

PIPE



Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1
Thread Size	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 ^{1/2}
Working Pressure	1200	1200	1200	1200	1200	1000	1000
Thread OD	1/4	3/8	1/2	5/8	3/4	1	1-1/4

• **Typical Application**

Grease, fuels, LP and Natural gas (available on special order), refrigeration, instrumentation and hydraulic systems.

• **Pressure**

Operating pressure up to 1200 PSI.

• **Vibration**

Fair resistance.

• **Temperature Range**

-65°F to +250°F (-53°C to +121°C).

• **Used With**

Brass, bronze, copper, steel, aluminum and iron pipe.

• **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

• Not lead free

• “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.

• **Assembly Instructions**

- 1- Tighten approximately 2-1/2 turns past hand tight.
- 2- Fittings with Everseal tighten two turns past hand tight. Brittle materials require special cautions.



• see page 310-312 for plastic pipe fittings.



• **Lead Free Fittings**

see pages 162-164



• **For Bronze & Larger Sizes**

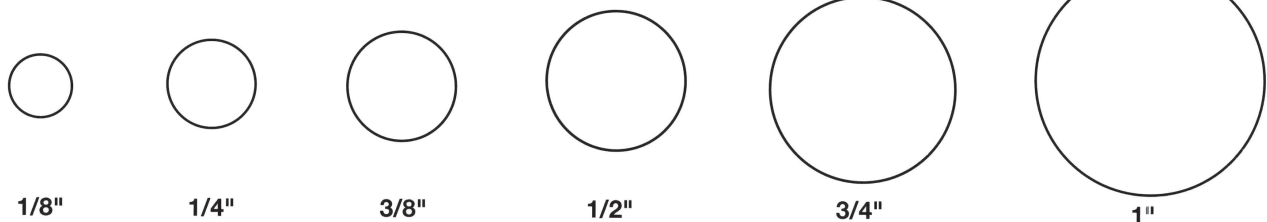
see pages 224-232



• **For BSPT/ BSPP**

see pages 117-118

Actual outside diameters of pipe threads



Actual Male Thread Profiles

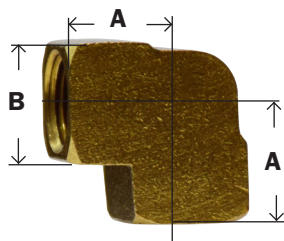


PIPE

BRASS FITTINGS

90° FEMALE ELBOW

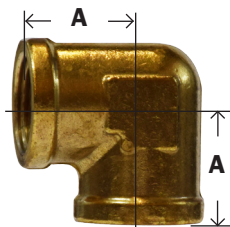
SAE# 130238



Part #	Thread Size NPTF	A	B	Approx. Wt. Lbs.	List Price
28-001	1/8"	0.55	0.56	0.09	----
28-002	1/4"	0.78	0.68	0.13	----
28-003	3/8"	0.84	0.81	0.16	----
28-004	1/2"	1.09	1.00	0.34	----
28-005	3/4"	1.16	1.25	0.60	----

100 2200P 3500 302 200

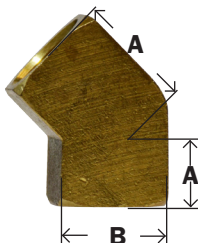
90° FORGED FEMALE ELBOW



Part #	Thread size NPTF	A	Body Width	Approx. Wt. Lbs.	List Price
28-009	1/8"	0.57	0.50	0.04	----
28-010	1/4"	0.70	0.68	0.10	----
28-011	3/8"	0.81	0.81	0.12	----
28-012	1/2"	1.00	1.00	0.23	----
28-013	3/4"	1.13	1.25	0.42	----
28-014	1/4" x 1/8"	0.72	0.69	0.12	----
28-015	3/8" x 1/4"	0.81	0.81	0.15	----
28-016	1/2" x 3/8"	1.00	1.00	0.28	----
28-017	1"	1.42	1.50	0.75	----

1200P E7 100AF 100B

45° FEMALE ELBOW

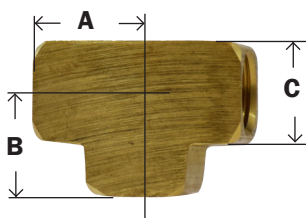


Part #	Thread size NPTF	A	B	Approx. Wt. Lbs.	List Price
28-018	1/8"	0.45	0.56	0.06	----
28-019	1/4"	0.66	0.68	0.12	----
28-020	3/8"	0.69	0.81	0.16	----

129 2201P 205 23355 45EZ 105 100-45A

UNION TEE

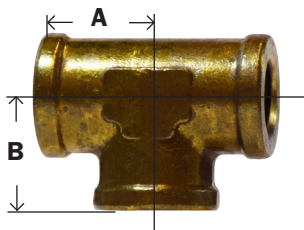
SAE# 130438



Part #	Thread size NPTF	A	B	C	Approx. Wt. Lbs.	List Price
28-024	1/8"	0.55	0.55	0.56	0.08	----
28-025	1/4"	0.78	0.78	0.68	0.17	----
28-026	3/8"	0.84	0.84	0.81	0.22	----
28-027	1/2"	1.09	1.09	1.00	0.43	----
28-028	3/4"	1.16	1.16	1.25	0.64	----

311 101A 322 2203P 3700 203

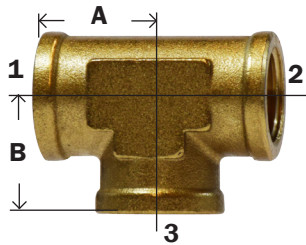
UNION FORGED TEE



Part #	Thread size NPTF	A & B	Body Width	Approx. Wt. Lbs.	List Price
28-032	1/8"	0.56	0.50	0.06	----
28-033	1/4"	0.71	0.68	0.13	----
28-034	3/8"	0.81	0.81	0.16	----
28-035	1/2"	1.00	1.00	0.27	----
28-036	3/4"	1.16	1.25	0.53	----
28-023	1"	1.42	1.50	.924	----

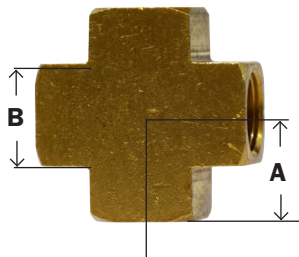
1203P LT7 101AF 101B

REDUCING FORGED TEES



Part #	1 NPT	2 NPT	3 NPT	A & B	Body Width	Approx. Wt. Lbs.	List Price
28-029	1/8"	1/8"	1/4"	0.72	0.69	0.16	----
28-030	1/4"	1/4"	1/8"	0.72	0.69	0.14	----
28-031	1/4"	1/4"	3/8"	0.81	0.81	0.21	----
28-038	3/8"	1/4"	3/8"	0.81	0.81	0.18	----
28-039	3/8"	3/8"	1/4"	0.81	0.81	0.18	----
28-046	1/2"	1/2"	3/8"	1.00	1.00	0.30	----
28-048	3/4"	3/4"	1/2"	1.16	1.25	0.59	----

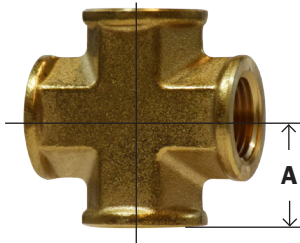
CROSS



Part #	Thread size NPTF	A	B	Approx. Wt. Lbs.	List Price
28-041	1/8"	0.55	0.56	0.10	----
28-042	1/4"	0.78	0.68	0.21	----
28-043	3/8"	0.84	0.81	0.25	----
28-044	1/2"	1.09	1.00	0.51	----
28-045	3/4"	1.16	1.25	0.75	----

2205P 3950 228 102A 102BE

FORGED CROSS

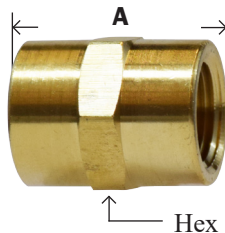


Part #	Thread size NPTF	A	Body Width	Approx. Wt. Lbs.	List Price
28-049	1/8"	0.56	0.50	0.06	----
28-050	1/4"	0.72	0.69	0.15	----
28-051	3/8"	0.81	0.81	0.18	----
28-052	1/2"	1.00	1.00	0.34	----

C7 105 102AF 102B

COUPLING

SAE# 130138



Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-058L	1/8"	0.75	0.50	0.02	----
28-058	1/8"	0.75	0.56	0.03	----
28-059L	1/4"	0.88	0.63	0.03	----
28-059	1/4"	1.12	0.75	0.09	----
28-060L	3/8"	1.00	0.81	0.06	----
28-060	3/8"	1.12	0.87	0.10	----
28-061L	1/2"	1.19	0.93	0.09	----
28-061	1/2"	1.50	1.06	0.19	----
28-062L	3/4"	1.19	1.25	0.18	----
28-062	3/4"	1.53	1.25	0.24	----
28-063	1"	1.89	1.50	.357	----

207P 371 3300 103AH 103B



* For larger sizes, see bronze fittings on pg. 224-232



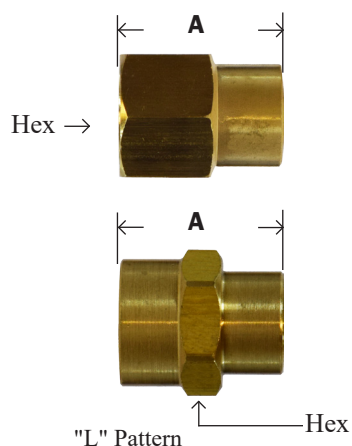
See hydraulic pipe fittings pg 420

PIPE

BRASS FITTINGS

REDUCING COUPLING

SAE# 130138

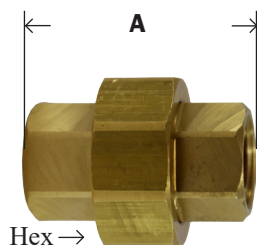


Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-181L	1/4" x 1/8"	0.94	0.62	0.04	----
28-181	1/4" x 1/8"	0.97	0.75	0.08	----
28-182	3/8" x 1/8"	0.94	0.87	0.10	----
28-183L	3/8" x 1/4"	1.00	0.81	0.06	----
28-183	3/8" x 1/4"	1.16	0.87	0.12	----
28-180*	1/2" x 1/8"	1.19	0.93	0.15	----
28-184L	1/2" x 1/4"	1.11	1.00	0.10	----
28-184	1/2" x 1/4"	1.28	1.06	0.20	----
28-185L	1/2" x 3/8"	1.19	0.93	0.10	----
28-185	1/2" x 3/8"	1.38	1.06	0.20	----
28-188*	3/4" x 3/8"	1.32	1.37	0.20	----
28-189*	3/4" x 1/2"	1.19	1.18	0.14	----

*Not to SAE specs

377 3300 208P 108 119B 119AH

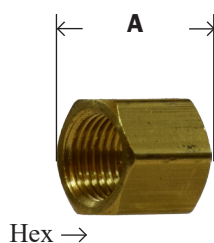
UNION



Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-067	1/8"	1.25	0.94	0.13	----
28-068	1/4"	1.31	1.06	0.18	----
28-069	3/8"	1.75	1.25	0.33	----
28-070	1/2"	1.79	1.56	0.50	----

3250 212P 104A 104B

CAP

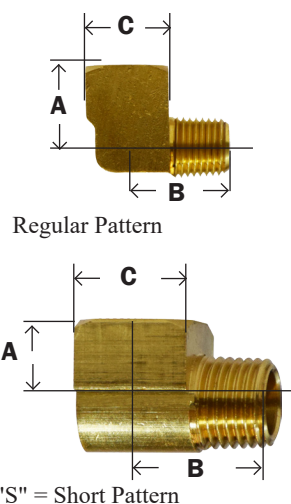


Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-075	1/8"	0.47	0.56	0.03	----
28-076	1/4"	0.60	0.68	0.04	----
28-077	3/8"	0.69	0.81	0.06	----
28-078	1/2"	0.78	0.93	0.08	----
28-079	3/4"	0.94	1.25	0.16	----
28-080	1"	1.13	1.50	0.23	----

3129 213P 23129 108A 108B

90° STREET ELBOW

SAE# 130239



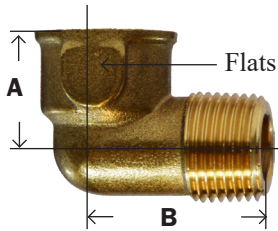
Part #	Thread size NPTF	A	B	C	Approx. Wt. Lbs.	List Price
28-156	1/8"	0.48	0.66	0.56	0.05	----
28-156S	1/8" short	0.34	0.57	0.50	0.03	----
28-157	1/4"	0.72	0.91	0.68	0.09	----
28-157S	1/4" short	0.45	0.78	0.68	0.07	----
28-158	3/8"	0.78	0.97	0.81	0.16	----
28-159	1/2"	1.03	1.25	1.00	0.33	----
28-160	3/4"	1.12	1.38	1.25	0.52	----

2202P 304 115 202 3400 116A



See hydraulic pipe fittings pg 420

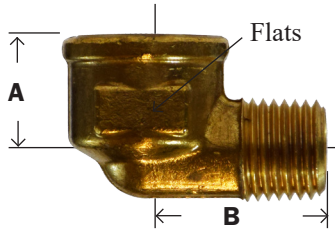
FORGED 90° STREET ELBOW



Part #	Thread size NPTF	A	B	Wrench Flats	Approx. Wt. Lbs.	List Price
28-165	1/8"	0.61	0.85	0.62	0.06	----
28-166	1/4"	0.50	0.86	0.72	0.08	----
28-167	3/8"	0.70	1.00	0.88	0.10	----
28-168	1/2"	0.96	1.43	1.00	0.20	----
28-169	3/4"	0.90	1.40	1.25	0.25	----

5E8 1202P 116AF 116B

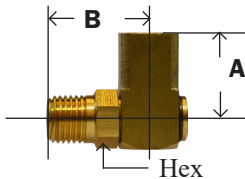
FORGED REDUCING 90° STREET ELBOW



Part #	Thread size NPTF FxM	A	B	Wrench flats	Approx. Wt. Lbs.	List Price
28-260	1/8" x 1/4"	0.50	0.87	0.71	0.08	----
28-261B*	1/4" x 1/8"	0.53	0.72	0.69	0.07	----
28-261	1/4" x 1/8"	0.50	0.81	0.72	0.06	----
28-262	1/4" x 3/8"	0.93	1.06	0.59	0.12	----
28-263	3/8" x 1/4"	0.58	0.94	0.81	0.07	----
28-264	3/8" x 1/2"	0.97	1.36	1.00	0.28	----
28-265	1/2" x 3/8"	0.96	1.37	1.00	0.22	----

*Barstock

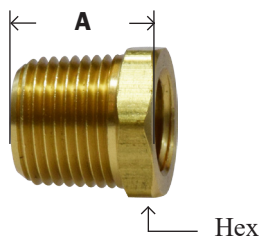
PIPE SWIVEL 90° STREET ELBOW



Part #	Thread size NPTF	A	B	Hex	Approx. Wt. Lbs.	List Price
28-430	1/4"	1.18	1.25	.625	0.22	----

HEX BUSHING

SAE# 130140



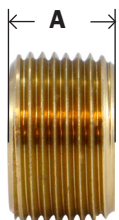
Part #	Thread size NPTF MxF	A	Hex	Approx. Wt. Lbs.	List Price
28-102L	1/4" x 1/8"	0.62	0.56	0.02	----
28-102	1/4" x 1/8"	0.75	0.56	0.04	----
28-103	3/8" x 1/8"	0.75	0.68	0.05	----
28-104L	3/8" x 1/4"	0.69	0.68	0.03	----
28-104	3/8" x 1/4"	0.75	0.75	0.05	----
28-105L	1/2" x 1/8"	0.81	0.81	0.08	----
28-105	1/2" x 1/8"	1.00	0.87	0.10	----
28-106L	1/2" x 1/4"	0.81	0.81	0.08	----
28-106	1/2" x 1/4"	1.00	0.87	0.11	----
28-107L	1/2" x 3/8"	0.81	0.81	0.05	----
28-107	1/2" x 3/8"	1.00	0.87	0.10	----
28-108	3/4" x 1/8"	0.94	1.06	0.20	----
28-109L	3/4" x 1/4"	0.94	1.06	0.18	----
28-110L	3/4" x 3/8"	0.94	1.06	0.15	----
28-111L	3/4" x 1/2"	0.94	1.06	0.11	----
28-111	3/4" x 1/2"	1.00	1.12	0.14	----
28-112	1" x 1/4"	1.15	1.37	0.32	----
28-113	1" x 3/8"	1.12	1.37	0.30	----
28-114	1" x 1/2"	1.31	1.44	0.29	----
28-115	1" x 3/4"	1.31	1.37	0.20	----

373 3220 209P 110A 110B

PIPE

BRASS FITTINGS

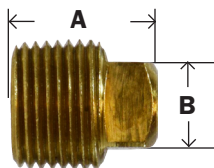
FACE BUSHING



Part #	Thread size NPTF MxF	A	Approx. Wt. Lbs.	List Price
28-121	1/4" x 1/8"	0.45	0.01	----
28-122	3/8" x 1/8"	0.50	0.03	----
28-116	3/8" x 1/4"	0.50	0.02	----
28-090	1/2" x 1/8"	0.56	0.06	----
28-128	1/2" x 1/4"	0.56	0.05	----
28-117	1/2" x 3/8"	0.56	0.03	----
28-129	3/4" x 1/4"	0.62	0.11	----
28-130	3/4" x 3/8"	0.62	0.08	----
28-118	3/4" x 1/2"	0.64	0.03	----
28-119	1" x 3/4"	0.77	0.10	----

SQUARE HEAD PLUG

1/8 - 1/2 Solid



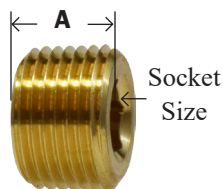
Part #	Thread size NPTF	A	B	Approx. Wt. Lbs.	List Price
28-084	1/8"	0.58	0.27	0.02	----
28-085	1/4"	0.80	0.37	0.03	----
28-086	3/8"	0.80	0.43	0.06	----
28-087	1/2"	1.07	0.55	0.13	----
28-088**	3/4"	1.11	0.61	0.20	----
28-089**	1"	1.24	0.81	0.35	----

** Cored

3151 211P 109A 109B

COUNTERSUNK HEX PLUG

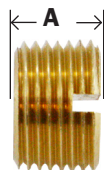
3/4" taper thread



Part #	Thread size NPTF	A	Socket size	Approx. Wt. Lbs.	List Price
28-092	1/16"	0.30	0.12	0.01	----
28-093	1/8"	0.30	0.18	0.01	----
28-094	1/4"	0.45	0.26	0.02	----
28-095	3/8"	0.45	0.31	0.03	----
28-096	1/2"	0.61	0.39	0.05	----
28-097	3/4"	0.62	0.56	0.10	----

3153 219P 109CS 118

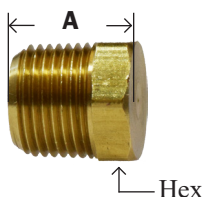
SLOTTED-HEAD PLUG



Part #	Thread size NPTF	A	Approx. Wt. Lbs.	List Price
28-174	1/8"	0.31	0.01	----
28-175	1/4"	0.42	0.02	----
28-176	3/8"	0.45	0.05	----

220P 3150 117A 117B

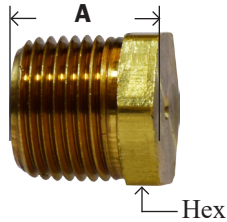
CORED HEX PLUGS



Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-201	1/8"	0.55	0.43	0.01	----
28-202	1/4"	0.62	0.56	0.02	----
28-203	3/8"	0.72	0.68	0.06	----
28-204	1/2"	0.81	0.87	0.09	----
28-205	3/4"	0.94	1.06	0.16	----
28-206	1"	1.16	1.37	0.28	----

218P 3152 121A 103 121B PPH 218P

SOLID HEX HEAD PLUGS

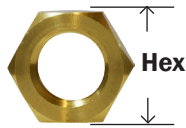


Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-201S	1/8"	0.55	0.43	0.02	----
28-202S	1/4"	0.75	0.56	0.05	----
28-203S	3/8"	0.66	0.68	0.07	----
28-204S	1/2"	0.81	0.87	0.12	----
28-205S	3/4"	0.92	1.06	0.24	----
28-206S	1"	1.00	1.31	0.38	----

121AS

LOCKNUT

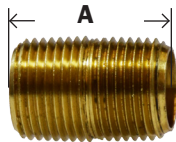
- Jam Nuts
- Straight pipe thread



Part #	Thread size NPSL	Hex	Thickness	Approx. Wt. Lbs.	List Price
28-123	1/8"	0.68	0.19	0.02	----
28-124	1/4"	0.87	0.25	0.04	----
28-125	3/8"	1.00	0.31	0.04	----
28-126	1/2"	1.125	0.25	0.04	----

210P 21102 111A 111B

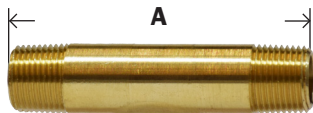
CLOSE NIPPLE



Part #	Thread size NPTF	A	Approx. Wt. Lbs.	List Price
28-131	1/8"	0.75	0.01	----
28-132	1/4"	0.88	0.02	----
28-133	3/8"	1.00	0.05	----
28-134	1/2"	1.12	0.06	----
28-135	3/4"	1.31	0.11	----

165 215PN 3326 112A 112B

LONG NIPPLE



- NOTE: For longer lengths and larger diameters, see our red brass nipples section, pg. 216-222



Part #	Thread size NPTF	A Length	Approx. Wt. Lbs.	List Price
28-140	1/8"	1.50	0.03	----
28-141	1/8"	2.00	0.04	----
28-142	1/8"	2.50	0.06	----
28-143	1/8"	3.00	0.06	----
28-475	1/8"	3.50	0.07	----
28-144	1/4"	1.50	0.03	----
28-145	1/4"	2.00	0.05	----
28-146	1/4"	2.50	0.08	----
28-147	1/4"	3.00	0.10	----
28-481	1/4"	3.50	0.12	----
28-148	3/8"	1.50	0.06	----
28-149	3/8"	2.00	0.10	----
28-150	3/8"	2.50	0.10	----
28-151	3/8"	3.00	0.13	----
28-487	3/8"	3.50	0.17	----
28-152	1/2"	1.50	0.08	----
28-153	1/2"	2.00	0.12	----
28-154	1/2"	2.50	0.16	----
28-155	1/2"	3.00	0.20	----
28-493	1/2"	3.50	0.24	----
28-136	3/4"	1.50	0.12	----
28-497	3/4"	2.00	0.18	----
28-498	3/4"	2.50	0.23	----
28-499	3/4"	3.00	0.28	----

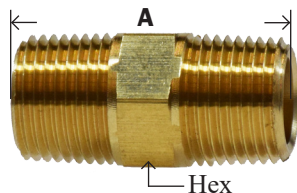
113B 113A 166 3327, 3328, 3329, 3330 3331 215PNL

PIPE

BRASS FITTINGS

HEX NIPPLE

SAE# 130137

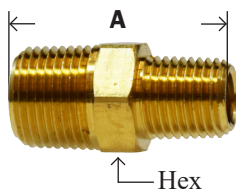


Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-211L	1/8"	0.91	0.43	0.02	----
28-211	1/8"	0.97	0.43	0.03	----
28-212L	1/4"	1.12	0.56	0.04	----
28-212	1/4"	1.38	0.56	0.06	----
28-213L	3/8"	1.25	0.68	0.07	----
28-213	3/8"	1.41	0.68	0.07	----
28-214L	1/2"	1.50	0.87	0.11	----
28-214	1/2"	1.81	0.87	0.17	----
28-215	3/4"	1.96	1.13	0.23	----
28-216	1"	2.30	1.37	0.43	----

216P 3325 379 122AH 122B

REDUCING HEX NIPPLE

SAE# 130137



Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-220L	1/4" x 1/8"	1.00	0.56	0.04	----
28-220	1/4" x 1/8"	1.19	0.56	0.04	----
28-221L	3/8" x 1/8"	1.11	0.68	0.06	----
28-221	3/8" x 1/8"	1.22	0.68	0.07	----
28-222L	3/8" x 1/4"	1.19	0.68	0.06	----
28-222	3/8" x 1/4"	1.41	0.68	0.07	----
28-223L	1/2" x 1/4"	1.34	0.87	0.09	----
28-223	1/2" x 1/4"	1.62	0.87	0.12	----
28-224L	1/2" x 3/8"	1.41	0.87	0.11	----
28-224	1/2" x 3/8"	1.62	0.87	0.12	----
28-225	3/4" x 1/2"	1.50	1.06	0.15	----

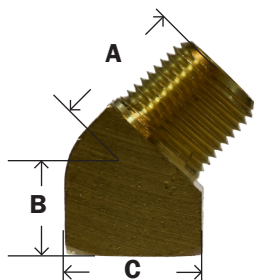


See page 420 for steel hydraulic pipe adapters

216P 3325 379 122AH 122B

45° STREET ELBOW

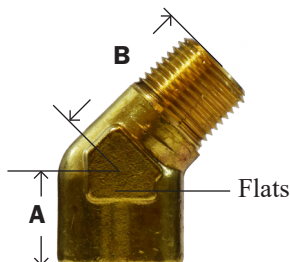
SAE# 130339



Part #	Thread size NPTF	B	A	C	Approx. Wt. Lbs.	List Price
28-230	1/8"	0.38	0.50	0.56	0.03	----
28-231	1/4"	0.56	0.72	0.68	0.09	----
28-232	3/8"	0.56	0.78	0.81	0.12	----
28-233	1/2"	0.75	1.00	1.00	0.20	----
28-234	3/4"	0.75	1.06	1.25	0.34	----

306 3350 2214P 224

45° FORGED STREET ELBOW



Part #	Thread size NPTF	A	B	Wrench flats	Approx. Wt. Lbs.	List Price
28-238	1/8"	0.63	0.81	0.56	0.05	----
28-239	1/4"	0.63	1.06	0.81	0.11	----
28-240	3/8"	0.72	1.06	0.93	0.17	----

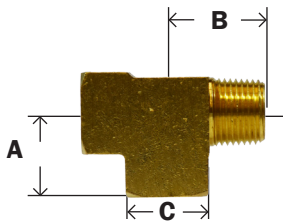
45E8 124B

BRASS FITTINGS

PIPE

STREET TEE/ SERVICE TEE/ MALE RUN TEE

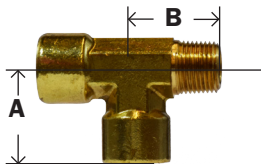
SAE# 130424



Part #	Thread size NPTF	A	B	C	Approx. Wt. Lbs.	List Price
28-245	1/8"	0.55	0.66	0.56	0.08	----
28-246	1/4"	0.78	0.91	0.68	0.17	----
28-247	3/8"	0.84	0.97	0.81	0.22	----
28-248	1/2"	1.09	1.25	1.00	0.40	----
28-249	3/4"	1.16	1.39	1.25	0.60	----

225 2225P 3750 326 225 127A

FORGED STREET TEE

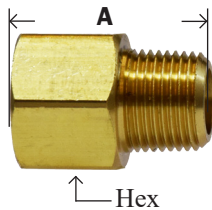


Part #	Thread size NPTF	A	B	Body Width	Approx. Wt. Lbs.	List Price
28-253	1/8"	0.56	0.75	0.50	0.05	----
28-254	1/4"	1.03	1.00	0.46	0.13	----
28-255	3/8"	1.19	1.09	0.68	0.24	----
28-256	1/2"	1.52	1.40	0.88	0.45	----
28-257	3/4"	1.34	1.73	1.25	0.65	----

107 T8 127B

EXTENDER ADAPTER

SAE# 130139

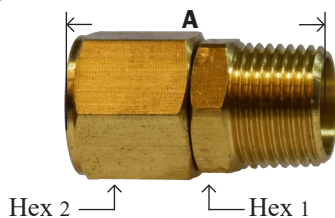


Part #	Thread size NPTF FxM	A	Hex	Approx. Wt. Lbs.	List Price
28-190L	1/8" x 1/8"	0.83	0.50	0.03	----
28-190	1/8" x 1/8"	0.88	0.56	0.04	----
28-191L	1/4" x 1/8"	0.94	0.62	0.04	----
28-191	1/4" x 1/8"	1.06	0.75	0.07	----
28-192L	1/4" x 1/4"	1.00	0.62	0.04	----
28-192	1/4" x 1/4"	1.25	0.75	0.07	----
28-198	3/8" x 1/8"	1.00	0.81	0.06	----
28-193L	3/8" x 1/4"	1.12	0.81	0.08	----
28-193	3/8" x 1/4"	1.25	0.87	0.09	----
28-194L	3/8" x 3/8"	1.24	0.81	0.10	----
28-194	3/8" x 3/8"	1.25	0.87	0.11	----
28-199	1/2" x 1/4"	1.46	1.06	0.08	----
28-195L	1/2" x 3/8"	1.19	0.93	0.09	----
28-195	1/2" x 3/8"	1.47	1.06	0.18	----
28-196	1/2" x 1/2"	1.66	1.06	0.12	----
28-207	3/4" x 3/8"	1.59	1.25	0.26	----
28-208	3/4" x 1/2"	1.69	1.37	0.14	----
28-208L	3/4" x 1/2"	1.22	1.25	0.13	----
28-209	3/4" x 3/4"	1.69	1.37	0.34	----

375 222P 3200 R1 120AH 120B

PIPE SWIVEL ADAPTER

*300 PSI all sizes



Part #	Thread size NPTF FxM	A	Hex 1	Hex 2	Approx. Wt. Lbs.	List Price
28-424	1/8"	1.10	0.43	0.50	0.05	----
28-425	1/4"	1.34	0.56	0.62	0.06	----
28-426	3/8"	1.36	0.68	0.75	0.08	----
28-427	1/2"	1.87	0.87	0.95	0.10	----

Male NPT x Female NPT

- 360° Turning
- Swivels



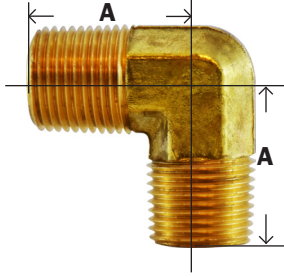
Part #	Size	List Price
320-061	1/4	----

344R 3183

PIPE

BRASS FITTINGS

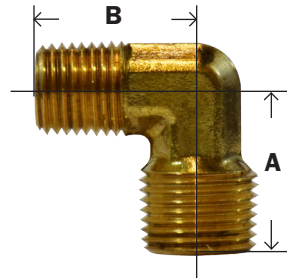
FORGED 90° MALE ELBOW



Part #	Thread size NPTF	A	Body Width	Approx. Wt. Lbs.	List Price
28-266	1/8"	0.79	0.38	0.04	----
28-267	1/4"	0.87	0.45	0.06	----
28-268	3/8"	1.00	0.59	0.12	----
28-269	1/2"	1.38	0.78	0.21	----

LE5 3455 116AMF

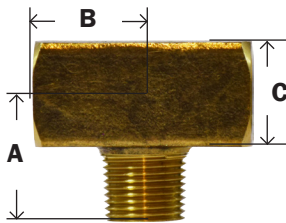
FORGED 90° MALE REDUCING ELBOW



Part #	Thread size NPTF	A	B	Body Width	Approx. Wt. Lbs.	List Price
28-274	1/4"x 1/8"	0.88	0.78	0.47	0.06	----
28-275	3/8" x 1/4"	0.90	0.90	0.46	0.06	----
28-276	1/2" x 3/8"	1.12	1.00	0.59	0.12	----

MALE BRANCH TEE

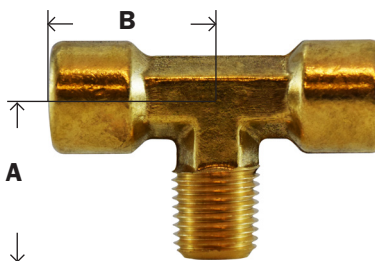
SAE# 130425



Part #	Thread size NPTF	A	B	C	Approx. Wt. Lbs.	List Price
28-281	1/8"	0.66	0.55	0.56	0.08	----
28-282	1/4"	0.91	0.78	0.68	0.15	----
28-283	3/8"	0.97	0.84	0.81	0.22	----
28-284	1/2"	1.25	1.09	1.00	0.40	----
28-285	3/4"	1.38	1.16	1.25	0.62	----

T9 X106 23601 3600 2224P 226 329 128

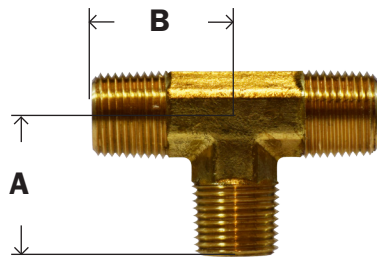
FORGED MALE BRANCH TEE



Part #	Thread size NPTF	A	B	Body Width	Approx. Wt. Lbs.	List Price
28-281F	1/8"	0.75	0.56	0.50	0.06	----
28-282F	1/4"	1.00	1.03	0.46	0.12	----

T9

FORGED ALL MALE TEE

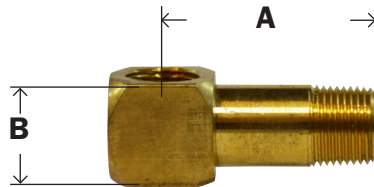


Part #	Thread size NPTF	A	B	Body Width	Approx. Wt. Lbs.	List Price
28-290	1/8"	0.75	0.75	0.43	0.06	----
28-291	1/4"	0.86	0.86	0.43	0.08	----
28-292	3/8"	1.09	1.09	0.60	0.16	----
28-293	1/2"	1.22	1.22	0.68	0.22	----
28-294	3/4"	1.43	1.43	0.87	0.38	----

T12 M101

LONG STREET ELLS

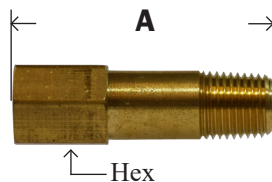
D.O.T. Approved



Part #	Thread size NPTF	A	B	Approx. Wt. Lbs.	List Price
28-440	1/8"	1-3/16"	0.50	0.06	----
28-441	1/8"	1-7/16"	0.50	0.06	----
28-442	1/8"	1-11/16"	0.50	0.06	----
28-443	1/8"	1-7/8"	0.50	0.16	----
28-328	1/4"	1-3/16"	0.75	0.12	----
28-329	1/4"	1-7/16"	0.75	0.14	----
28-330	1/4"	1-11/16"	0.75	0.15	----
28-331	1/4"	1-7/8"	0.62	0.09	----
28-332	1/4"	2-1/4"	0.75	0.17	----
28-333	3/8"	1-3/4"	0.87	0.22	----

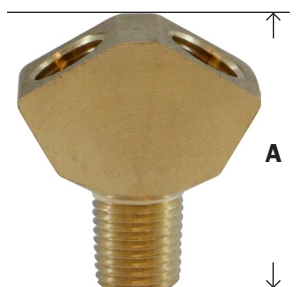
LONG EXTENSION ADAPTERS

D.O.T. Approved



Part #	Thread size NPTF	A	Hex	Approx. Wt. Lbs.	List Price
28-335	1/8"	1-1/4"	0.50	0.04	----
28-336	1/8"	1-3/4"	0.50	0.05	----
28-337	1/8"	3"	0.50	0.09	----
28-338	1/4"	1-9/16"	0.62	0.07	----
28-339	1/4"	1-13/16"	0.62	0.08	----
28-340	1/4"	2-1/16"	0.62	0.10	----

PIPE WYE FIP x MIP



Part #	Thread Size NPT	A	Approx. Wt. Lbs.	List Price
28-295	1/4"	1.56	.15	----

PIPE WYE FIP x FIP - NICKEL PLATED



Part #	Thread Size NPT	A	Approx. Wt. Lbs.	List Price
28-298	1/4	1.4	.12	----