

COMPRESSION FITTINGS



These are NOT Lead Free

See pages 160-164 for Lead Free products

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18
Working Pressure	400	400	300	300	200	200	200	150	100	75

• Typical Application

Use with copper, aluminum and thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media.

• Pressure

See table above for working pressures at 73°F.

• Vibration

Fair resistance - use long nut when greater vibration resistance is needed.

• Temperature Range

-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures. (Refer to tubing temperature range.)

• Used With

Aluminum, copper, brass and plastic tubing. Plastic tubing requires insert. Not recommended for steel tubing.

• Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

• Conformance

Meets specifications and standards of ASA, ASME and SAE.

• Assembly Instructions

- 1- Cut tubing to desired length.
- 2- Slide nut and then sleeve on tube. Threaded end "A" of nut must face toward fitting.
- 3- Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
- 4- Lubricate threads and assemble nut to fitting body.
- 5- Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated in the chart below.

Tube Size	Additional Turns from Hand Tight
1/8" thru 1/4"	1-1/4"
5/16"	1-3/4"
3/8" thru 1"	2-1/4"

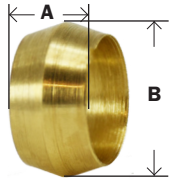
• "L" at the end of a Part# means **Light Pattern** - These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

Actual Profile of Compression Threads

5/16"-24	3/8"-24	7/16"-24	1/2"-24	9/16"-24	11/16"-20	13/16"-18	1"-18	1-1/8"-18 75 PSI
1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"

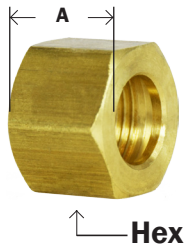
COMPRESSION**BRASS FITTINGS****BRASS SLEEVE**

• FERRULES

SAE# 060115

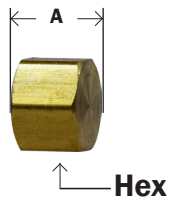
Part #	Size	A	B	Approx. Wt. Lbs.	List Price
18-001	1/8"	0.19	0.19	0.01	0.30
18-002	3/16"	0.22	0.27	0.01	0.21
18-003	1/4"	0.25	0.34	0.01	0.25
18-004	5/16"	0.25	0.41	0.01	0.20
18-005	3/8"	0.25	0.47	0.02	0.24
18-006	7/16"	0.31	0.53	0.02	0.57
18-007	1/2"	0.38	0.59	0.02	0.58
18-008	5/8"	0.38	0.71	0.03	0.62
18-009	3/4"	0.44	0.87	0.03	1.64
18-010	7/8"	0.41	0.99	0.03	1.05

60 260

BRASS NUT**SAE# 060110**

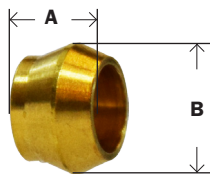
Part #	Size	Thread	A	Hex	Approx. Wt. Lbs.	List Price
18-033	1/8"	5/16-24	0.38	0.37	0.01	0.90
18-034	3/16"	3/8-24	0.41	0.43	0.01	0.53
18-035L	1/4"	7/16-24	0.44	0.50	0.02	0.57
18-035	1/4"	7/16-24	0.44	0.50	0.02	0.79
18-036	5/16"	1/2-24	0.44	0.56	0.02	0.85
18-037L	3/8"	9/16-24	0.47	0.62	0.04	0.90
18-037	3/8"	9/16-24	0.47	0.62	0.04	1.37
18-038	7/16"	5/8-24	0.50	0.68	0.04	3.87
18-039L	1/2"	11/16-20	0.56	0.75	0.04	1.83
18-039	1/2"	11/16-20	0.62	0.81	0.04	2.83
18-040L	5/8"	13/16-18	0.56	0.87	0.06	1.80
18-040	5/8"	13/16-18	0.62	0.94	0.06	3.15
18-041	3/4"	1-18	0.68	1.12	0.08	3.86
18-042	7/8"	1-1/8 - 18	0.62	1.25	0.10	4.88

61 261

CAP

Part #	Size	A	Hex	Approx. Wt. Lbs.	List Price
18-047	1/4"	0.44	0.50	0.02	1.39
18-048	3/8"	0.40	0.62	0.04	1.64
18-049	1/2"	0.48	0.75	0.06	3.64
18-050	5/8"	0.56	0.94	0.10	6.17

61-CC N5CT

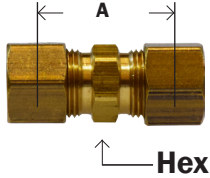
COMPRESSION PLUG

Part #	Size	A	B	Approx. Wt. Lbs.	List Price
18-029	3/8"	0.31	0.47	0.04	2.04
18-030	1/2"	0.34	0.59	0.06	2.83

CSP

UNION

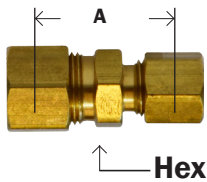
SAE# 060101BA



Part #	Size	A	Hex	Approx. Wt. Lbs.	List Price
18-062	1/8"	0.64	0.31	0.03	4.83
18-063	3/16"	0.75	0.37	0.04	2.39
18-064L	1/4"	0.79	0.43	0.06	2.55
18-064	1/4"	0.81	0.43	0.06	2.90
18-065	5/16"	0.88	0.50	0.06	3.72
18-066L	3/8"	0.96	0.56	0.09	3.55
18-066	3/8"	0.98	0.56	0.10	3.64
18-067	7/16"	1.02	0.62	0.12	19.44
18-068L	1/2"	1.06	0.68	0.16	7.66
18-068	1/2"	1.25	0.68	0.16	9.17
18-069L	5/8"	1.43	0.81	0.24	8.16
18-069	5/8"	1.25	0.81	0.26	11.91
18-070	3/4"	1.41	1.00	0.35	21.35
18-071L	7/8"	1.03	1.12	0.34	17.33
18-071	7/8"	1.00	1.12	0.36	17.12

M-62

REDUCING UNION

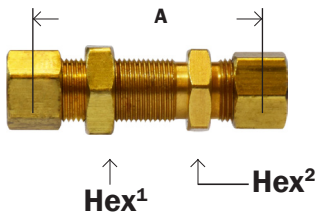


Part #	Size	A	Hex	Approx. Wt. Lbs.	List Price
18-076	1/4" x 1/8"	0.73	0.44	0.04	4.41
18-077	1/4" x 3/16"	0.78	0.44	0.06	7.99
18-078	5/16" x 1/4"	0.81	0.50	0.06	4.75
18-079	3/8" x 1/4"	0.90	0.56	0.10	7.20
18-080	3/8" x 5/16"	0.94	0.56	0.10	7.13
18-081	1/2" x 3/8"	1.03	0.68	0.12	8.12
18-082	5/8" x 3/8"	1.03	0.81	0.15	8.00
18-084	7/8" x 5/8"	1.23	1.18	0.20	29.44

62-R

BULKHEAD UNIONS

SAE# 060101



Part #	Size	A	Hex 1	Hex 2	Approx. Wt. Lbs.	List Price
18-088	1/4"	1.58	0.56	0.56	0.10	8.62
18-090	3/8"	1.76	0.68	0.68	0.14	23.77

62BH 75 274

BULKHEAD NUTS



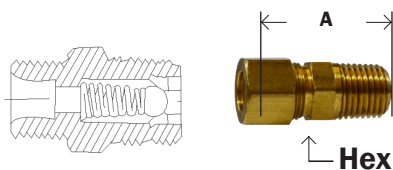
Part #	Size	A	Hex	Approx. Wt. Lbs.	List Price
18-097	1/4"	0.25	0.56	0.02	5.68
18-099	3/8"	0.25	0.68	0.04	6.28
18-100	1/2"	0.38	0.94	0.06	28.13

20102

COMPRESSION

BRASS FITTINGS

BALL CHECK VALVE - Min. Working pressure 3 psi.

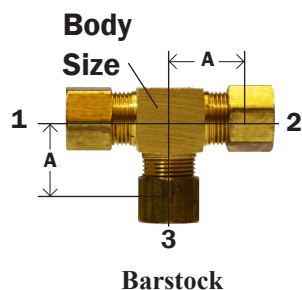
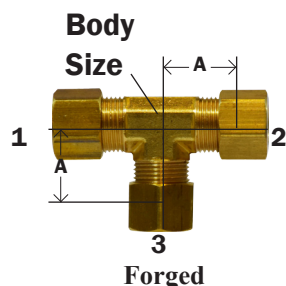


Part #	Tube OD x Male NPTF	A	Hex	Approx. Wt. Lbs.	List Price
18-092	1/8" x 1/8"	0.78	0.44	0.04	11.63
18-094	1/4" x 1/8"	0.88	0.44	0.04	12.20
18-096	3/8" x 1/4"	1.16	0.56	0.08	16.11

63 263 63A

TEE

SAE# 060401

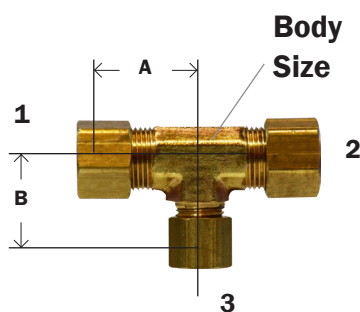


Part #	Size	A	Body Size	Approx. Wt. Lbs.	List Price
18-101	1/8"	0.61	0.37	0.04	12.96
18-101B*	1/8"	0.62	0.33	0.04	11.29
18-102	3/16"	0.59	0.36	0.08	5.80
18-102B*	3/16"	0.60	0.38	0.08	8.20
18-103	1/4"	0.63	0.36	0.10	5.35
18-103B*	1/4"	0.62	0.49	0.10	10.20
18-104	5/16"	0.72	0.50	0.13	8.49
18-104B*	5/16"	0.60	0.50	0.14	13.33
18-105	3/8"	0.75	0.50	0.16	7.34
18-105B*	3/8"	0.73	0.59	0.16	13.55
18-106	1/2"	0.94	0.59	0.22	14.36
18-106B*	1/2"	0.94	0.69	0.24	30.90
18-107	5/8"	1.06	0.69	0.28	15.31
18-108	3/4"	1.22	0.88	0.32	49.88
18-109	7/8"	1.25	0.94	0.34	40.07

* Barstock

64 264C

FORGED REDUCING TEE



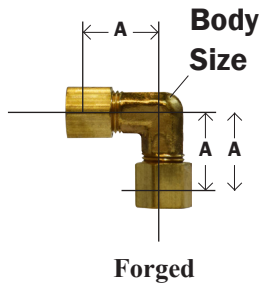
Part #	Size 1 x 2 x 3	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-114	1/4" x 1/4" x 1/8"	0.62	0.59	0.38	0.09	7.68
18-110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14	16.99
18-111	3/8" x 1/4" x 1/4"	0.75	0.69	0.50	0.12	10.44
18-115	3/8" x 3/8" x 1/4"	0.75	0.69	0.50	0.14	7.67
18-116	1/2" x 1/2" x 1/4"	0.94	0.81	0.59	0.16	14.50
18-117	1/2" x 1/2" x 3/8"	0.94	0.81	0.59	0.24	15.60
18-118	5/8" x 5/8" x 3/8"	1.06	0.94	0.69	0.28	18.66
18-119	5/8" x 5/8" x 1/2"	1.06	1.06	0.69	0.30	20.66

64-R

our life is what our thoughts make it. — Marcus Aurelius

UNION ELBOW

SAE# 060201

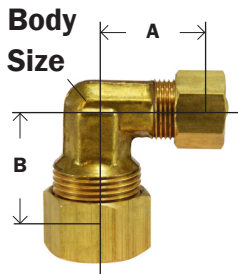


Part #	Size	A	Body Size	Approx. Wt. Lbs.	List Price
18-122B*	1/8"	0.62	0.35	0.04	8.32
18-123	3/16"	0.61	0.37	0.06	7.44
18-124	1/4"	0.66	0.38	0.08	4.80
18-125	5/16"	0.69	0.47	0.09	7.91
18-126	3/8"	0.72	0.43	0.12	6.33
18-127	1/2"	0.94	0.59	0.19	10.20
18-128	5/8"	1.06	0.72	0.26	10.71
18-129	3/4"	1.19	0.94	0.48	27.08
18-130	7/8"	1.25	0.94	0.44	30.00

Forged
Barstock

65 BSE2 165C 265C

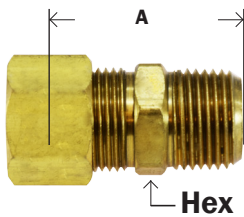
REDUCING ELBOW - Forged



Part #	Size	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-135	3/8" x 1/4"	0.69	0.75	0.47	0.12	10.57
18-136	1/2" x 3/8"	0.88	0.94	0.59	0.15	11.63
18-137	5/8" x 3/8"	0.88	0.97	0.56	0.18	16.10
31-137	3/8" OD x 5/8" OD	Chrome Plated				9.56

65-R

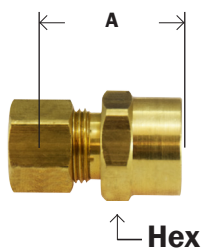
TANK ADAPTER DRILLED THRU (NO STOP)



Part #	Comp. X Male NPTF	A	Hex	Approx. Wt. Lbs.	List Price
18-208	1/4" x 1/8"	0.88	0.43	0.04	3.34
18-209	1/4" x 1/4"	0.99	0.56	0.05	2.51
18-210	3/8" x 1/4"	1.16	0.56	0.05	4.68
18-211	3/8" x 3/8"	1.09	0.68	0.08	3.88
18-212	3/8" x 1/2"	1.19	0.87	0.10	6.22
18-213	1/2" x 3/8"	1.22	0.68	0.12	8.40
18-214	1/2" x 1/2"	1.09	0.81	0.14	6.79
18-215	5/8" x 1/2"	1.12	0.81	0.18	8.01

68-T 682C 80F

COMP X SWEAT ADAPTER



Part #	Comp. X Sweat Adapter	A	Hex	Approx. Wt. Lbs.	List Price
18-171	3/8" x 1/2" nom.swt.	0.98	0.75	0.08	6.58
31-171	3/8" OD x 1/2" SWT	Chrome Plated			6.11

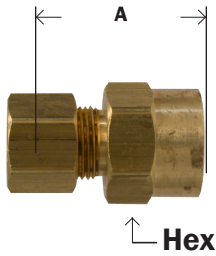
66-S

COMPRESSION

BRASS FITTINGS

FEMALE ADAPTER

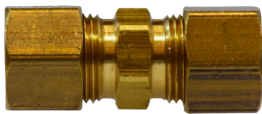
SAE# 060103



Part #	Comp. X Female NPTF	A	Hex	Approx. Wt. Lbs.	List Price
18-142	1/8" x 1/8"	0.75	0.56	0.02	3.43
18-143	3/16" x 1/8"	0.78	0.56	0.04	4.45
18-144	3/16" x 1/4"	0.96	0.68	0.04	10.42
18-145L	1/4" x 1/8"	0.84	0.50	0.05	1.96
18-145	1/4" x 1/8"	0.78	0.56	0.05	2.82
18-146L	1/4" x 1/4"	0.88	0.62	0.09	3.89
18-146	1/4" x 1/4"	1.03	0.68	0.09	6.40
18-148	1/4" x 1/2"	1.02	0.87	0.12	16.56
18-149	5/16" x 1/8"	0.81	0.56	0.05	3.95
18-150	5/16" x 1/4"	0.91	0.62	0.06	5.83
18-152	3/8" x 1/8"	0.88	0.56	0.06	3.89
18-153L	3/8" x 1/4"	0.97	0.62	0.08	4.96
18-153	3/8" x 1/4"	1.06	0.68	0.08	5.25
18-154L	3/8" x 3/8"	1.03	0.75	0.08	3.31
18-154	3/8" x 3/8"	1.06	0.81	0.10	7.47
18-155	3/8" x 1/2"	1.12	1.00	0.08	5.59
18-156	3/8" x 3/4"	1.19	1.16	0.14	16.89
18-157	1/2" x 1/4"	1.09	0.68	0.10	10.36
18-158L	1/2" x 3/8"	0.94	0.81	0.12	8.45
18-158	1/2" x 3/8"	1.12	0.81	0.12	8.45
18-159L	1/2" x 1/2"	1.19	1.00	0.12	6.71
18-159	1/2" x 1/2"	1.31	1.00	0.12	13.81
18-160	1/2" x 3/4"	1.25	1.16	0.18	16.15
18-162L	5/8" x 1/2"	1.20	0.94	0.18	7.37
18-162	5/8" x 1/2"	1.38	1.00	0.18	12.06
18-163	5/8" x 3/4"	1.20	1.12	0.22	10.58
18-164	3/4" x 1/2"	1.25	1.06	0.26	19.10
18-165	3/4" x 3/4"	1.28	1.19	0.28	27.63
18-167	7/8" x 1/2"	1.28	1.19	0.32	18.39
18-166	7/8" x 3/4"	1.31	1.12	0.34	22.09

66

DRILLED THRU UNION - NO STOP



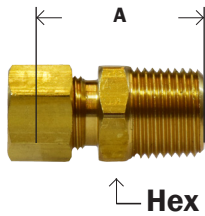
Part #	Size	List Price
18-066D	3/8"	5.72
18-069D	5/8"	13.38
18-071D	7/8"	30.66

A long life may not be good enough, but a good life is long enough.

-Benjamin Franklin

MALE ADAPTER

SAE# 060102



Part #	Comp. X Male NPTF	A	Hex	Approx. Wt. Lbs.	List Price
18-175	1/8" x 1/16"	0.78	0.37	0.02	8.49
18-176	1/8" x 1/8"	0.78	0.43	0.04	2.25
18-177	3/16" x 1/8"	0.84	0.43	0.04	1.95
18-178	3/16" x 1/4"	0.94	0.56	0.06	5.00
18-179L	1/4" x 1/8"	0.88	0.56	0.04	2.07
18-179	1/4" x 1/8"	0.88	0.43	0.04	2.02
18-180L	1/4" x 1/4"	0.94	0.56	0.05	1.77
18-180	1/4" x 1/4"	1.06	0.56	0.06	3.28
18-181	1/4" x 3/8"	1.03	0.68	0.08	3.23
18-182	1/4" x 1/2"	1.09	0.81	0.10	4.46
18-183	5/16" x 1/8"	0.91	0.50	0.05	2.74
18-184L	5/16" x 1/4"	1.01	0.56	0.06	3.54
18-184	5/16" x 1/4"	1.09	0.56	0.06	3.28
18-185	5/16" x 3/8"	1.06	0.68	0.07	5.96
18-186	5/16" x 1/2"	1.14	0.87	0.10	9.31
18-187L	3/8" x 1/8"	0.94	0.56	0.06	3.07
18-187	3/8" x 1/8"	0.97	0.56	0.06	4.23
18-188L	3/8" x 1/4"	1.03	0.56	0.06	3.33
18-188	3/8" x 1/4"	1.16	0.56	0.07	3.57
18-189L	3/8" x 3/8"	1.09	0.68	0.08	3.44
18-189	3/8" x 3/8"	1.14	0.69	0.08	4.59
18-190L	3/8" x 1/2"	1.19	0.88	0.12	5.28
18-190	3/8" x 1/2"	1.34	0.87	0.13	5.86
18-191	3/8" x 3/4"	1.29	1.06	0.16	11.56
18-192	7/16" x 1/4"	1.06	0.62	0.10	10.87
18-204	7/16" x 3/8"	1.10	0.68	0.12	8.88
18-193L	1/2" x 1/4"	1.09	0.69	0.11	6.33
18-193	1/2" x 1/4"	1.22	0.68	0.11	6.33
18-194L	1/2" x 3/8"	1.16	0.68	0.12	4.65
18-194	1/2" x 3/8"	1.16	0.69	0.12	5.01
18-195L	1/2" x 1/2"	1.09	0.81	0.12	5.71
18-195	1/2" x 1/2"	1.41	0.87	0.19	8.09
18-196	1/2" x 3/4"	1.38	1.06	0.22	8.09
18-197	5/8" x 3/8"	1.22	0.87	0.24	6.36
18-198	5/8" x 1/2"	1.12	0.81	0.24	7.28
18-199	5/8" x 3/4"	1.31	1.06	0.26	7.50
18-200	3/4" x 1/2"	1.44	1.00	0.26	11.98
18-201	3/4" x 3/4"	1.50	1.06	0.26	12.02
18-202	7/8" x 1/2"	1.18	1.12	0.26	18.85
18-203	7/8" x 3/4"	1.22	1.12	0.28	10.67
18-205	7/8" x 1"	1.67	1.37	0.32	56.21

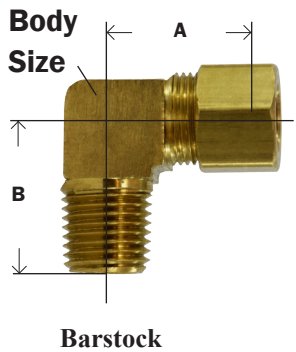
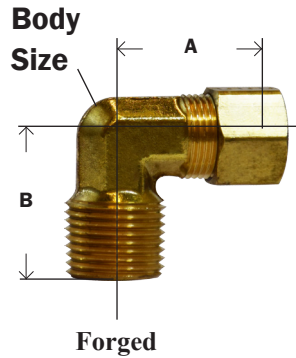
68

COMPRESSION

BRASS FITTINGS

MALE ELBOW

SAE# 060202

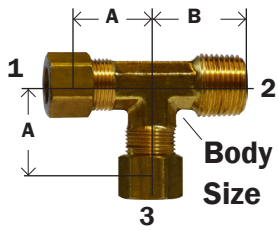


Part #	Comp. X Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-220	1/8" x 1/8"	0.59	0.75	0.34	0.02	3.59
18-220B*	1/8" x 1/8"	0.60	0.67	0.43	0.04	3.61
18-221	3/16" x 1/8"	0.63	0.72	0.34	0.04	4.43
18-221B*	3/16" x 1/8"	0.62	0.69	0.43	0.06	3.42
18-223	3/16" x 1/4"	0.60	0.81	0.39	0.05	5.19
18-224	1/4" x 1/8"	0.60	0.75	0.37	0.06	3.69
18-224B*	1/4" x 1/8"	0.62	0.75	0.43	0.06	3.02
18-225	1/4" x 1/4"	0.65	0.94	0.36	0.08	3.51
18-225B*	1/4" x 1/4"	0.61	0.81	0.56	0.08	3.61
18-226	1/4" x 3/8"	0.75	0.91	0.47	0.08	4.82
18-227	1/4" x 1/2"	0.81	1.13	0.56	0.12	7.80
18-228	5/16" x 1/8"	0.66	0.75	0.47	0.06	5.12
18-228B*	5/16" x 1/8"	0.62	0.75	0.42	0.06	4.22
18-229	5/16" x 1/4"	0.66	0.81	0.47	0.07	5.07
18-229B*	5/16" x 1/4"	0.69	0.84	0.57	0.08	6.66
18-230	5/16" x 3/8"	0.75	0.91	0.47	0.10	5.97
18-231	5/16" x 1/2"	0.84	1.12	0.56	0.12	9.58
18-232	3/8" x 1/8"	0.72	0.66	0.39	0.06	4.09
18-232B*	3/8" x 1/8"	0.69	0.69	0.57	0.06	7.02
18-233	3/8" x 1/4"	0.75	0.82	0.46	0.08	5.39
18-233B*	3/8" x 1/4"	0.75	0.94	0.57	0.08	5.41
18-234	3/8" x 3/8"	0.81	0.94	0.46	0.10	5.65
18-234B*	3/8" x 3/8"	0.71	0.83	0.69	0.10	9.54
18-235	3/8" x 1/2"	0.87	1.12	0.56	0.14	11.62
18-235B*	3/8" x 1/2"	0.88	1.16	0.94	0.14	18.81
18-248	3/8" x 3/4"	1.03	1.19	0.81	0.18	12.11
18-247	7/16" x 1/4"	0.84	1.00	0.56	0.14	10.29
18-236	1/2" x 1/4"	0.88	0.97	0.56	0.14	8.30
18-237	1/2" x 3/8"	0.88	1.03	0.56	0.19	7.39
18-237B*	1/2" x 3/8"	0.94	1.12	0.70	0.19	10.64
18-238	1/2" x 1/2"	0.94	1.13	0.59	0.17	8.33
18-238B*	1/2" x 1/2"	0.94	1.31	0.86	0.17	16.89
18-239	1/2" x 3/4"	1.16	1.25	0.81	0.18	14.72
18-240	5/8" x 3/8"	1.06	1.12	0.68	0.18	9.05
18-241	5/8" x 1/2"	1.06	1.16	0.68	0.20	9.80
18-241B*	5/8" x 1/2"	1.06	1.31	0.86	0.20	16.94
18-242	5/8" x 3/4"	1.16	1.31	0.81	0.24	15.57
18-243	3/4" x 1/2"	1.19	1.31	0.94	0.26	16.79
18-245	3/4" x 3/4"	1.19	1.38	0.94	0.30	18.99
18-246	7/8" x 3/4"	1.25	1.38	0.94	0.35	29.10

* Barstock

69 269C BSE1 169C

FORGED MALE RUN TEE

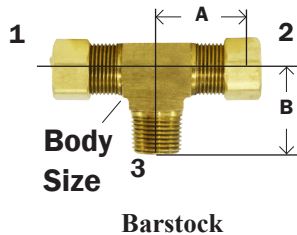
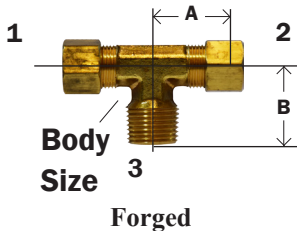


Part #	Comp. X Male NPTF (1&3) X 2	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-272	1/8" x 1/8"	0.63	0.69	0.36	0.06	6.65
18-273	3/16" x 1/8"	0.63	0.69	0.36	0.07	6.65
18-274	1/4" x 1/8"	0.63	0.75	0.36	0.08	5.73
18-275	1/4" x 1/4"	0.69	0.88	0.44	0.10	6.78
18-276	5/16" x 1/8"	0.72	0.75	0.50	0.10	8.93
18-277	5/16" x 1/4"	0.75	0.88	0.44	0.10	8.67
18-278	3/8" x 1/8"	0.75	0.75	0.50	0.14	9.60
18-279	3/8" x 1/4"	0.79	0.87	0.44	0.18	7.43
18-280	3/8" x 3/8"	0.88	1.00	0.47	0.20	11.45
18-281	1/2" x 3/8"	0.94	1.09	0.59	0.24	13.94
18-282	1/2" x 1/2"	0.97	1.19	0.69	0.26	18.19
18-283	5/8" x 1/2"	1.06	1.31	0.69	0.28	16.97
18-284	3/4" x 1/2"	1.22	1.34	0.88	0.30	40.26

71 171C BST3

MALE BRANCH TEE

SAE# 060425



Part #	Comp. X Male NPTF (1&2) X 3	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-290	3/16" x 1/8"	0.63	0.69	0.36	0.08	8.66
18-291	1/4" x 1/8"	0.62	0.75	0.36	0.10	6.20
18-291B*	1/4" x 1/8"	0.64	0.73	0.45	0.10	10.61
18-292	1/4" x 1/4"	0.69	0.86	0.44	0.10	7.18
18-293	5/16" x 1/8"	0.72	0.75	0.50	0.11	7.18
18-294	5/16" x 1/4"	0.75	0.88	0.44	0.12	8.03
18-295	3/8" x 1/8"	0.75	0.75	0.50	0.14	9.59
18-296	3/8" x 1/4"	0.78	0.88	0.44	0.16	7.35
18-297	3/8" x 3/8"	0.78	0.97	0.47	0.18	10.77
18-298	3/8" x 1/2"	0.88	1.22	0.69	0.20	16.49
18-304	1/2" x 1/4"	0.94	0.97	0.59	0.22	14.26
18-299B*	1/2" x 3/8"	0.96	1.09	0.70	0.24	26.78
18-299	1/2" x 3/8"	0.94	1.12	0.59	0.24	13.65
18-300	1/2" x 1/2"	0.97	1.19	0.69	0.30	17.25
18-301	5/8" x 1/2"	1.06	1.31	0.69	0.32	19.43
18-302	3/4" x 1/2"	1.22	1.34	0.88	0.50	43.18
18-303	3/4" x 3/4"	1.25	1.50	0.88	0.54	40.66

* Barstock

72 BST1 172C

Be glad of life because it gives you the chance to love and to work and to play and to look up at the stars.

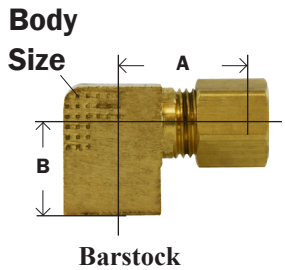
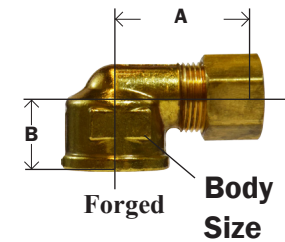
— Henry Van Dyke

COMPRESSION

BRASS FITTINGS

FEMALE ELBOW

SAE# 060203

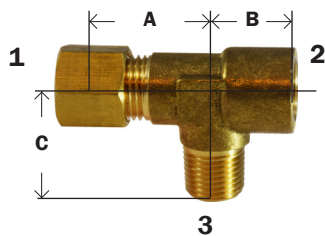


Part #	Comp. X Female NPTF	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-251	1/8" x 1/8"	0.69	0.56	0.56	0.04	8.46
18-252	3/16" x 1/8"	0.69	0.47	0.56	0.04	5.01
18-253	1/4" x 1/8"	0.69	0.47	0.56	0.06	4.98
18-253B*	1/4" x 1/8"	0.69	0.56	0.56	0.06	6.00
18-254	1/4" x 1/4"	0.75	0.50	0.72	0.08	5.64
18-267	1/4" x 3/8"	0.81	0.58	0.81	0.08	7.99
18-268	1/4" x 1/2"	0.89	0.66	1.00	0.10	10.57
18-255	5/16" x 1/8"	0.72	0.84	0.47	0.08	9.21
18-256	5/16" x 1/4"	0.78	0.50	0.72	0.09	7.18
18-257	3/8" x 1/8"	0.75	0.84	0.47	0.10	5.94
18-258	3/8" x 1/4"	0.84	0.59	0.75	0.10	6.33
18-259	3/8" x 3/8"	0.88	0.58	0.81	0.12	7.31
18-260	3/8" x 1/2"	0.97	0.66	1.00	0.14	8.39
18-250	3/8" x 3/4"	1.09	0.72	1.25	0.18	13.38
18-261	1/2" x 1/4"	1.06	0.70	0.88	0.18	11.66
18-262	1/2" x 3/8"	1.00	0.70	0.88	0.16	9.73
18-263	1/2" x 1/2"	1.03	0.72	1.00	0.20	10.04
18-270	1/2" x 3/4"	1.16	0.72	1.25	0.23	14.42
18-269	5/8" x 3/8"	1.09	0.77	1.00	0.20	14.76
18-264	5/8" x 1/2"	1.09	0.77	1.00	0.22	11.48
18-265	5/8" x 3/4"	1.22	0.77	1.25	0.24	15.75
18-266	3/4" x 1/2"	1.25	1.25	0.94	0.28	25.79

* Barstock

70 270C BSE3 170C

FORGED TEE



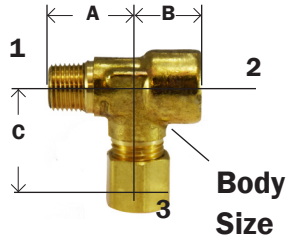
Part #	Comp. X Female NPTF x Male NPTF 1x(2&3)	A	B	C	Approx. Wt. Lbs.	List Price
18-307	1/4" x 1/8"	0.72	0.53	0.72	0.20	7.73

71 171C BST3

Don't be afraid to give your best to what seemingly are small jobs. Every time you conquer one it makes you that much stronger. If you do the little jobs well, the big ones will tend to take care of themselves.

- Dale Carnegie

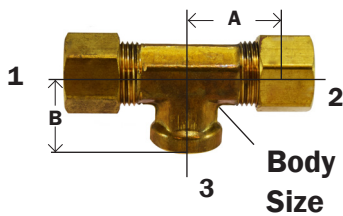
ADAPTER TEE



Part #	Male NPTF x Female NPTF x Comp. 3x (1&2)	A	B	C	Body Size	Approx. Wt. Lbs.	List Price
18-314	1/8" x 1/4"	0.72	0.53	0.72	0.47	0.08	8.56
18-316	3/8" x 1/4"	0.84	0.97	0.81	0.47	0.10	9.97

76 176C

FEMALE BRANCH FORGED TEE

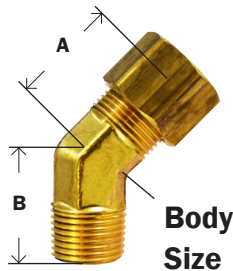


Part #	Comp. X Female NPTF (1&2)x3	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-321	1/4" x 1/8"	0.78	0.75	0.45	0.10	7.37
18-328	1/4" x 1/4"	0.78	0.75	0.44	0.12	11.51
18-325	3/8" x 1/8"	0.75	0.63	0.50	0.12	9.57
18-322	3/8" x 1/4"	0.81	0.97	0.47	0.14	11.59
18-323	3/8" x 3/8"	0.97	0.69	1.05	0.16	17.32
18-326	1/2" x 1/8"	0.94	0.75	0.59	0.20	15.17
18-324	1/2" x 3/8"	1.00	0.72	0.88	0.22	22.81
18-327	5/8" x 1/8"	1.06	0.81	0.69	0.26	20.57

78 BST4 77 177C 2908

45° ELBOW

SAE# 060302

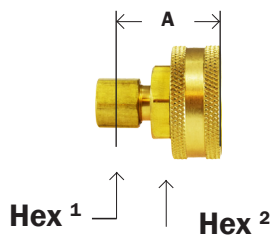


Part #	Comp. X Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	List Price
18-329	3/16" x 1/8"	0.40	0.63	0.41	0.04	5.72
18-330	1/4" x 1/8"	0.40	0.61	0.41	0.04	5.26
18-336	1/4" x 1/4"	0.59	0.84	0.53	0.06	7.71
18-331	5/16" x 1/8"	0.59	0.65	0.53	0.06	8.47
18-332	5/16" x 1/4"	0.59	0.83	0.53	0.08	8.96
18-333	3/8" x 1/4"	0.62	0.83	0.53	0.08	6.89
18-338	3/8" x 3/8"	0.75	0.95	0.59	0.10	18.75
18-334	1/2" x 3/8"	0.75	0.88	0.59	0.14	8.52
18-339	1/2" x 1/2"	0.94	1.14	0.75	0.14	16.54
18-335	5/8" x 1/2"	0.78	1.14	0.78	0.14	17.60

6945 45BSE1 74 179C 273 77

GARDEN HOSE SWIVEL

•WASHER INCLUDED



Part #	Compression x FGH	A	Hex 1	Hex 2	Approx. Wt. Lbs.	List Price
30-050	1/4" x 3/4"	1.02	0.50	0.75	0.09	8.63
30-051	3/8" x 3/4"	1.04	0.62	0.75	0.12	8.10

COMPRESSION

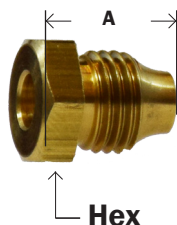
BRASS FITTINGS

DOUBLE COMPRESSION THREADED SLEEVE FITTINGS

- Use with aluminum and copper tubing or plastic tubing with internal tube support. Not recommended for steel tubing.
- Easy to assemble, no flaring, two piece construction.
- For use on oil, air, water and grease lubrication systems.
- When design makes a dimension critical, contact us for information.

Tube OD	1/8	3/16	1/4	5/16	3/8
Thread	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20
Working Pressure	500	500	500	250	250

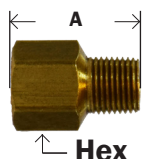
NUT



Part #	Size	A	Hex	Approx. Wt. Lbs.	List Price
16-001	1/8"	0.50	0.37	0.02	1.18
16-002	3/16"	0.53	0.43	0.02	2.20
16-003	1/4"	0.56	0.50	0.04	2.92
16-004	5/16"	0.61	0.56	0.04	3.39
16-005	3/8"	0.61	0.62	0.04	3.84

181 6100 11

MALE ADAPTER

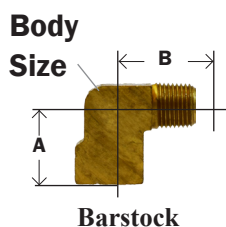


Part #	THRD Sleeve x Male NPTF	A	Hex	Approx. Wt. Lbs.	List Price
16-117	1/8" x *	0.62	0.43	0.02	13.26
16-118	1/8" x 1/8"	0.62	0.43	0.02	2.62
16-119	3/16" x 1/8"	0.69	0.43	0.02	3.30
16-121	1/4" x 1/8"	0.75	0.50	0.04	2.93
16-122	5/16" x 1/8"	0.89	0.56	0.04	5.72
16-123	3/8" x 1/4"	0.84	0.62	0.06	8.28

* 1/4 - 28 Male Thread Tapered.

188 6200 12

90° ELBOW



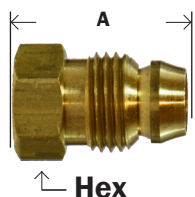
Barstock

Part #	THRD Sleeve x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	List Price
16-127	1/8" x *	0.50	0.52	0.41	0.02	10.12
16-128	1/8" x 1/8"	0.50	0.66	0.43	0.02	14.94
16-129	3/16" x 1/8"	0.56	0.62	0.44	0.02	33.70
16-130	1/4" x 1/8"	0.52	0.62	0.50	0.04	23.56

* 1/4 - 28 Male Thread Tapered

189 6400 15

BREAK-AWAY NUT



- 1-Piece Fiting

Part #	Size	A	Hex	Approx. Wt. Lbs.	List Price
16-090	3/16"	0.57	0.37	0.02	8.42
16-010	1/4"	0.62	0.43	0.02	2.09

* Threaded sleeve fittings on page 85.

181-BA 21604 99LB 81LB

I never did a day's work in my life. It was all fun.

-Thomas A. Edison