"	0.01	W 01011	6.00
77-254	3/8" x 1/8"			3.58
77-253	3/8" x 1/4"	0.02	W 01019	2.70
77-256	1/2" x 1/4"	0.03	W 01023	2.51
77-255	1/2" x 3/8"	0.03	W 01021	2.02
77-258	5/8" x 1/2"	0.04	W 01025	4.86
77-264	3/4" x 1/4"			3.86
77-263	3/4" x 3/8"	0.06	W 01036	5.67
77-262	3/4" x 1/2"	0.06	W 01029	3.39
77-267	1"x1/2"	0.10	W 01049	9.82
77-265	1"x3/4"	0.12	W 01038	6.28
77-270	1 -1/4" x 1/2"	0.14	W 01058	9.15
77-269	1 -1/4" x 3/4"	0.17	W 01056	8.81
77-268	1-1/4" x 1"	0.17	W 01051	8.86
77-274	1-1/2" x 1/2"	0.19	W 01067	19.54
77-273	1 -1/2" x 3/4"	0.25	W 01065	14.96
77-272	1-1/2" x 1"	0.24	W 01064	14.60
77-271	1-1/2" x 1-1/4"	0.24	W 01060	14.67
77-277	2" x 1"	0.48	W 01074	29.70
77-276	2 x 1-1/4"	0.46	W 01073	29.87
77-275	2" x 1-1/2"	0.42	W 01069	22.68
77-280	2-1/2"x2"	0.79	W 01075	49.90
77-284	3" x 2-1/2"	1.15	W 01093	82.34

WC-400R 600-R

**FITTING REDUCER
FTG. C X C**

77-292	3/8" x 1/8"	0.01	W 01314	3.29
77-291	3/8" x 1/4"	0.02	W 01312	2.68
77-294	1/2" x 1/4"	0.03	W 01317	2.48
77-293	1/2" x 3/8"	0.03	W01315	2.97
77-295	5/8" X 1/2"	0.03	W 01320	5.48
77-299	3/4" x 1/4"			5.51
77-298	3/4" x 3/8"	0.05	W 01327	5.60
77-297	3/4" x 1/2"	0.06	W 01326	3.45
77-296	3/4" x 5/8"	0.08	W 01325	3.49
77-352	1" x 1/2"	0.10	W 01265	6.80
77-300	1"x3/4"	0.11	W 01337	5.53
77-356	1 -1/4" x 1/2"	0.14	W 01347	12.73
77-355	1 -1/4" x 3/4"	0.15	W 01345	9.62
77-354	1-1/4" x 1"	0.17	W 01343	9.87
77-360	1 -1/2" x 1/2"	0.21	W 01355	12.85
77-359	1 -1/2" x 3/4"	0.21	W 01353	12.85
77-358	1-1/2"x1"	0.22	W 01351	16.59
77-357	1 -1/2" X 1-1/4"	0.21	W 01350	12.60
77-365	2" x 1/2"	0.44	W 01364	34.95
77-364	2" x 3/4"	0.39	W 01362	32.92
77-363	2" x 1"	0.40	W 01360	32.92
77-362	2" x 1 -1/4"	0.38	W 01359	31.24
77-361	2" x 1-1/2"	0.39	W 01358	23.60
77-370	3" x 2-1/2"	0.93	W 01376	79.85

WC-403 600-2

COPPER FITTINGS

WROT SOLDER JOINT

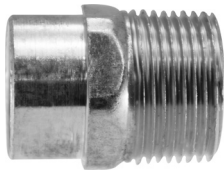
FLUSH BUSHING FTG. X C



Part#	Nominal	Approx Net Wt.	Ind #	List Price
77-382	3/4" x 1/2"	0.08	W 01726	5.95
77-383	3/4" x 5/8"	0.04	W 01725	6.71
77-387	1" x 1/2"	0.22	W 01739	11.08
77-385	1" x 3/4"	0.13	W 01737	9.84

WC-106 618

MALE ADAPTER C X M

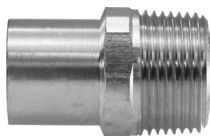


77-393	1/8"			19.19
77-394	1/4"			26.13
77-398	3/8"	0.06	W 01125	6.49
77-401	1/2"	0.08	WB01131	2.75
77-306	3/4"	0.14	WB01146	4.62
77-309	1"	0.24	WB01163	11.80
77-314	1-1/4"	0.41	W 01171	16.87
77-318	1-1/2"	0.50	W 01179	19.37
77-322	2"	0.87	W 01187	32.80
77-323	2-1/2"	0.87	W 01187	32.80
77-395	1/4" x 1/2"	0.09	W 01113	9.66
77-311	1/2" x 3/8"			6.71
77-303	1/2" x 3/4"	0.16	W 01130	7.95
77-304	1/2" x 1"	0.16	W 01130	19.50
77-308	3/4" x 1/2"			8.84
77-307	3/4" x 1"	0.29	W 01145	16.87
77-312	1" x 3/4"	0.18	W 01164	16.87
77-320	1-1/2" x 1-1/4"	0.44	W 01180	51.93

• 14 more reducing sizes available

WC-401 604

FTG. MALE ADAPTER FTG. X M



77-331	1/2"	0.09	W 01431	12.02
77-332	1/2" x 3/4"	0.15		32.85
77-333	3/4"	0.15	W 01446	14.94
77-334	1"	0.15	W 01463	19.88
77-335	1-1/4"	0.41	W 01471	77.69
77-336	1-1/2"	0.41	W 0147X9	77.59
77-337	2"	0.86	W 01487	152.15

WC-404 604-2

COPPER TUBING

SEE COPPER TUBING FOR REFRIGERATION AND DRINKING WATER ON PAGE 356

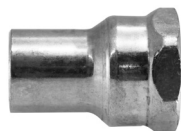


WROT SOLDER JOINT**COPPER FITTINGS****FEMALE ADAPTERS
C X F**

Part#	Nominal	Approx Net Wt.	Ind #	List Price
77-339	1/4"			7.81
77-340	3/8"	0.06	W 01225	11.56
77-343	1/2"	0.10	WB01231	4.36
77-349	3/4"	0.14	WB01246	5.73
77-402	1"	0.24	WB01263	13.24
77-406	1-1/4"	0.43	W 01271	19.37
77-410	1-1/2"	0.58	W 01279	31.07
77-413	2"	0.74	W 01287	41.16
77-416	3"	1.83	W 01297	286.49
77-341	3/8" x 1/2"	0.10	W 01224	10.44
77-347	1/2" x 1/4"	0.05	W 01233	6.49
77-346	1/2"x3/8"	0.70	W 01232	6.49
77-345	1/2" x 3/4"	0.15	WB01230	9.04
77-351	3/4" x 1/2"	0.11	W 01247	11.07
77-405	1"x 1/2"	0.29	W 01265	29.68
77-404	1"x3/4"	0.22	W 01264	19.37
77-411	1-1/4" x 1"	0.47	W01297	23.38
77-407	1-1/4" x 1-1/2"	0.52	W 01270	1.77

• More sizes available

WC402 603 WC402R 603R

**FEMALE FTG.
ADAPT. FTG. X F**

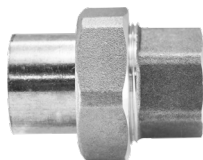
77-419	3/8"	0.05	W 01525	14.42
77-420	1/2"	0.11	W 01531	8.61
77-423	3/4"	0.19	W 01546	11.12
77-424	1"			24.20
77-425	1/4"	0.25	W 01563	41.06
77-426	1-1/2"	0.55	W 01579	49.86
77-427	2"	0.68	W 01587	71.63

WC405 603-2 WC405R 603R

CAP

77-429	1/4"	0.01	W 07004	1.53
77-430	3/8"	0.01	W 07006	1.77
77-431	1/2"	0.02	WB07007	0.92
77-432	5/8"	0.03	W 07008	2.68
77-433	3/4"	0.04	WB07009	1.70
77-434	1"	0.08	WB07011	4.18
77-435	1-1/4"	0.11	W 07012	5.54
77-436	1-1/2"	0.18	W 07013	8.10
77-437	2"	0.30	W 07014	14.57
77-438	2-1/2"	0.78	W07015	61.60

WC-415 617

UNIONS C X C

• LF = Lead Free

77-453	1/4"	0.11	W 08001	115.19
77-454	3/8"	0.11	W 08002	115.81
77-455LF	1/2"	0.17	W 08003	23.36
77-456LF	3/4"	0.37	W 08004	30.02
77-457LF	1"	0.51	W 08005	52.45
77-606LF	1-1/4"	0.98	W08006	75.33
77-607LF	1-1/2"	1.21	W08007	109.05
77-608LF	2"		W08008	189.45

WC-407

U-TYPE STRAP

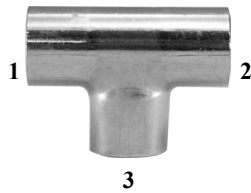
77-461	1/2"	0.03	A 02529	0.72
77-462	3/4"	0.03	A 02574	1.48
77-463	1"	0.04	A 02614	1.30
77-464	1-1/4"	0.04	A 02650	2.04
77-465	1-1/2"	0.05	A 02675	2.24
77-466	2"	0.06	A 02708	2.49

WS-1100

COPPER FITTINGS

WROT SOLDER JOINT

TEE C X C X C



Part#	Nominal 1 x 2 x 3	Approx Net Wt.	Ind #	List Price
77-467	1/8"	0.02	W 40306	9.16
77-468	1/4"	0.03	W 04000	9.69
77-470	3/8"	0.05	W 04001	7.77
77-473	1/2"	0.08	WB04006	2.24
77-481	5/8"	0.12	W 04017	14.02
77-483	3/4"	0.18	WB04031	5.41
77-490	1"	0.35	WB04048	16.24
77-504	1-1/4"	0.58	W 04068	22.92
77-519	1-1/2"	0.72	W 04084	33.68
77-543	2"	1.35	W 40102	55.08
77-563	2-1/2"	2.21	W 40123	140.27
77-589	3"	2.75	W 40152	140.27
77-475	1/2" x 1/2" x 1/4"	0.11		13.53
77-474	1/2"x1/2"x1"	0.13	W 04067	25.99
77-489	3/4"x1/2"x1/2"	0.15	WB04043	7.47
77-488	3/4" x 1/2" x 3/4"	0.19	WB04041	8.07
77-486	3/4" x 3/4" x 1/2"	0.15	WB04033	5.16
77-485	3/4"x3/4"x1"	0.25	W 04065	21.28
77-502	1"x1/2"x3/4"	0.34	W 04062	26.59
77-501	1"x1/2"x1"	0.34	W 04061	25.20
77-500	1"x3/4"x1/2"	0.27	W 04058	25.20
77-499	1"x3/4"x3/4"	0.31	W 04056	25.25
77-498	1"x3/4"x1"	0.38	W 04055	19.07
77-496	1"x1"x1/2"	0.24	WB04051	20.23
77-493	1"x1"x3/4"	0.29	WB04049	16.05
77-492	1"x1"x 1-1/4"	0.64	W 04082	47.23
77-518	1 -1/4"x 1/2" x 1-1/4"	0.58	W 04083	39.10
77-516	1-1/4"x3/4"x3/4"	0.60	W 04080	40.12
77-514	1 -1/4" x 3/4" x 1-1/4"	0.63	W 04078	30.31
77-511	1-1/4" x 1"x1"	0.50	W 04074	37.11
77-510	1-1/4" x 1"x 1-1/4"	0.62	W 04073	41.06
77-509	1-1/4"x1-1/4"x1/2"	0.33	W 04071	23.60
77-508	1-1/4" x 1-1/4" x 3/4"	0.39	W 04070	23.60
77-507	1-1/4"x1-1/4"x1"	0.47	W 04069	23.60
77-506	1 -1/4" x1 -1/4" x 1-1/2"	0.79	W 40100	67.71
77-524	1 -1/2" x 1 -1/2" x 1/2"	0.46	W 04088	30.69
77-523	1 -1/2" x 1-1/2" x 3/4"	0.51	W 04087	30.69
77-522	1-1/2" x 1-1/2" x1"	0.60	W 04086	25.71
77-521	1-1/2"x1-1/2"x 1-1/4"	0.72	W 04085	33.18
77-560	2"x1"x1"	0.98	W 40247	90.39
77-559	2"x1"x2"	1.34	W 40245	90.39
77-556	2" x 1-1/4" x 1-1/4"	1.14	W 40117	98.04
77-554	2" x 1 -1/2" x 3/4"	1.40	W 40113	90.39
77-549	2"x2"x1/2"	0.77	W 40107	39.66
77-548	2" x 2" x 3/4"	0.90	W 40106	39.66
77-547	2"x2"x1"	0.99	W 40105	40.89
77-546	2" x 2" x 1-1/4"	1.01	W 40104	45.40
77-545	2" x 2" x 1-1/2"	1.17	W 40103	54.13
77-588	3"x3"x1"	2.14	W 04075	166.58
77-587	3" x 3" x 1-1/4"	2.18	W 04074	180.08
77-585	3"x 3" x 2"	2.53	W 40150	180.08

WT-600 611