

PIPE FITTINGS



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 547-550 for stainless steel

▪ see page 313 for steel fittings

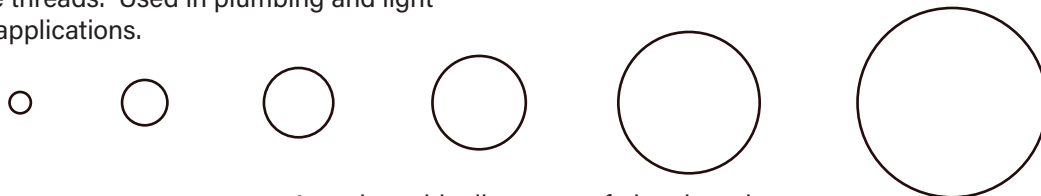
▪ see page 295-297 for plastic pipe fittings.

▪ Lead Free Fittings

see pages 157-160

▪ For Bronze & Larger Sizes

see pages 248-268



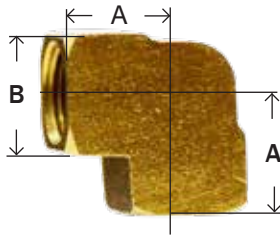
Actual outside diameters of pipe threads



Actual Male Thread Profiles

PIPE**BRASS FITTINGS****90° FEMALE ELBOW**

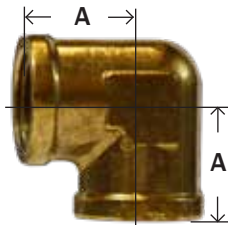
SAE# 130238



100

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28001	1/8"	0.55	0.56	0.09	----
28002	1/4"	0.78	0.68	0.13	----
28003	3/8"	0.84	0.81	0.16	----
28004	1/2"	1.09	1.00	0.34	----
28005	3/4"	1.16	1.25	0.60	----
28015B	3/8" x 1/4"	0.84	0.81	0.18	----
28053B	1/2" x 1/4"	1.09	1.00	0.37	----
28016B	1/2" x 3/8"	1.09	1.00	0.36	----

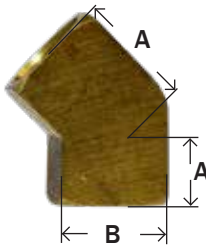
100 2200P 3500 302 200

90° FORGED FEMALE ELBOW

100F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28009	1/8"	0.57	0.50	0.04	----
28010	1/4"	0.70	0.68	0.10	----
28011	3/8"	0.81	0.81	0.12	----
28012	1/2"	1.00	1.00	0.23	----
28013	3/4"	1.13	1.25	0.42	----
28014	1/4" x 1/8"	0.72	0.65	0.12	----
28015	3/8" x 1/4"	0.81	0.81	0.15	----
28016	1/2" x 3/8"	1.00	1.00	0.28	----
28017	1"	1.42	1.50	0.75	----

1200P E7 100AF 100B

45° FEMALE ELBOW

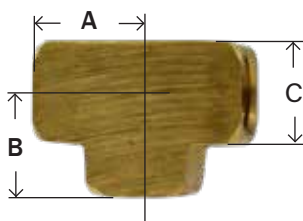
10045

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28018	1/8"	0.45	0.56	0.06	----
28019	1/4"	0.66	0.68	0.12	----
28020	3/8"	0.69	0.81	0.16	----
28021B	1/2"	0.94	1.00	0.25	----

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

UNION TEE

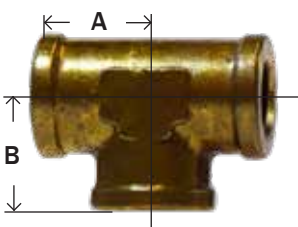
SAE# 130438



101

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28022	1/16"	0.55	0.55	0.58	0.11	----
28024	1/8"	0.55	0.55	0.56	0.08	----
28025	1/4"	0.78	0.78	0.68	0.17	----
28026	3/8"	0.84	0.84	0.81	0.22	----
28027	1/2"	1.09	1.09	1.00	0.43	----
28028	3/4"	1.16	1.16	1.25	0.64	----

311 101A 322 2203P 3700 203

UNION FORGED TEE

101F

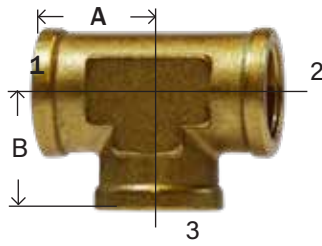
PART #	THREAD SIZE NPTF	A & B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28032	1/8"	0.56	0.50	0.06	----
28033	1/4"	0.71	0.68	0.13	----
28034	3/8"	0.81	0.81	0.16	----
28035	1/2"	1.00	1.00	0.27	----
28036	3/4"	1.16	1.25	0.53	----
28023	1"	1.42	1.50	.924	----

1203P LT7 101AF 101B

PIPE

BRASS FITTINGS

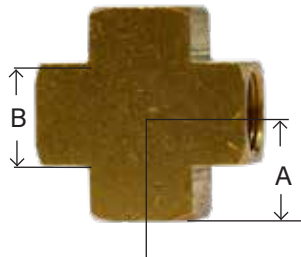
REDUCING FORGED TEES



101FR

PART #	1 NPT	2 NPT	3 NPT	A & B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28029	1/8"	1/8"	1/4"	0.72	0.69	0.16	----
28030	1/4"	1/4"	1/8"	0.72	0.69	0.14	----
28031	1/4"	1/4"	3/8"	0.81	0.81	0.21	----
28038	3/8"	1/4"	3/8"	0.81	0.81	0.18	----
28039	3/8"	3/8"	1/4"	0.81	0.81	0.18	----
28046	1/2"	1/2"	3/8"	1.00	1.00	0.30	----
28047	3/4"	1/2"	3/4"	1.20	1.25	0.59	----
28048	3/4"	3/4"	1/2"	1.16	1.25	0.59	----

CROSS

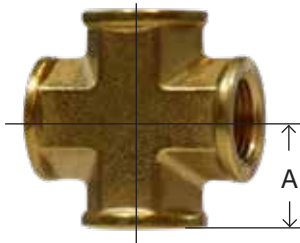


102

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28041	1/8"	0.55	0.56	0.10	----
28042	1/4"	0.78	0.68	0.21	----
28043	3/8"	0.84	0.81	0.25	----
28044	1/2"	1.09	1.00	0.51	----
28045	3/4"	1.16	1.25	0.75	----

2205P 3950 228 102A 102BE

FORGED CROSS



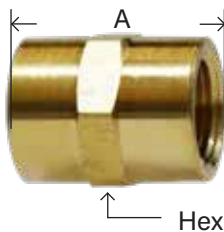
102F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28049	1/8"	0.56	0.50	0.06	----
28050	1/4"	0.72	0.69	0.15	----
28051	3/8"	0.81	0.81	0.18	----
28052	1/2"	1.00	1.00	0.34	----

C7 105 102AF 102B

COUPLING

SAE# 130138



103

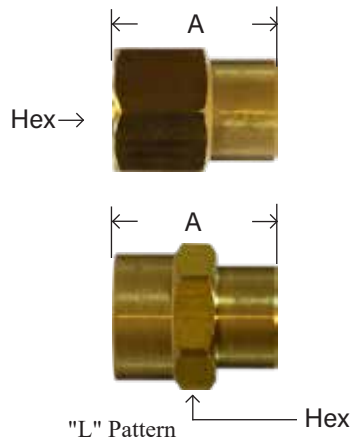
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28057	1/16"	0.75	0.44	0.02	----
28058L	1/8"	0.75	0.50	0.02	----
28058	1/8"	0.75	0.56	0.03	----
28059L	1/4"	0.88	0.63	0.03	----
28059	1/4"	1.12	0.75	0.09	----
28060L	3/8"	1.00	0.81	0.06	----
28060	3/8"	1.12	0.87	0.10	----
28061L	1/2"	1.19	0.93	0.09	----
28061	1/2"	1.50	1.06	0.19	----
28062L	3/4"	1.19	1.25	0.18	----
28062	3/4"	1.53	1.25	0.24	----
28063	1"	1.89	1.50	.357	----

207P 371 3300 103AH 103B

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

PIPE**BRASS FITTINGS****REDUCING COUPLING**

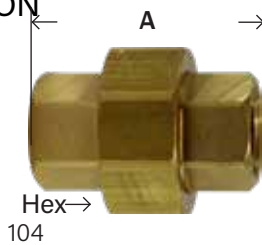
SAE# 130138



119

*Not to SAE specs

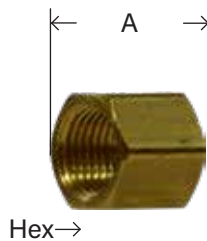
377 3300 208P 108 119B 119AH

UNION

104

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28067	1/8"	1.25	0.94	0.13	----
28068	1/4"	1.31	1.06	0.18	----
28069	3/8"	1.75	1.25	0.33	----
28070	1/2"	1.79	1.56	0.50	----
28071	3/4"	1.96	1.68	0.47	----

3250 212P 104A 104B

CAP

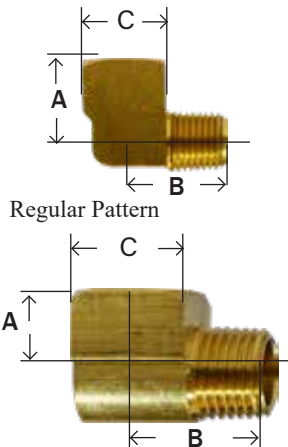
108

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28075	1/8"	0.47	0.56	0.03	----
28076	1/4"	0.60	0.68	0.04	----
28077	3/8"	0.69	0.81	0.06	----
28078	1/2"	0.78	0.93	0.08	----
28079	3/4"	0.94	1.25	0.16	----
28080	1"	1.13	1.50	0.23	----

3129 213P 23129 108A 108B

90° STREET ELBOW

SAE# 130239



116

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28161	1/16"	0.69	0.60	0.47	0.04	----
28156	1/8"	0.48	0.66	0.56	0.05	----
28156S	1/8" short	0.34	0.57	0.50	0.03	----
28157	1/4"	0.72	0.91	0.735	0.09	----
28157S	1/4" short	0.45	0.78	0.68	0.07	----
28158	3/8"	0.78	0.97	0.81	0.16	----
28159	1/2"	1.03	1.25	1.00	0.33	----
28160	3/4"	1.12	1.38	1.25	0.52	----

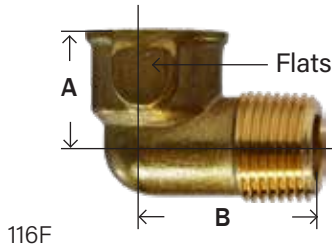
2202P 304 115 202 3400 116A

"S" = Short Pattern

PIPE

BRASS FITTINGS

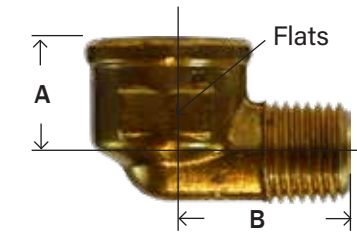
FORGED 90° STREET ELBOW



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28165	1/8"	0.61	0.85	0.62	0.06	----
28166	1/4"	0.50	0.86	0.72	0.08	----
28167	3/8"	0.70	1.00	0.88	0.10	----
28168	1/2"	0.96	1.43	1.00	0.20	----
28169	3/4"	0.90	1.40	1.25	0.25	----

5E8 1202P 116AF 116B

FORGED REDUCING 90° STREET ELBOW



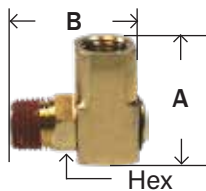
128

*Barstock

PART #	THREAD SIZE NPTF FXM	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28259*	1/8" x 1/16"					----
28260	1/8" x 1/4"	0.50	0.87	0.71	0.08	----
28261B*	1/4" x 1/8"	0.53	0.72	0.69	0.07	----
28261	1/4" x 1/8"	0.50	0.81	0.72	0.06	----
28262	1/4" x 3/8"	0.93	1.06	0.59	0.12	----
28263	3/8" x 1/4"	0.58	0.94	0.81	0.07	----
28264	3/8" x 1/2"	0.97	1.36	1.00	0.28	----
28265	1/2" x 3/8"	0.96	1.37	1.00	0.22	----
28265B*	1/2" x 3/8"	1.03	1.11	1.00	0.24	----

PIPE SWIVEL 90° STREET ELBOW

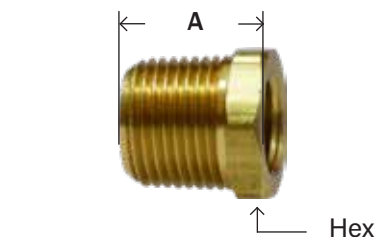
• Burst Pressure 1,200 PSI • Working Pressure 300 PSI



PART #	MIP XFIP THREAD SIZE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
28430	1/4"	1.18	1.25	.625	0.22	----

HEX BUSHING

SAE# 130140



110

PART #	THREAD SIZE NPTF MXF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28101	1/8" x 1/16"				
28102L	1/4" x 1/8"	0.62	0.56	0.02	----
28102	1/4" x 1/8"	0.75	0.56	0.04	----
28103	3/8" x 1/8"	0.75	0.68	0.05	----
28104L	3/8" x 1/4"	0.69	0.68	0.03	----
28104	3/8" x 1/4"	0.75	0.75	0.05	----
28105L	1/2" x 1/8"	0.81	0.81	0.08	----
28105	1/2" x 1/8"	1.00	0.87	0.10	----
28106L	1/2" x 1/4"	0.81	0.81	0.08	----
28106	1/2" x 1/4"	1.00	0.87	0.11	----
28107L	1/2" x 3/8"	0.81	0.81	0.05	----
28107	1/2" x 3/8"	1.00	0.87	0.10	----
28108	3/4" x 1/8"	0.94	1.06	0.20	----
28109L	3/4" x 1/4"	0.94	1.06	0.18	----
28110L	3/4" x 3/8"	0.94	1.06	0.15	----
28111L	3/4" x 1/2"	0.94	1.06	0.11	----
28111	3/4" x 1/2"	1.00	1.12	0.14	----
28091	1" x 1/8"	1.15	1.37	0.29	----
28112	1" x 1/4"	1.15	1.37	0.32	----
28113	1" x 3/8"	1.12	1.37	0.30	----
28114	1" x 1/2"	1.31	1.44	0.29	----
28115	1" x 3/4"	1.31	1.37	0.20	----

373 3220 209P 110A 110B

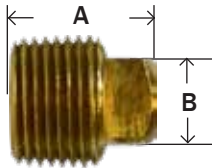
PIPE**BRASS FITTINGS****FACE BUSHING**

110F

PART #	THREAD SIZE NPTF MXF	A	APPROX. WT. LBS.	LIST PRICE
28121	1/4" x 1/8"	0.45	0.01	----
28122	3/8" x 1/8"	0.50	0.03	----
28116	3/8" x 1/4"	0.50	0.02	----
28090	1/2" x 1/8"	0.56	0.06	----
28128	1/2" x 1/4"	0.56	0.05	----
28117	1/2" x 3/8"	0.56	0.03	----
28129	3/4" x 1/4"	0.62	0.11	----
28130	3/4" x 3/8"	0.62	0.08	----
28118	3/4" x 1/2"	0.64	0.03	----
28120	1" x 1/2"	0.75	0.11	----
28119	1" x 3/4"	0.77	0.10	----

SQUARE HEAD PLUG

1/8 - 1/2 Solid



109

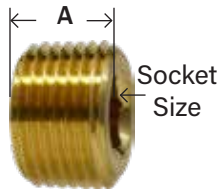
PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28084	1/8"	0.58	0.27	0.02	----
28085	1/4"	0.80	0.37	0.03	----
28086	3/8"	0.80	0.43	0.06	----
28087	1/2"	1.07	0.55	0.13	----
28088**	3/4"	1.09	0.61	0.20	----
28089**	1"	1.24	0.81	0.35	----

** Cored

3151 211P 109A 109B

COUNTERSUNK HEX PLUG

3/4" taper thread



109AL

PART #	THREAD SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	LIST PRICE
28092	1/16"	0.30	0.12	0.01	----
28093	1/8"	0.30	0.18	0.01	----
28094	1/4"	0.45	0.26	0.02	----
28095	3/8"	0.45	0.31	0.03	----
28096	1/2"	0.61	0.39	0.05	----

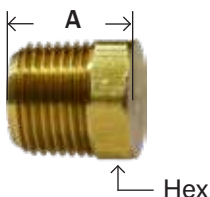
3153 219P 109CS 118

SLOTTED-HEAD PLUG

117

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	LIST PRICE
28174	1/8"	0.31	0.01	----
28175	1/4"	0.42	0.02	----
28176	3/8"	0.45	0.05	----

220P 3150 117A 117B

CORED HEX PLUGS

121

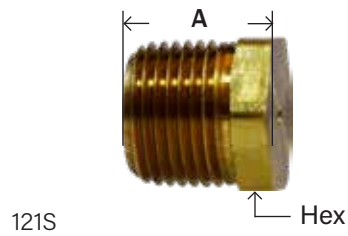
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28200	1/16"	0.48	0.38	0.01	----
28201	1/8"	0.55	0.43	0.01	----
28202	1/4"	0.62	0.56	0.02	----
28203	3/8"	0.72	0.68	0.06	----
28204	1/2"	0.81	0.87	0.09	----
28205	3/4"	0.94	1.06	0.16	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE

BRASS FITTINGS

SOLID HEX HEAD PLUGS



PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28201S	1/8"	0.55	0.43	0.02	----
28202S	1/4"	0.75	0.56	0.05	----
28203S	3/8"	0.66	0.68	0.07	----
28204S	1/2"	0.81	0.87	0.12	----
28205S	3/4"	0.92	1.06	0.24	----

121AS

LOCKNUT

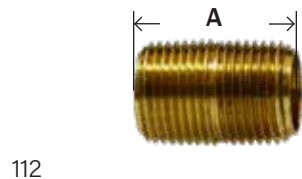
- Jam Nuts
- Straight pipe thread



PART #	THREAD SIZE NPSL	HEX	THICKNESS	APPROX. WT. LBS.	LIST PRICE
28123	1/8"	0.68	0.19	0.02	----
28124	1/4"	0.87	0.25	0.04	----
28125	3/8"	1.00	0.31	0.04	----
28126	1/2"	1.125	0.25	0.04	----
28127	3/4"	1.38	0.38	0.09	----

210P 21102 111A 111B

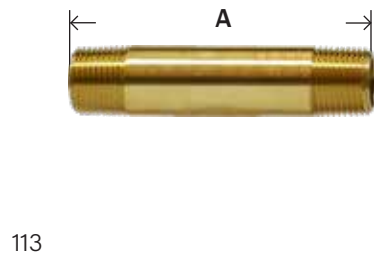
CLOSE NIPPLE



PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	LIST PRICE
28131	1/8"	0.75	0.01	----
28132	1/4"	0.88	0.02	----
28133	3/8"	1.00	0.05	----
28134	1/2"	1.12	0.06	----
28135	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.

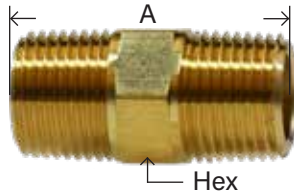


PART #	THREAD SIZE NPTF	A LENGTH	APPROX. WT. LBS.	LIST PRICE
28140	1/8"	1.50	0.03	----
28141	1/8"	2.00	0.04	----
28142	1/8"	2.50	0.06	----
28143	1/8"	3.00	0.06	----
28475	1/8"	3.50	0.07	----
28144	1/4"	1.50	0.03	----
28145	1/4"	2.00	0.05	----
28146	1/4"	2.50	0.08	----
28147	1/4"	3.00	0.10	----
28481	1/4"	3.50	0.12	----
28148	3/8"	1.50	0.06	----
28149	3/8"	2.00	0.10	----
28150	3/8"	2.50	0.10	----
28151	3/8"	3.00	0.13	----
28487	3/8"	3.50	0.17	----
28152	1/2"	1.50	0.08	----
28153	1/2"	2.00	0.12	----
28154	1/2"	2.50	0.16	----
28155	1/2"	3.00	0.20	----
28493	1/2"	3.50	0.24	----
28136	3/4"	1.50	0.12	----
28497	3/4"	2.00	0.18	----
28498	3/4"	2.50	0.23	----
28499	3/4"	3.00	0.28	----

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

PIPE**BRASS FITTINGS****HEX NIPPLE**

SAE# 130137



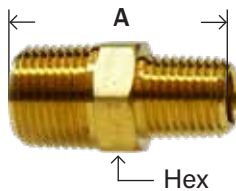
122

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28210	1/16"	0.97	0.38	0.02	----
28211L	1/8"	0.91	0.43	0.02	----
28211	1/8"	0.97	0.43	0.03	----
28212L	1/4"	1.12	0.56	0.04	----
28212	1/4"	1.38	0.56	0.06	----
28213L	3/8"	1.25	0.68	0.07	----
28213	3/8"	1.41	0.68	0.07	----
28214L	1/2"	1.50	0.87	0.11	----
28214	1/2"	1.81	0.87	0.17	----
28215L	3/4"	1.55	1.07	0.17	----
28215	3/4"	1.96	1.13	0.23	----
28216L	1"	1.75	1.39	0.22	----

216P 3325 379 122AH 122B

REDUCING HEX NIPPLE

SAE# 130137



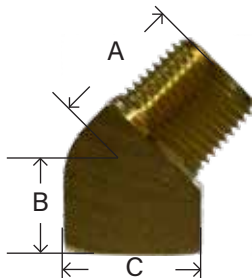
123

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28218	1/8" x 1/16"	1.00	0.56	0.05	----
28220L	1/4" x 1/8"	1.00	0.56	0.04	----
28220	1/4" x 1/8"	1.19	0.56	0.04	----
28221L	3/8" x 1/8"	1.11	0.68	0.06	----
28221	3/8" x 1/8"	1.22	0.68	0.07	----
28222L	3/8" x 1/4"	1.19	0.68	0.06	----
28222	3/8" x 1/4"	1.41	0.68	0.07	----
28223L	1/2" x 1/4"	1.34	0.87	0.09	----
28223	1/2" x 1/4"	1.62	0.87	0.12	----
28224L	1/2" x 3/8"	1.41	0.87	0.11	----
28224	1/2" x 3/8"	1.62	0.87	0.12	----
28225L	3/4" x 1/2"	1.81	1.06	0.19	----
28225	3/4" x 1/2"	1.50	1.06	0.15	----
28227	1" x 3/4"	2.31	1.38	0.38	----

216P 3325 379 122AH 122B

45° STREET ELBOW

SAE# 130339



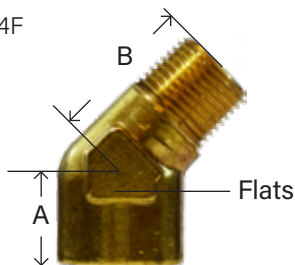
124

PART #	THREAD SIZE NPTF	B	A	C	APPROX. WT. LBS.	LIST PRICE
28230	1/8"	0.38	0.50	0.56	0.03	----
28231	1/4"	0.56	0.72	0.68	0.09	----
28232	3/8"	0.56	0.78	0.81	0.12	----
28233	1/2"	0.75	1.00	1.00	0.20	----
28234	3/4"	0.75	1.06	1.25	0.34	----

306 3350 2214P 224

45° FORGED STREET ELBOW

124F



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28238	1/8"	0.63	0.81	0.56	0.05	----
28239	1/4"	0.63	1.06	0.81	0.11	----
28240	3/8"	0.72	1.06	0.93	0.17	----

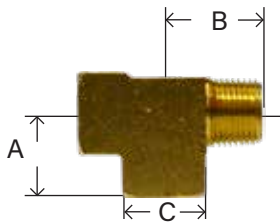
45E8 124B

PIPE

BRASS FITTINGS

STREET TEE/ SERVICE TEE/ MALE RUN TEE

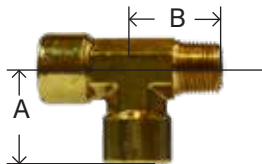
SAE# 130424



127

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28245	1/8"	0.55	0.66	0.56	0.08	----
28246	1/4"	0.78	0.91	0.68	0.17	----
28247	3/8"	0.84	0.97	0.81	0.22	----
28248	1/2"	1.09	1.25	1.00	0.40	----
28249	3/4"	1.16	1.39	1.25	0.60	----

FORGED STREET TEE



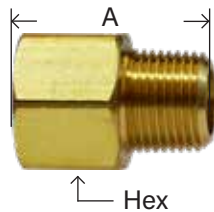
127F

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28253	1/8"	0.56	0.75	0.50	0.05	----
28254	1/4"	1.03	1.00	0.46	0.13	----
28255	3/8"	1.19	1.09	0.68	0.24	----
28256	1/2"	1.52	1.40	0.88	0.45	----

107 T8 127B

EXTENDER ADAPTER

SAE# 130139



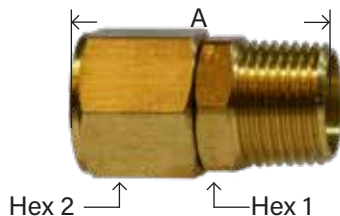
120

PART #	THREAD SIZE NPTF FXM	A	HEX	APPROX. WT. LBS.	LIST PRICE
28190L	1/8" x 1/8"	0.83	0.50	0.03	----
28190	1/8" x 1/8"	0.88	0.56	0.04	----
28191L	1/4" x 1/8"	0.94	0.62	0.04	----
28191	1/4" x 1/8"	1.06	0.75	0.07	----
28192L	1/4" x 1/4"	1.00	0.62	0.04	----
28192	1/4" x 1/4"	1.25	0.75	0.07	----
28198	3/8" x 1/8"	1.00	0.81	0.06	----
28193L	3/8" x 1/4"	1.12	0.81	0.08	----
28193	3/8" x 1/4"	1.25	0.87	0.09	----
28194L	3/8" x 3/8"	1.24	0.81	0.10	----
28194	3/8" x 3/8"	1.25	0.87	0.11	----
28197	1/2" x 1/8"	1.09	0.94	0.07	----
28199	1/2" x 1/4"	1.46	1.06	0.08	----
28195L	1/2" x 3/8"	1.19	0.93	0.09	----
28195	1/2" x 3/8"	1.47	1.06	0.18	----
28196L	1/2" x 1/2"	1.25	0.94	0.10	----
28196	1/2" x 1/2"	1.66	1.06	0.12	----
28207	3/4" x 3/8"	1.59	1.25	0.26	----
28208	3/4" x 1/2"	1.69	1.37	0.14	----
28208L	3/4" x 1/2"	1.22	1.25	0.13	----
28209	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
28424	1/8"	1.10	0.43	0.50	0.05	----
28425	1/4"	1.34	0.56	0.62	0.06	----
28426	3/8"	1.36	0.68	0.75	0.08	----
28427	1/2"	1.87	0.87	0.95	0.10	----

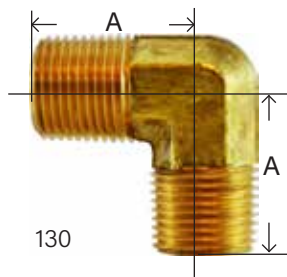
MALE NPT X FEMALE NPT

- 360° Turning
- Swivels



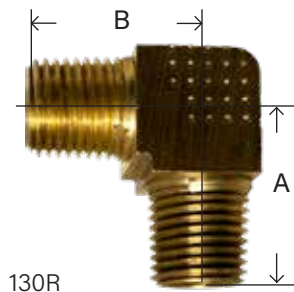
PART #	SIZE	LIST PRICE
320061	1/4	----

344R 3183

PIPE**BRASS FITTINGS****FORGED 90° MALE ELBOW**

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28266	1/8"	0.79	0.38	0.04	----
28267	1/4"	0.87	0.45	0.06	----
28268	3/8"	1.06	0.59	0.12	----
28269	1/2"	1.38	0.78	0.21	----

LE5 3455 116AMF

BARSTOCK 90° MALE ELBOW

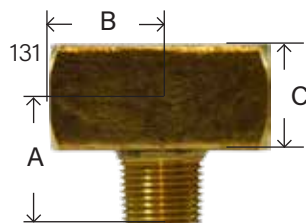
PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28266B	1/8"	0.69	0.56	0.08	----
28267B	1/4"	0.95	0.59	0.09	----
28268B	3/8"	1.01	0.71	0.15	----
28269B	1/2"	1.40	1.00	0.38	----
28270B	3/4"	1.50	1.25	0.55	----
28276B	1/2" x 3/8"	1.12	1.00	0.35	----

FORGED 90° MALE REDUCING ELBOW

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28274	1/4" x 1/8"	0.88	0.78	0.47	0.06	----
28275	3/8" x 1/4"	0.90	0.90	0.46	0.06	----
28276	1/2" x 3/8"	1.12	1.00	0.59	0.12	----

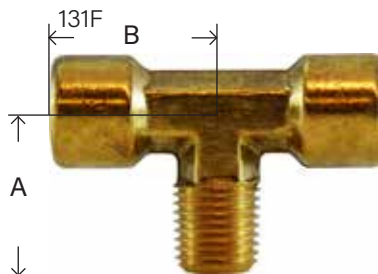
MALE BRANCH TEE

SAE# 130425



PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28281	1/8"	0.66	0.55	0.56	0.08	----
28282	1/4"	0.91	0.78	0.68	0.15	----
28283	3/8"	0.97	0.84	0.81	0.22	----
28284	1/2"	1.25	1.09	1.00	0.40	----
28285	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
28281F	1/8"	0.75	0.56	0.50	0.06	----
28282F	1/4"	1.00	1.03	0.46	0.12	----

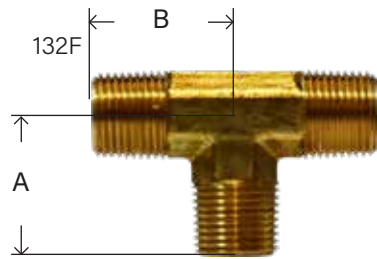
T9

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE

BRASS FITTINGS

FORGED ALL MALE TEE

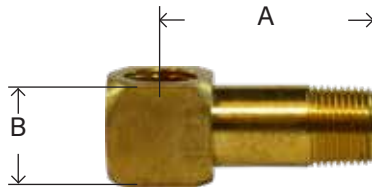


PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28290	1/8"	0.75	0.75	0.43	0.06	----
28291	1/4"	0.86	0.86	0.43	0.08	----
28292	3/8"	1.09	1.09	0.60	0.16	----
28293	1/2"	1.22	1.22	0.68	0.22	----
28294	3/4"	1.43	1.43	0.87	0.38	----

T12 M101

LONG STREET ELLS

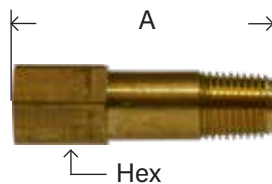
D.O.T. Approved



PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28440	1/8"	1-3/16"	0.50	0.06	----
28441	1/8"	1-7/16"	0.50	0.06	----
28442	1/8"	1-11/16"	0.50	0.06	----
28443	1/8"	1-7/8"	0.50	0.16	----
28328	1/4"	1-3/16"	0.75	0.12	----
28329	1/4"	1-7/16"	0.75	0.14	----
28330	1/4"	1-11/16"	0.75	0.15	----
28331	1/4"	1-7/8"	0.62	0.09	----
28332	1/4"	2-1/4"	0.75	0.17	----
28333	3/8"	1-3/4"	0.87	0.22	----

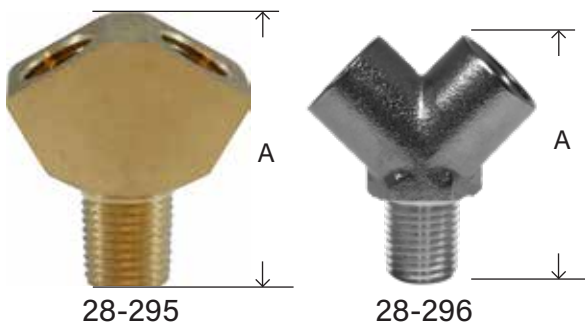
LONG EXTENSION ADAPTERS

D.O.T. Approved



PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28335	1/8"	1-1/4"	0.50	0.04	----
28336	1/8"	1-3/4"	0.50	0.05	----
28337	1/8"	3"	0.50	0.09	----
28338	1/4"	1-9/16"	0.62	0.07	----
28339	1/4"	1-13/16"	0.62	0.08	----
28340	1/4"	2-1/16"	0.62	0.10	----

PIPE WYE FIP X MIP



PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	LIST PRICE
28295	1/4"	1.56	.15	----
28296	1/4 N/P	1.4	.12	----

PIPE WYE FIP X FIP - NICKEL PLATED



PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	LIST PRICE
28298	1/4	1.4	.12	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

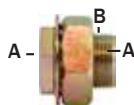
BRASS

BULKHEAD FITTINGS

BRASS FITTINGS

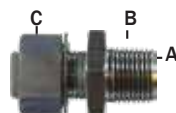
Part #	Terminal Bolts/ Frame			Length (in.)	List
	A	B	C		

STEEL BULKHEAD FITTINGS

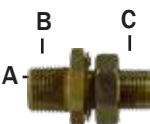


28306	1/4-18 NPTF	3/4 - 16 UNS		0.94	----
28307	1/4-18 NPTF	3/4 - 16 UNS		1.50	----
28308	3/8-18 NPTF	1 - 14 UNS		1.31	----

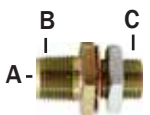
FEMALE PIPE X MALE PIPE



28309	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.16	----
28310	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.53	----

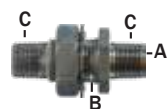


28345	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2-5/32	----
-------	-------------	--------------	-------------	--------	------



FEMALE PIPE X MALE PIPE

28325	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	1-11/16	----
-------	-------------	--------------	-------------	---------	------



28312	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2.94	----
28320	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	3-15/16	----

STAINLESS STEEL BULKHEAD FITTINGS

- Temperature range: -20F° - 360F°
- Working pressure: 1450 - 2175PSI

BULKHEAD FITTINGS - STAINLESS STEEL 316L NPT (1/8-1/2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH	LIST PRICE
28300SS	1/8"	0.701	0.866	0.748	----
28301SS	1/4"	0.858	1.063	0.748	----
28303SS	3/8"	1.055	1.260	1.102	----
28304SS	1/2"	1.173	1.417	1.378	----

BULKHEAD FITTINGS - STAINLESS STEEL 316 NPT (3/4-2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH	LIST PRICE
63214	3/4"	1-5/8"	2-15/32"	1-13/16"	----
63215	1"	2-1/4"	3-1/16"	2-7/8"	----
63216	1-1/4"	2-1/4"	3-1/16"	2-3/8"	----
63217	1-1/2"	3"	4-1/4"	2-5/8"	----
63218	2"	3"	4-1/4"	2-5/8"	----

HOSE BARB

BRASS FITTINGS

HOSE BARB FITTINGS



• Temperature and Working Pressure Ranges

From -40°F to + 160°F at 150 PSI maximum.

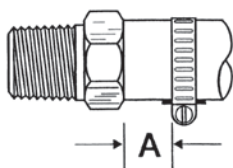
• Tolerance

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

Note: These fittings are intended for use with hose clamp, similar type clamp or a crimped ferrule.

• Assembly Instructions

- 1- Cut hose cleanly and squarely to length.
- 2- Slide clamp on hose.
- 3- Lubricate hose. Push hose on fitting until hose bottoms against stop ring or hex.
- 4- Position hose clamp as shown below and secure with a screwdriver or wrench. Maintain "A" dimension noted below for proper clamp positioning.



- For Lead Free AB1953 Compliant Fittings see pages 161

Other Barbs available



See page 334-347 for plastic hose barb fittings



See page 27-28 for stainless steel hose barbs



See page 358 for King Nipples

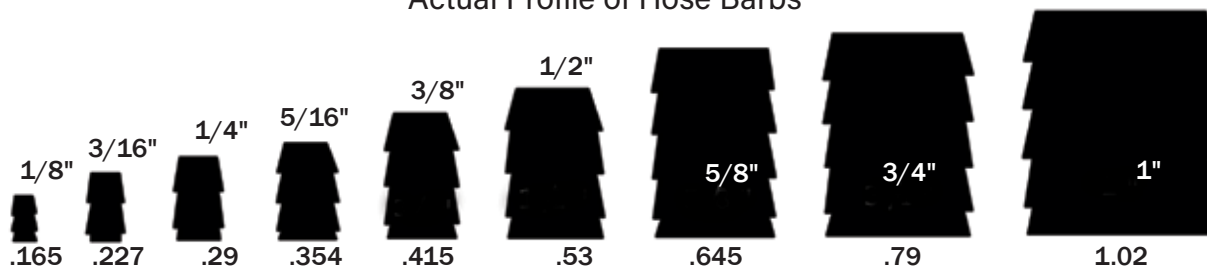


Stainless Steel hose barbs for beverage service available -

See beverage fitting section, pg. 28-29

Hose Size	A
3/16"	1/4"
1/4"	1/4"
5/16"	1/4"
3/8"	1/8"
1/2"	1/8"
5/8"	1/8"
3/4"	1/8"

Actual Profile of Hose Barbs

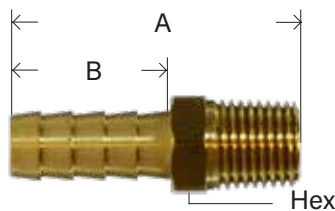


HOSE BARB

BRASS FITTINGS

RIGID MALE ADAPTER

- These are not Lead Free



29
129

* See page 27 for stainless steel.

See page 28 for beverage #303 stainless fittings

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32950	1/16" x 10/32"	0.90	0.45	0.38	0.01	----
32951	1/16" x 1/16"	0.91	0.48	0.38	0.01	----
32912	1/8" x 10/32"	0.92	0.48	0.38	0.01	----
32300	1/8" x 1/16"	0.93	0.48	0.38	0.01	----
32001 *	1/8" x 1/8"	1.19	0.69	0.43	0.02	----
32027	1/8" x 1/4"	1.16	0.46	0.56	0.02	----
32952	3/16" x 1/16"	1.20	0.75	0.38	0.02	----
32002 *	3/16" x 1/8"	1.19	0.75	0.43	0.02	----
32003 *	3/16" x 1/4"	1.37	0.69	0.56	0.04	----
32953	3/16" x 3/8"	1.44	0.69	0.68	0.04	----
32301	1/4" x 1/16"	1.44	0.88	0.43	0.02	----
32004 *	1/4" x 1/8"	1.47	0.97	0.43	0.02	----
32005 *	1/4" x 1/4"	1.72	0.97	0.56	0.04	----
32006 *	1/4" x 3/8"	1.72	0.97	0.68	0.05	----
32007	1/4" x 1/2"	1.72	0.81	0.87	0.10	----
32954	1/4" x 3/4"	1.86	0.96	1.06	0.15	----
32008 *	5/16" x 1/8"	1.47	0.97	0.43	0.02	----
32009 *	5/16" x 1/4"	1.72	0.97	0.56	0.04	----
32010 *	5/16" x 3/8"	1.76	0.97	0.68	0.06	----
32011 *	3/8" x 1/8"	1.53	0.97	0.56	0.03	----
32012 *	3/8" x 1/4"	1.75	0.97	0.56	0.05	----
32013 *	3/8" x 3/8"	1.72	0.96	0.68	0.06	----
32014 *	3/8" x 1/2"	1.87	0.97	0.87	0.09	----
32026 *	3/8" x 3/4"	1.97	0.97	1.06	0.16	----
32956	7/16" x 1/4"	1.75	0.97	0.56	0.05	----
32957	7/16" x 3/8"	1.73	0.97	0.70	0.07	----
32958	7/16" x 1/2"	1.87	0.97	0.88	0.10	----
32302	1/2" x 1/8"	1.57	0.95	0.56	0.06	----
32015 *	1/2" x 1/4"	1.72	0.97	0.56	0.04	----
32016 *	1/2" x 3/8"	1.76	0.97	0.68	0.07	----
32017 *	1/2" x 1/2"	1.87	0.96	0.87	0.11	----
32018 *	1/2" x 3/4"	1.94	0.97	1.06	0.16	----
32303	1/2" x 1"	2.31	0.99	1.37	0.33	----
32304	5/8" x 1/4"	1.67	0.92	0.68	0.06	----
32019 *	5/8" x 3/8"	1.76	0.97	0.68	0.08	----
32020 *	5/8" x 1/2"	1.87	0.96	0.87	0.11	----
32021 *	5/8" x 3/4"	1.87	0.96	1.06	0.14	----
32305	5/8" x 1"	2.31	0.96	1.37	0.36	----
32915	3/4" x 1/4"	1.64	0.87	0.81	0.11	----
32306	3/4" x 3/8"	1.65	0.87	0.81	0.12	----
32022 *	3/4" x 1/2"	1.87	0.96	0.87	0.14	----
32023 *	3/4" x 3/4"	1.87	0.96	1.06	0.15	----
32316	3/4" x 1"	2.55	1.15	1.37	0.38	----
32307	1" x 1/2"	1.80	0.87	1.06	0.18	----
32024 *	1" x 3/4"	2.19	1.19	1.06	0.32	----
32025 *	1" x 1"	2.48	1.19	1.37	0.39	----
32029	1-1/4" x 3/4"	2.37	1.19	1.37	0.35	----
32028	1-1/4" x 1"	2.55	1.19	1.37	0.46	----

4244 PGH 101 102 201A 125HBL 105B-1 KF-PS MPB

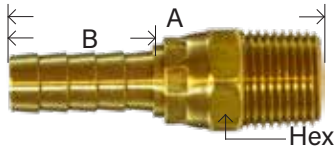
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

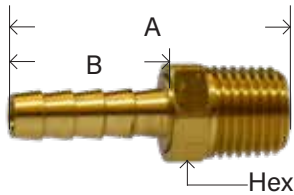
HOSE BARB**BRASS FITTINGS****BRASS RIGID MALE BSPT BARB ADAPTER**

29SWV
29MS

PART #	HOSE I.D. X MALE BSPT	LIST PRICE
32450	1/4" x 1/8"	----
32451	1/4" x 1/4"	----
32452	3/8" x 1/4"	----
32453	3/8" x 3/8"	----
32454	3/8" x 1/2"	----
32455	1/2" x 3/8"	----
32456	1/2" x 1/2"	----
32457	3/4" x 3/4"	----
32458	1" x 1"	----

SWIVEL MALE ADAPTER

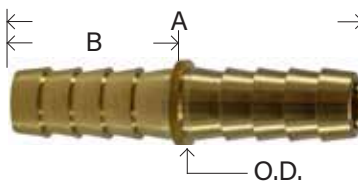
Rotation 360°



PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32329	3/16" x 1/8"	2.00	0.78	0.56	0.06	----
32331	3/16" x 1/4"	1.95	0.78	0.56	0.06	----
32332	1/4" x 1/8"	2.19	0.97	0.56	0.06	----
32349	1/4" x 1/4"	2.12	0.97	0.56	0.06	----
32351	3/8" x 1/8"	2.12	0.97	0.56	0.07	----
32201	3/8" x 1/4"	2.12	0.97	0.56	0.07	----
32360	3/8" x 3/8"	2.12	0.97	0.69	0.08	----
32355	1/2" x 3/8"	2.12	0.97	0.68	0.10	----
32356	1/2" x 1/2"	2.33	0.97	0.87	0.14	----
32357	3/4" x 3/4"	2.33	0.97	1.06	0.20	----
32386	1" x 1"	2.88	1.19	1.38	0.40	----

SMS 103

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32200	1/4" x 1/4"	1.65	.89	0.56	0.04	----
32202	3/8" x 3/8"	1.75	1.00	0.68	0.08	----

MENDER/ SPLICER

29S
129S

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	LIST PRICE
32091 *	1/8"	0.98	0.45	0.31	0.01	----
32092	3/16"	1.62	0.77	0.36	0.02	----
32093 *	1/4"	2.00	0.96	0.37	0.02	----
32079 *	1/4" x 1/8"	1.50	0.97	0.37	0.02	----
32094 *	5/16"	2.00	0.96	0.39	0.02	----
32090 *	5/16" x 1/4"	2.00	0.97	0.50	0.03	----
32095 *	3/8"	2.00	0.97	0.51	0.04	----
32960	3/8 x 1/8	1.58	1.00	0.50	0.03	----
32961	3/8 x 3/16	1.75	1.00	0.50	0.03	----
32080 **	3/8" x 1/4"	2.06	0.97	0.56	0.03	----
32375 *	3/8" x 5/16"	2.00	0.97	0.50	0.03	----
32096 *	1/2"	2.00	0.96	0.62	0.06	----
32087 *	1/2" x 3/8"	2.06	0.97	0.71	0.06	----
32097	5/8"	2.05	0.96	0.75	0.08	----
32088	5/8" x 3/8"	2.06	0.97	0.75	0.06	----
32376	5/8" x 1/2"	2.06	0.97	0.75	0.07	----
32098 *	3/4"	2.50	1.15	0.87	0.10	----
32089	3/4" x 1/2"	2.28	1.19	0.87	0.10	----
32379	3/4" x 5/8"	2.02	0.96	0.87	0.10	----
32380	1" x 3/4"	2.58	1.19	1.12	0.18	----
32099	1"	3.00	1.44	1.12	0.23	----

MSB 122HBL HM 129 178 73 108



* Add SS to the end of the part number for Stainless.

** See hose splicers on page 27 for Stainless.

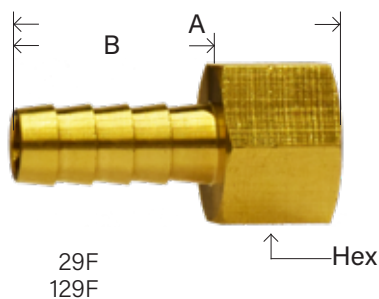
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



HOSE BARB

BRASS FITTINGS

RIGID FEMALE ADAPTER



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32050	1/8" x 1/8"	0.96	0.46	0.50	0.02	----
32317	1/8" x 1/4"	1.15	0.46	0.62	0.04	----
32051	3/16" x 1/8"	1.10	0.68	0.50	0.02	----
32062	3/16" x 1/4"	1.44	0.75	0.62	0.04	----
32052	1/4" x 1/8"	1.35	0.93	0.50	0.02	----
32053	1/4" x 1/4"	1.60	0.97	0.62	0.06	----
32054	1/4" x 3/8"	1.65	1.03	0.75	0.04	----
32441	1/4" x 1/2"	1.66	0.97	0.93	0.08	----
32055	5/16" x 1/8"	1.47	0.97	0.56	0.04	----
32056	5/16" x 1/4"	1.66	0.97	0.62	0.04	----
32318	5/16" x 3/8"	1.66	0.97	0.75	0.06	----
32320	5/16" x 1/2"	1.67	0.96	0.93	0.08	----
32057	3/8" x 1/8"	1.47	0.97	0.56	0.04	----
32058	3/8" x 1/4"	1.61	0.97	0.62	0.06	----
32059	3/8" x 3/8"	1.63	1.00	0.81	0.08	----
32063	3/8" x 1/2"	1.72	0.94	0.93	0.12	----
32442	3/8" x 3/4"	1.97	0.97	1.18	0.20	----
32449	1/2" x 1/8"	1.51	0.98	0.56	0.06	----
32064	1/2" x 1/4"	1.66	0.96	0.62	0.08	----
32060	1/2" x 3/8"	1.66	0.97	0.75	0.08	----
32061	1/2" x 1/2"	1.76	0.96	0.93	0.12	----
32443	1/2" x 3/4"	1.97	0.97	1.18	0.26	----
32444	5/8" x 3/8"	1.66	0.97	0.75	0.08	----
32445	5/8" x 1/2"	1.66	0.97	0.93	0.10	----
32446	5/8" x 3/4"	1.97	0.97	1.18	0.21	----
32447	3/4" x 1/2"	1.88	1.19	0.93	0.13	----
32065	3/4" x 3/4"	2.19	1.21	1.18	0.22	----
32049	1" x 3/4"	2.19	1.19	1.18	0.26	----
32321	1" x 1"	2.32	1.19	1.44	0.35	----
32448	1-1/4" x 1"	2.32	1.19	1.43	0.44	----

209A 128 29A 29F 126HB 126 FPB 105B-2 KF-RS 104 144

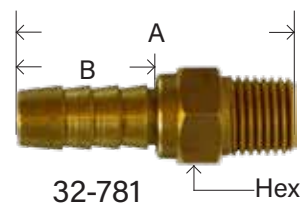
SWIVEL FEMALE ADAPTER NPTF



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32470	1/4" x 1/4"	1.80	0.97	0.62	0.06	----
32472	3/8" x 1/4"	1.80	0.97	0.62	0.06	----
32473	3/8" x 3/8"	1.82	0.97	0.75	0.09	----
32475	1/2" x 3/8"	1.82	0.97	0.75	0.09	----
32476	1/2" x 1/2"	1.86	0.97	0.93	0.14	----

HIGH VOLUME MALE SWIVEL

• 300 PSI • Nitrile Buna (NBR) O-Ring



PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32781	3/8" x 1/4"	1.83	0.87	0.62	0.07	----
28415	1/4" x 1/4"	1.30	0.94	0.81	0.14	----
28417	3/8" x 1/4"					



28-415 & 28-417

www.buyfittingsonline.com



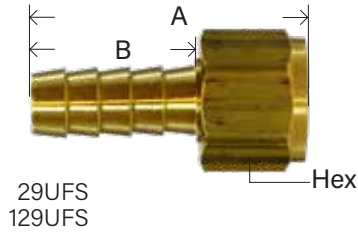
1-800-569-0810



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB**BRASS FITTINGS****SWIVEL FEMALE ADAPTER - WITH GASKET**

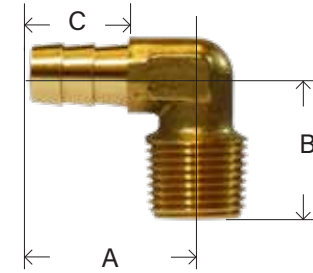
- NPSM Thread
- National Pipe Straight Gasket Seal Swivel



- Not recommend for water due to fiber gasket - for air service only.

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32131	1/8" x 1/8"	0.90	0.46	0.50	0.02	----
32132	3/16" x 1/8"	1.19	0.75	0.50	0.03	----
32133	3/16" x 1/4"	1.28	0.75	0.62	0.04	----
32120	1/4" x 1/8"	1.41	0.97	0.50	0.02	----
32121	1/4" x 1/4"	1.50	0.97	0.62	0.02	----
32129	1/4" x 3/8"	1.63	0.97	0.75	0.04	----
32130	5/16" x 1/4"	1.50	0.97	0.62	0.04	----
32122	3/8" x 1/4"	1.54	1.00	0.62	0.06	----
32123	3/8" x 3/8"	1.60	0.97	0.75	0.06	----
32354	3/8" x 1/2"	1.66	0.97	0.93	0.10	----
32124	1/2" x 3/8"	1.60	0.97	0.75	0.08	----
32125	1/2" x 1/2"	1.66	0.97	0.93	0.12	----
32117	1/2" x 3/4"	1.82	1.19	1.18	0.16	----
32118	5/8" x 3/4"	1.82	1.19	1.18	0.18	----
32119	3/4" x 3/4"	1.82	1.19	1.18	0.14	----

130 126 29FSG KF-RN NPSM Gasket Seat

FORGED HOSE BARB 90° ELBOW29E
129E

32-330

**Square Barstock Body

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32308	3/16" x 1/8"	0.95	0.70	0.66	0.37	0.02	----
32391	3/16" x 1/4"	1.00	0.84	0.63	0.46	0.10	----
32038 *	1/4" x 1/8"	1.01	0.81	0.71	0.47	0.06	----
32039 *	1/4" x 1/4"	1.01	0.87	0.63	0.47	0.06	----
32309 **	1/4" x 3/8"	1.08	0.97	0.73	0.69	0.12	----
32036	5/16" x 1/8"	1.01	0.81	0.63	0.47	0.04	----
32040	5/16" x 1/4"	1.01	0.87	0.63	0.47	0.06	----
32310	5/16" x 3/8"	1.06	0.94	0.63	0.50	0.06	----
32046 *	3/8" x 1/8"	1.01	0.81	0.63	0.47	0.06	----
32041 *	3/8" x 1/4"	1.02	0.88	0.65	0.47	0.06	----
32042 *	3/8" x 3/8"	1.09	0.93	0.68	0.50	0.08	----
32047 *	3/8" x 1/2"	1.11	1.09	0.63	0.59	0.10	----
32048	1/2" x 1/4"	1.06	1.00	0.68	0.59	0.10	----
32043 *	1/2" x 3/8"	1.06	1.09	0.69	0.59	0.10	----
32311 *	1/2" x 1/2"	1.31	1.19	0.87	0.56	0.12	----
32044	5/8" x 3/8"	1.12	1.06	0.61	0.56	0.12	----
32045	5/8" x 1/2"	1.12	1.12	0.68	0.63	0.14	----
32312	5/8" x 3/4"	1.46	1.26	0.93	1.06	0.32	----
32313	3/4" x 1/2"	1.31	1.28	0.87	0.85	0.22	----
32314 *	3/4" x 3/4"	1.46	1.26	0.91	1.06	0.32	----
32330 **	3/4" x 1"	1.57	1.64	0.90	1.34	0.64	----
32315	1" x 3/4"	1.60	1.40	0.95	1.06	0.32	----
32319	1" x 1"	1.69	1.64	0.98	1.30	0.43	----

129 HBE1 KF-PS90 HE-1 29E 146



* Add SS to the end of the part number for Stainless. See page 27.

Dimension data can change without notice. Please check when dimensions are critical.

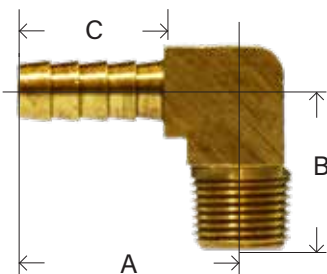


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB

BRASS FITTINGS

BARSTOCK HOSE BARB 90° ELBOW

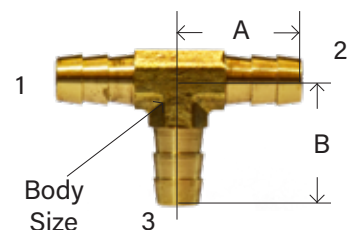


29EBS

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32038B	1/4" X 1/8"	1.00	0.75	0.75	0.50	0.02	----
32039B	1/4" X 1/4"	1.02	0.91	0.74	0.56	0.04	----
32309B	1/4" X 3/8"	1.19	0.84	0.76	0.58	0.09	----
32036B	5/16" X 1/8"	1.06	0.66	0.76	0.44	0.04	----
32040B	5/16" X 1/4"	1.12	0.84	0.76	0.58	0.07	----
32310B	5/16" X 3/8"	1.19	0.84	0.76	0.72	0.09	----
32046B	3/8" X 1/8"	1.32	0.94	0.97	0.58	0.06	----
32041B	3/8" X 1/4"	1.32	0.89	0.97	0.58	0.08	----
32042B	3/8" X 3/8"	1.50	1.06	0.97	0.75	0.14	----
32047B	3/8" X 1/2"	1.52	1.25	0.97	0.90	0.26	----
32048B	1/2" X 1/4"	1.53	1.06	0.97	0.72	0.12	----
32043B	1/2" X 3/8"	1.53	1.07	0.97	0.72	0.16	----
32311B	1/2" X 1/2"	1.53	1.25	0.97	0.90	0.26	----
32314B	3/4" X 3/4"	1.33	1.27	0.97	1.10	0.32	----

129HB

HOSE BARB TEES



Body Size



29T
129T

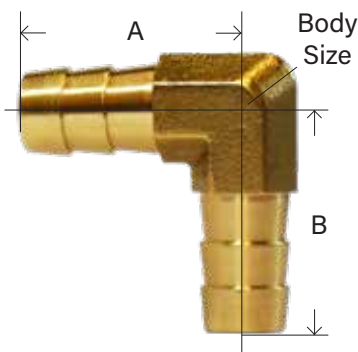
32-128

PART #	HOSE BARB SIZE (1 & 2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32367 *	1/8"	0.84	0.83	0.25	0.02	----
32368	3/16"	1.02	1.02	0.37	0.03	----
32365 **	1/4"	1.00	1.00	0.44	0.06	----
32350 *	(1/4") x 1/8"	0.94	0.94	0.44	0.04	----
32366	5/16"	1.00	1.00	0.44	0.06	----
32126 **	3/8"	1.01	1.01	0.43	0.06	----
32400 *	1/2"	1.02	1.00	0.43	0.08	----
32352 *	(1/2") x 3/8"	1.26	1.26	0.43	0.10	----
32361	5/8"	1.26	1.26	0.75	0.16	----
32363	3/4"	1.45	1.45	0.90	0.18	----
32353	(3/4") x 1/2"	1.41	1.41	0.88	0.23	----
32128 *	3/8"HB x 1/4" MIP	1.00	0.94	0.43	0.06	----

* Add SS to the end of the part number for Stainless.

** See page 29 for stainless steel.

90° HOSE BARB ELBOW

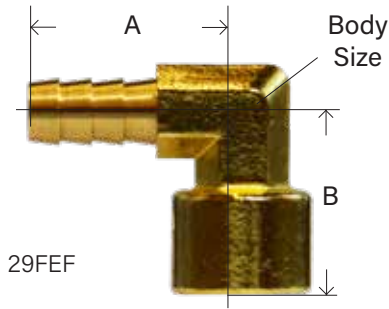


PART #	HOSE I.D. X HOSE I.D.	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32429	1/8" x 1/8"	0.55	0.55	0.37	0.03	----
32433	3/16" x 3/16"	0.90	0.90	0.37	0.03	----
32412	1/4" x 1/8"	1.02	1.02	0.44	0.04	----
32413 *	1/4" x 1/4"	1.01	1.01	0.44	0.04	----
32425	5/16" x 5/16"	1.15	1.15	0.48	0.05	----
32414	3/8" x 1/8"	1.01	1.01	0.44	0.04	----
32415	3/8" x 1/4"	1.00	1.00	0.44	0.04	----
32416 *	3/8" x 3/8"	1.02	1.02	0.44	0.04	----
32417	3/8" x 1/2"	1.24	1.10	0.50	0.06	----
32418	1/2" x 1/4"	1.24	1.08	0.50	0.06	----
32419	1/2" x 3/8"	1.22	1.09	0.50	0.06	----
32420 *	1/2" x 1/2"	1.24	1.24	0.50	0.06	----
32434	5/8" x 5/8"	1.20	1.20	0.75	0.16	----
32435	3/4" x 1/2"	1.41	1.41	0.88	0.21	----
32436	3/4" x 3/4"	1.41	1.41	0.88	0.21	----

* Add SS to the end of the part number for Stainless.

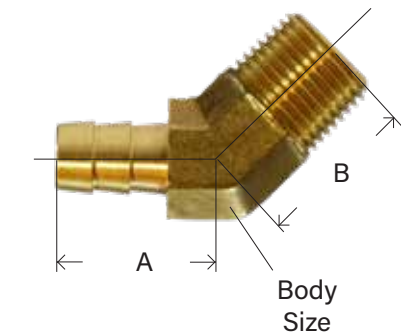
HOSE BARB

BRASS FITTINGS

90° FEMALE HOSE BARB ELBOW

29FEF

PART #	HOSE I.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32401	1/4" x 1/8"	1.01	0.82	0.47	0.06	----
32402	1/4" x 1/4"	1.13	0.91	0.56	0.10	----
32403	3/8" x 1/8"	1.01	0.82	0.47	0.06	----
32404	3/8" x 1/4"	1.15	0.91	0.56	0.10	----
32405	3/8" x 3/8"	1.15	1.11	0.68	0.14	----
32406	3/8" x 1/2"	1.26	1.39	0.75	0.20	----
32407	1/2" x 1/4"	1.26	0.91	0.56	0.10	----
32410	1/2" x 3/8"	1.24	1.11	0.68	0.14	----
32411	1/2" x 1/2"	1.37	1.39	0.75	0.20	----
32409	3/4" x 3/4"	1.52	1.75	0.81	0.50	----

45° ELBOW294S
1294S

PART #	HOSE I.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32110	1/4" x 1/8"	0.91	0.62	0.53	0.04	----
32109*	1/4" x 1/4"	1.00	0.62	0.57	0.06	----
32111	3/8" x 1/8"	0.83	0.66	0.53	0.04	----
32112	3/8" x 1/4"	0.82	0.84	0.53	0.06	----
32113	3/8" x 3/8"	0.93	0.87	0.59	0.08	----
32346	1/2" x 1/4"	1.00	0.84	0.59	0.08	----
32114	1/2" x 3/8"	1.00	0.88	0.59	0.08	----
32116	1/2" x 1/2"	1.15	0.94	0.59	0.12	----
32115	5/8" x 3/8"	0.97	0.88	0.59	0.10	----
32345	3/4" x 1/2"	1.15	0.94	0.81	0.13	----

* Barstock

140 HE145 139HB KF-PS45 13945

CROSSES

PART #	HOSE ID	LIST PRICE
32608	1/4	----
32609	5/16	----
32610	3/8	----

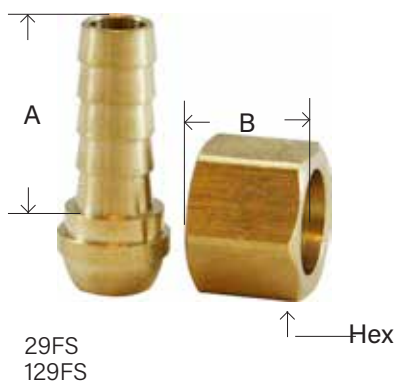
Hose Wyes available with extended lead time.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB

BRASS FITTINGS

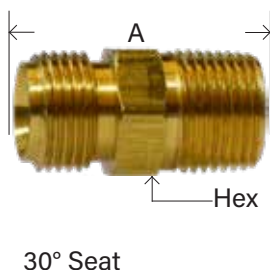
BALL END SWIVEL NPSM - Ball seat type



PART #	HOSE I.D. X NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32066	1/8" x 1/8"	0.46	0.44	0.50	0.03	----
32067	3/16" x 1/8"	0.75	0.44	0.50	0.03	----
32068	3/16" x 1/4"	0.75	0.52	0.62	0.04	----
32962	3/16" x 3/8"	0.75	0.63	0.75	0.05	----
32069	1/4" x 1/8"	0.97	0.44	0.50	0.04	----
32070	1/4" x 1/4"	0.97	0.53	0.62	0.06	----
32078	1/4" x 3/8"	0.97	0.63	0.75	0.06	----
32071	5/16" x 1/4"	0.97	0.52	0.62	0.05	----
32389	5/16" x 3/8"	0.97	0.63	0.75	0.07	----
32072	3/8" x 1/4"	0.97	0.53	0.62	0.06	----
32073	3/8" x 3/8"	0.97	0.59	0.75	0.08	----
32074	3/8" x 1/2"	0.97	0.69	0.94	0.14	----
32075	1/2" x 3/8"	0.97	0.59	0.75	0.08	----
32076	1/2" x 1/2"	0.97	0.69	0.94	0.10	----
32077	3/4" x 3/4"	0.97	0.70	1.12	0.14	----

128HBLSV 29FS 209AS 124 131

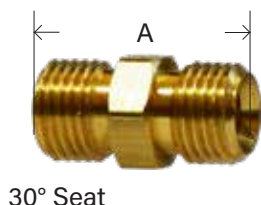
BALLSEAT MALE ADAPTER Beveled seat



PART #	NPSM X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
32359	1/8" x 1/8"	0.94	0.43	0.03	----
32034	1/4" x 1/8"	1.06	0.56	0.04	----
32030	1/4" x 1/4"	1.25	0.56	0.06	----
32362	3/8" x 1/4"	1.28	0.68	0.08	----
32031	3/8" x 3/8"	1.30	0.68	0.08	----
32392	3/8" x 1/2"	1.47	0.88	0.13	----
32364	1/2" x 3/8"	1.35	0.87	0.10	----
32032	1/2" x 1/2"	1.53	0.87	0.14	----
32033	3/4" x 3/4"	1.53	1.06	0.20	----

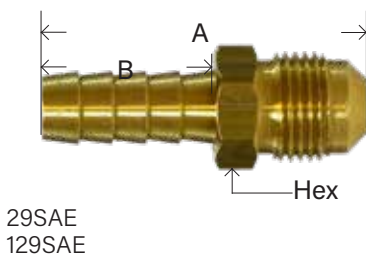
172 134 127HB 122AS

BALLSEAT UNION



PART #	NPSM X NPSM	A	HEX	APPROX. WT. LBS.	LIST PRICE
32460	1/8"	0.79	0.43	0.02	----
32461	1/4"	1.09	0.56	0.04	----
32462	3/8"	1.19	0.68	0.07	----
32463	1/2"	1.31	0.87	0.10	----

45° FLARE ADAPTER



PART #	HOSE I.D. X 45° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32322	3/16" x 1/4"	7/16-20	1.5	0.75	0.43	0.03	----
32081 *	1/4" x 1/4"	7/16-20	1.72	0.97	0.43	0.03	----
32082 *	1/4" x 3/8"	5/8-18	1.82	0.97	0.62	0.07	----
32083	5/16" x 5/16"	1/2-20	1.75	0.97	0.50	0.08	----
32084 *	3/8" x 3/8"	5/8-18	1.82	0.97	0.62	0.08	----
32085	3/8" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----
32086	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----

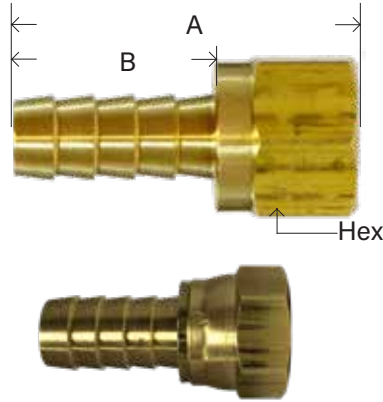
* Add SS to the end of the part number for Stainless.

142 201BF KF-MS KDS

COMPRESSION ADAPTER - BARB X MALE COMPRESSION



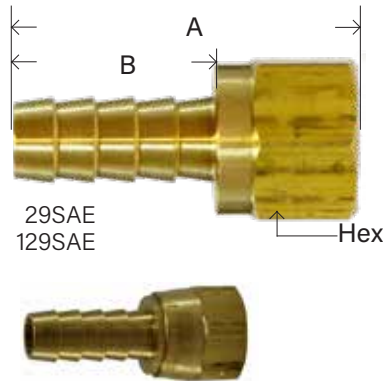
PART #	SIZE	LIST PRICE
18534	1/4" x 1/4"	

HOSE BARB**BRASS FITTINGS****DUAL 45° / 37° FLARE SWIVEL****CRIMP STYLE**

PART #	HOSE ID X DUAL SEAT	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32107	3/16" x 1/4"	7/16-20	1.34	0.75	0.56	0.04	----
32107C**	3/16" X 1/4"	7/16-20	1.42	0.78	0.56	0.04	----
32337	1/4" x 1/4"	7/16-20	1.56	0.97	0.56	0.04	----
32337C**	1/4" X 1/4"	7/16-20	1.60	0.97	0.56	0.04	----
32102	1/4" x 5/16"	1/2-20	1.61	0.97	0.62	0.06	----
32339	5/16" x 5/16"	1/2-20	1.60	0.97	0.62	0.06	----
32340	3/8" x 1/2"	3/4-16	1.68	0.97	0.87	0.10	----
32341	1/2" x 1/2"	3/4-16	1.68	0.97	0.87	0.10	----
32341C**	1/2" X 1/2"	3/4-16	1.75	0.97	0.87	0.09	----
32342	1/2" x 5/8"	7/8-14	1.76	0.97	1.00	0.12	----
32394**	5/8" x 5/8"	7/8-14	1.83	0.97	1.00	0.14	----

** Swivel crimp style

KDS

FEMALE 45° FLARE SWIVEL**CRIMP STYLE**

PART #	HOSE I.D. X FEMALE 45° FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32326	3/16" x 3/16"	3/8-24	1.19	0.75	0.43	0.04	----
30295**	3/16" x 3/8"	5/8-18	1.82	0.90	0.75	0.04	----
32101	1/4" x 1/4"	7/16-20	1.57	0.97	0.56	0.04	----
32103	1/4" x 3/8"	5/8-18	1.64	0.97	0.75	0.08	----
32104	5/16" x 5/16"	1/2-20	1.61	0.97	0.62	0.05	----
32327	5/16" x 3/8"	5/8-18	1.67	0.97	0.75	0.08	----
32105	3/8" x 3/8"	5/8-18	1.64	0.97	0.75	0.08	----
32105C**	3/8" x 3/8"	5/8-18	1.71	0.97	0.75	0.07	----
32106	3/8" x 1/2"	3/4-16	1.81	0.97	0.87	0.10	----
32100	1/2" x 1/2"	3/4-16	1.68	0.97	0.87	0.12	----
32328	3/4" x 3/4"	1-1/16-14	2.00	0.97	1.25	0.20	----

29SAE 209ASF 146HBLFSV KF-NS 128 FSS 146 144

** Swivel crimp style (crimped on the outside of fitting)

FEMALE 37° J.I.C. FLARE SWIVEL**CRIMP STYLE****STAINLESS
STEEL**

32338SS

PART #	HOSE ID X FEMALE 37° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32334	1/4" x 3/8"	9/16-18	1.60	0.97	0.68	0.06	----
32335	5/16" x 3/8"	9/16-18	1.60	0.97	0.68	0.06	----
32336	3/8" x 3/8"	9/16-18	1.60	0.97	0.68	0.10	----
32336C**	3/8" X 3/8"	9/16-18	1.66	0.97	0.68	0.06	----
32338*	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.20	----
32338SS	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.24	----
32338C	3/4" x 3/4"	1-1/16-12	2.13	1.19	1.25	0.20	----
32397**	1" x 1"	1-5/16-12	2.31	1.19	1.50	0.33	----

KJS

*Available in swivel crimp style - add a "C" at the end of the part # (100 piece minimum)

** Swivel crimp style

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

REUSABLE BRASS FITTINGS

REUSABLE MALE FITTINGS



29RU17

PART #	HOSE ID	HOSE OD	MALE NPTF	LIST PRICE
32727	1/4"	1/2"	1/4"	----
32728	1/4"	9/16"	1/4"	----
32726	1/4"	5/8"	1/4"	----
32741	5/16"	5/8"	1/4"	----
32742	3/8"	5/8"	1/4"	----
32744	3/8"	11/16"	1/4"	----
32725	3/8"	3/4"	1/4"	----
32747	3/8"	5/8"	3/8"	----
32750	3/8"	11/16"	3/8"	----
32746	1/2"	7/8"	1/2"	----

REUSABLE FEMALE SWIVEL STEMS



PART #	HOSE ID	FEMALE NPSM	LIST PRICE
32770	1/4"	1/4"-18	----
32771	3/8"	3/8"-18	----

REUSABLE FEMALE SWIV-



29RU16

PART #	HOSE ID	HOSE OD	FEMALE NPSM	LIST PRICE
32772	1/4"	1/2"	1/4"	----
32773	3/8"	5/8"	3/8"	----
32774	3/8"	11/16"	3/8"	----
32775	1/2"	7/8"	1/2"	----

REUSABLE FERRULES



PART #	HOSE ID	HOSE OD	LIST PRICE
32749	1/4"	1/2"	----
32751	1/4"	9/16"	----
32752	1/4"	5/8"	----
32753	3/8"	5/8"	----
32754	3/8"	11/16"	----
32755	3/8"	3/4"	----
32756	1/2"	7/8"	----

REUSABLE MALE STEMS



PART #	HOSE ID	MALE NPT THREAD	LIST PRICE
32758	1/4"	1/4"	----
32759	3/8"	1/4"	----
32760	3/8"	3/8"	----
32761	1/2"	1/2"	----

obstacles are things a person sees when he takes his eyes off his goal.

- E. Joseph Cossman

HOSE BARB

BRASS FITTINGS

BRASS FUEL HOSE BARBS

Typical Application: Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines. Use with fuel hose SAE 30R7 & SAE 30R9.

Advantages: Easy to assemble, just push the fitting into the hose & clamp. Good selection of configurations at reasonable cost.

MALE CONNECTOR

HOSE BARB X MALE PIPE

159
29SB

PART #	HOSE ID	MIP	IND #	LIST PRICE
38800	3/16	1/8	1541	----
38802	1/4	1/8	1537	----
32377	1/4	1/4	1581	----
38806	5/16	1/8	1551	----
38808	5/16	1/4	1555	----
38810	3/8	1/8	1565	----
32381	3/8	1/4	1564	----
32382	3/8	3/8	1566	----
32383	1/2	3/8		----
32384	1/2	1/2		----
32385	5/8	1/2	1431	----
32387	3/4	1/2	1430	----
32388	3/4	3/4		----

68HB

BUBBLE BARB MALE ADAPTER

BUBBLE X MIP



PART #	BUBBLE X MIP	LIST PRICE
32176	3/8 x 3/8	----
32177	1/2 x 1/4	----
32178	1/2 x 3/8	----
32179	1/2 x 1/2	----
32182	5/8 x 3/8	----
32183	5/8 x 1/2	----
32184	3/4 x 1/2	----
32180	3/4 x 3/4	----
32185	1 x 3/4	----
32181	1 x 1	----

INVERTED FLARE MALE CONNECTOR

HOSE BARB X INVERTED FLARE

159IN
291FSB

PART #	HOSE ID	INV. FLARE	IND #	LIST PRICE
38828	5/16	1/4	1598	----
38830	5/16	5/16	1560	----
38832	5/16	3/8	1561	----
38834	3/8	5/16	1568	----
38836	3/8	3/8	1570	----

269HB

90° MALE ELBOW

HOSE BARB X MALE PIPE

29ESB



PART #	HOSE ID	MIP	IND #	LIST PRICE
38860	1/4	1/8	1582	----
38862	5/16	1/8	1556	----
38864	5/16	1/4	1557	----
38866	3/8	1/8	1572	----
38868	3/8	1/4	1571	----

BUBBLE BARB

159E



PART #	HOSE ID	MIP	LIST PRICE
32186	3/8	3/8	----
32194	1/2	1/4	----
32187	1/2	3/8	----
32191	1/2	1/2	----
32195	5/8	1/4	----
32188	5/8	3/8	----
32189	5/8	1/2	----
32190	3/4	1/2	----
32192	3/4	3/4	----

WELDED HOSE FITTINGS

BRASS FITTINGS

INVERTED FLARE MALE SWIVEL 90° ELBOW

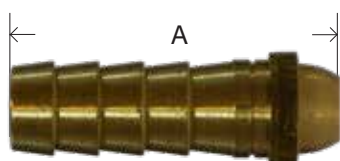
HOSE BARB X TUBE O.D.



Part #	Hose ID	Inv. Flare	Ind #	List Price
38873	5/16	5/16	1405	----
38874	3/8	3/8	1407	----

WELDED HOSE FITTINGS

STEM ONLY - WELDING HOSE CONNECTOR

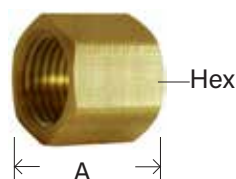


PART #	HOSE I.D.	A	APPROX. WT. LBS.	LIST PRICE
30410	3/16"	1.43	0.02	----
30411	1/4"	1.43	0.02	----
30413	3/8"	1.43	0.04	----

Assemble with nuts below.

201RWA WRS WLS

RIGHT HAND 9/16 - 18 FOR OXYGEN LINE - WELDING HOSE NUT

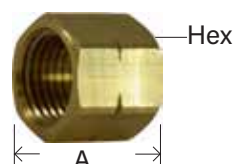


PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30420	R.H. Nut only	0.63	0.68	0.04	----

Assemble with stem above.

201RWA WRS KF-PE 152

LEFT HAND 9/16 - 18 FOR ACETYLENE LINE - WELDING HOSE NUT

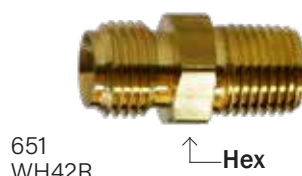


PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30421	L.H. Nut only	0.63	0.68	0.04	----

Assemble with stem above.

209LWA WLS 154 KF-RE

RIGHT HAND 9/16 - 18 #122RWA - WELDING HOSE CONNECTOR



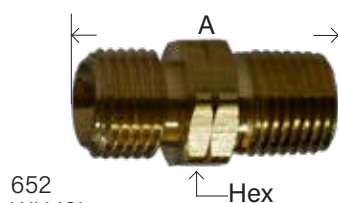
651
WH42R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30401	1/4"-18	1.30	0.62	0.06	----
32437	3/8"-18	1.30	0.68	0.09	----
32438*	9/16"-18	1.25	0.68	0.07	----

* Right UNF thread

156

LEFT HAND 9/16 - 18 #122LWA - WELDING HOSE CONNECTOR



652
WH42L

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30406	1/4"-18	1.30	0.62	0.06	----
32439	3/8"-18	1.30	0.68	0.09	----
32440*	9/16"-18	1.25	0.68	0.07	----

* Left UNF thread

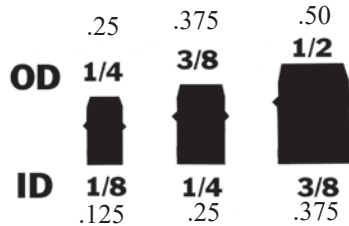
158

BARBED FOR PLASTIC TUBING

BRASS FITTINGS

BRASS BARBS FOR POLYETHYLENE TUBING

• Quick connecting fittings that do not require tube preparations for hand assembly. Inexpensive with excellent resistance to vibration.



UNION

29MBS



TUBE O.D. (TUBE I.D.) X TUBE O.D. (TUBE I.D.)

PART #	SIZE	LIST PRICE
21003	1/4(1/8) x 1/4(1/8)	----
21007	3/8(1/4) x 1/4(1/8)	----

1062 962

MALE ADAPTER

29MB



TUBE O.D. (TUBE I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21021	1/4(1/8) x 1/16	----
21023	1/4(1/8) x 1/8	----
21025	1/4(1/8) x 1/4	----

1068 968 688

FEMALE ADAPTER

29FMB



TUBE O.D. (TUBE I.D.) X FEMALE PIPE

PART #	SIZE	LIST PRICE
21043	1/4(1/8) x 1/8	----
21046	3/8(1/4) x 1/4	----
21049	1/2(3/8) x 3/8	----

1066 966 26 668

BULKHEAD UNION

29MBHS



TUBE O.D. (TUBE I.D.)

PART #	SIZE	LIST PRICE
21082	1/4(1/8)	----
21083	3/8(1/4)	----
21084	1/2(3/8)	----

1074

UNION ELBOW

29BEMB



TUBE O.D. (I.D.)

PART #	SIZE	LIST PRICE
21095	1/4(1/8)	----
21097	3/8(1/4)	----
21099	1/2(3/8)	----

1065
965

MALE 90° ELBOW

29MBE



TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21109	1/8" x 1/4-28"	----
21111	1/4(1/8) x 1/16	----
21113	1/4(1/8) x 1/8	----
21115	1/4(1/8) x 1/4	----
21117	3/8(1/4) x 1/8	----
21119	3/8(1/4) x 1/4	----

1069 969 229

FEMALE 90° ELBOW

29MBFE



TUBE O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	LIST PRICE
21133	1/4(1/8) x 1/8	----

1070 970 230

UNION TEE

29MBT



O.D. (I.D.) X O.D. (I.D.) X O.D. (I.D.)

PART #	SIZE	LIST PRICE
21151	1/4(1/8)	----
21153	3/8(1/4) X 3/8(1/4) X 1/4(1/8)	----
21155	3/8(1/4)	----
21159	1/2(3/8) X 1/2(3/8) X 3/8(1/4)	----
21161	1/2(3/8)	----

1064 964 224

MALE BRANCH TEE

3

29MRMT



O.D. (I.D.) X O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21193	1/4(1/8) x 1/4(1/8) x 1/8	----

1072 972 232

FEMALE BRANCH TEE

3

29MBPT



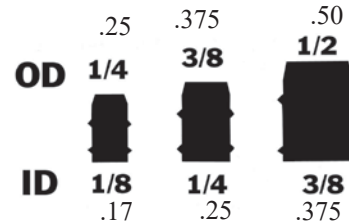
O.D. (I.D.) X O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	LIST PRICE
21207	1/4(1/8) x 1/4(1/8) x 1/8	----

1077 978

TWO BARB FITTINGS

More Sizes Available - Please Ask!



MALE ADAPTER PIPE



TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
32150	1/4(1/8) x 1/8	----
32151	1/4(1/8) x 1/4	----
32153	3/8(1/4) x 1/4	----

28

UNION TEE



PART #	TUBE O.D. (I.D.)	LIST PRICE
32159	1/4(1/8 ID)	----

90° ELBOW



PART #	TUBE O.D. (I.D.)	LIST PRICE
32170	1/4(1/8 ID)	----

225

BARSTOCK/ CAST SS HOSE BARB

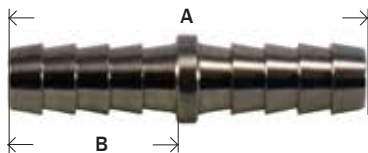
BRASS FITTINGS

316 STAINLESS STEEL MACHINED RIGID MALE ADAPTER



PART #	HOSE I.D. X NPT	LIST PRICE
32001SS	1/8" x 1/8"	----
32002SS	3/16" x 1/8"	----
32003SS	3/16" x 1/4"	----
32004SS	1/4" x 1/8"	----
32005SS	1/4" x 1/4"	----
32006SS	1/4" x 3/8"	----
32008SS	5/16" x 1/8"	----
32009SS	5/16" x 1/4"	----
32010SS	5/16" x 3/8"	----
32011SS	3/8" x 1/8"	----
32012SS	3/8" x 1/4"	----
32013SS	3/8" x 3/8"	----
32014SS	3/8" x 1/2"	----
32015SS	1/2" x 1/4"	----
32016SS	1/2" x 3/8"	----
32017SS	1/2" x 1/2"	----
32018SS	1/2" x 3/4"	----
32019SS	5/8" x 3/8"	----
32020SS	5/8" x 1/2"	----
32021SS	5/8" x 3/4"	----
32022SS	3/4" x 1/2"	----
32023SS	3/4" x 3/4"	----
32024SS	1" x 3/4"	----

316 STAINLESS STEEL SPLICER



PART #	HOSE I.D. X HOSE I.D.	A	B	LIST PRICE
32091SS	1/8"			----
32093SS	1/4"	2.03	0.97	----
32094SS	5/16"			----
32095SS	3/8"	2.06	0.97	----
32096SS	1/2"	2.06	0.97	----
32098SS	3/4"	2.50	1.19	----

316 STAINLESS STEEL BARB ELBOW



PART #	HOSE I.D. X NPT	LIST PRICE
32038SS	1/4 x 1/8	----
32039SS	1/4 x 1/4	----
32041SS	3/8 x 1/4	----
32042SS	3/8 x 3/8	----
32043SS	1/2" x 3/8"	----
32311SS	1/2 x 1/2	----
32314SS	3/4" x 3/4"	----

304 STAINLESS STEEL HOSE NIPPLES



• Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
73951	1/4"	----
73952	3/8"	----
73953	1/2"	----
73954	3/4"	----
73955	1"	----
73956	1-1/4"	----
73957	1-1/2"	----
73958	2"	----
73959	2-1/2"	----
73960	3"	----

304 STAINLESS STEEL REDUCING HOSE NIPPLES



• Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
73970	1/4" X 1/8"	----
73971	3/8" X 1/4"	----
73972	1/2" X 3/8"	----
73973	1/2" X 1/4"	----
73974	3/4" X 1/2"	----
73975	1" X 3/4"	----
73976	1" X 1/2"	----
73977	1-1/4" X 1"	----
73979	1-1/2" X 1-1/4"	----
73980	1-1/2" X 1"	----
73981	2" X 1-1/2"	----
73982	2" X 1-1/4"	----

316 STAINLESS STEEL HOSE NIPPLES



• Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
973951	1/4"	----
973952	3/8"	----
973953	1/2"	----
973954	3/4"	----
973955	1"	----
973956	1-1/4"	----
973957	1-1/2"	----
973958	2"	----
973959	2-1/2"	----
973990	3"	----



• See King nipples on page 312

BEVERAGE FITTINGS**BRASS FITTINGS****BARB TO MALE PIPE ADAPTER**

PART #	SIZE	LIST PRICE
34587	1/4" x 1/8"	----
34588	1/4" x 1/4"	----
34589	1/4" x 3/8"	----
34590	3/8" x 1/8"	----
34591	3/8" x 1/4"	----
34592	3/8" x 3/8"	----
34595	3/8" x 1/2"	----

BARB TO MALE FLARE ADAPTER**HOSE ID X 45° FLARE**

PART #	SIZE	LIST PRICE
34579	1/4" x 1/4"	----
34586	1/4" x 5/16"	----
34584	1/4" x 3/8"	----
34580	1/4" x 1/2-16"	----
34583	3/8" x 1/4"	----
34585	3/8" x 3/8"	----
34581	3/8" x 1/2-16"	----

FEMALE FLARE SWIVEL SETS

PART #	SIZE	LIST PRICE
34501	1/4" x 1/4"	----
34502	5/16" x 1/4"	----
34504	3/8" x 3/8"	----

ONE PIECE SWIVEL BARB X FE.

PART #	SIZE	LIST PRICE
34510	3/8" x 1/4"	----

HOSE SPLICER (STRAIGHT)**ID HOSE**

PART #	SIZE	LIST PRICE
34532	3/16"	----
34533	1/4"	----
34534	1/4" x 3/16"	----
34536	5/16"	----
34537	5/16" x 1/4"	----
34535	3/8"	----
34538	3/8" x 3/16"	----
34543	3/8" x 1/4"	----
34539	3/8" x 5/16"	----

THINWALL SPLICERS

PART #	SIZE	LIST PRICE
34533T	1/4"	----
34535T	3/8"	----
34541T	1/2"	----
34540T	1/2" x 3/8"	----

PLUG

PART #	SIZE	LIST PRICE
34572	1/4"	----

THINWALL

PART #	SIZE	LIST PRICE
34572T	1/4"	----

BARB X COMPRESSION

PART #	SIZE	LIST PRICE
34625	1/4" x 3/8"	----

PLATED BRASS SPLICERS**ID SIZES**

VINYL TUBE ID/ PL. TUBE ID



PART #	SIZE	LIST
34725	3/16"/1/4"	----
34726	1/4" x 3/16"/ 5/16" x 1/4"	----
34728	5/16"/3/8"	----
34727	5/16" x 3/16"/ 3/8"/1/4"	----

TAILPIECES**SS BARB X SWIVEL SHANK**

PART #	SIZE	LIST PRICE
34711	-/ 3/16"	----
34713	3/16"/ 1/4"	----
34715	1/4"/ 5/16"	----
34716	3/8"/-	----
34717	1/2"/ 3/8"	----

**N/P BRASS**

PART #	SIZE	LIST PRICE
34710	3/16"/1/4"	----
34712	1/4"/5/16"	----
34714	5/16"/3/8"	----
34716	3/8"/-	----
34718	1/2"/-	----

**#304 SS 90° ELBOW**

PART #	SIZE	LIST PRICE
34720	3/16"/-	----
34721	1/4"/1/4"	----
34722	5/16"/5/16"	----
34723	3/8"/3/8"	----

BEVERAGE FITTINGS

BRASS FITTINGS

90° SWIVEL ELBOW



HOSE ID X FEMALE 45°

PART #	SIZE	LIST PRICE
34525	1/4" x 1/4"	----
34526	3/8" x 1/4"	----
34529	3/8" x 3/8"	----
34531	1/2" x 1/2"	----

BARB TO SWIVEL ELBOW



HOSE ID X FEMALE 45° FLARE

PART #	SIZE	LIST PRICE
34600	1/4" x 1/4"	----
34601	3/8" x 1/4"	----

MALE ELBOWS



HOSE ID X MALE NPTF

PART #	SIZE	LIST PRICE
34610	1/4" x 1/8"	----
34611	3/8" x 1/4"	----
34612	3/8" x 3/8"	----
34613	1/2" x 1/2"	----

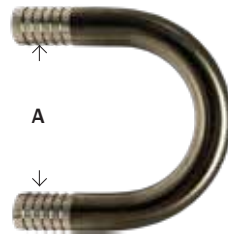
FEMALE ADAPTERS



BARB X FEMALE PIPE

PART #	SIZE	LIST PRICE
34661	1/4"	----
34658	1/2"	----

U-BEND



PART #	SIZE	A	LIST PRICE
34633	3/8"	2	----

THINWALL U-BEND

Part #	Size	A	List Price
34633T	3/8"	1-1/2	----

U-BEND W/MANIFOLD



THINWALL

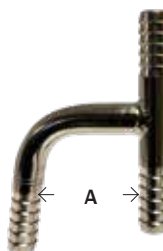
PART #	SIZE	LIST PRICE
34621T	1/4"	----
34622T	3/8"	----

CROSS



PART #	SIZE	LIST PRICE
34635T	1/4"	----
34638T	3/8"	----

Y TEES



PART #	SIZE	A	LIST PRICE
34650T	1/4"	1-1/8	----
34652T	3/8"	1-1/4	----

BARB HOSE TEES



ID HOSE

PART #	SIZE	LIST PRICE
34561	1/8"	----
34562	1/4"	----
34565	5/16"	----
34563	3/8"	----

REDUCING TEES

PART #	1&2	3	LIST PRICE
34567	1/4"	3/8"	----
34568	3/8"	1/4"	----

THINWALL TEES



PART #	SIZE	LIST PRICE
34562T	1/4"	----
34565T	5/16"	----
34563T	3/8"	----
34564T	1/2"	----

REDUCING THINWALL TEES

PART #	1&2	3	LIST PRICE
34567T	1/4"	3/8"	----
34568T	3/8"	1/4"	----

90° BARB SPLICER



ID HOSE

PART #	SIZE	LIST PRICE
34551	1/4"	----
34550	5/16"	----
34552	3/8"	----

THINWALL 90° BARB SPLICERS



PART #	SIZE	LIST PRICE
34551T	1/4"	----
34552T	3/8"	----
34553T	1/2"	----

PUSH ON HOSE BARB

BRASS FITTINGS

PUSH ON BARB FITTINGS

Typical Application: Low Pressure Air, Fuel, Lube, and Oil Lines

• Pressure determined by tube material and hardness. Our parts have been tested to max 150 PSI.

Advantages: Easy assembly. No clamps needed!!

• **Assembly Instructions**

- 1- Lubricate insert.
- 2- Hold hose at angle as shown & push on and up over first barb.
- 3- Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand.

• **Disassembling Instructions**

- 1- Split hose. Do not cut completely through hose. Sealing edge of barb could be damaged.
- 2- Bend hose and remove with a quick pull.

See lead free section for lead free push-on barb fittings. **Stainless steel available at the end of this section.**

Actual Profile of Push On Barbs

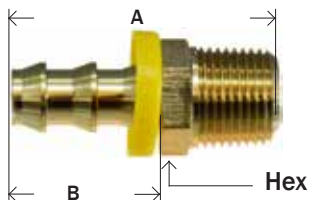


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-ON FITTINGS

BRASS FITTINGS

MALE ADAPTER



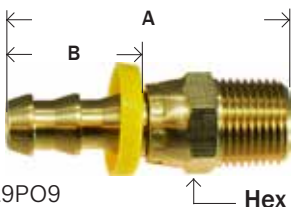
29PO1
129PO1

- See page 161 for lead free
- See page 36 for Stainless

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30200 *	1/4" x 1/8"	1.43	0.87	0.50	0.04	----
30201 *	1/4" x 1/4"	1.66	0.87	0.56	0.06	----
30211	1/4" x 3/8"	1.66	0.87	0.68	0.06	----
30208	1/4" x 1/2"	1.83	0.88	0.88	0.10	----
30212	5/16" x 1/8"	1.42	0.77	0.43	0.04	----
30213	5/16" x 1/4"	1.66	0.87	0.56	0.06	----
30202	3/8" x 1/8"	1.53	0.97	0.50	0.04	----
30203 *	3/8" x 1/4"	1.69	0.89	0.56	0.07	----
30204 *	3/8" x 3/8"	1.76	0.97	0.68	0.08	----
30205	3/8" x 1/2"	1.97	0.97	0.87	0.10	----
30392	3/8" x 3/4"	1.97	0.92	1.06	0.16	----
30216	1/2" x 1/4"	1.76	0.97	0.68	0.08	----
30206 *	1/2" x 3/8"	1.76	0.97	0.68	0.09	----
30207 *	1/2" x 1/2"	1.97	0.97	0.87	0.14	----
30217	1/2" x 3/4"	1.97	0.97	1.06	0.16	----
30218	1/2" x 1"	2.29	0.97	1.37	0.34	----
30219	5/8" x 3/8"	2.34	1.50	0.75	0.12	----
30209	5/8" x 1/2"	2.45	1.45	0.87	0.16	----
30214	5/8" x 3/4"	2.45	1.45	1.06	0.18	----
30215 *	3/4" x 1/2"	2.45	1.45	0.87	0.21	----
30210 *	3/4" x 3/4"	2.45	1.45	1.06	0.20	----
30238	1" x 3/4"	2.93	1.50	1.25	0.43	----
30239	1" x 1"	3.11	1.50	1.37	0.49	----

301 P990A HLM 100B-1 KA-MB 272 29PO 725 625 BPN 941 30182

MALE SWIVEL

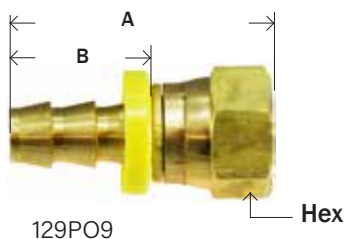


29PO9
129PO2

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30422	1/4" x 1/8"	2.07	0.87	0.56	0.06	----
30385	1/4" x 1/4"	2.02	0.87	0.56	0.06	----
30423	3/8" x 1/8"	2.12	0.97	0.56	0.07	----
30386	3/8" x 1/4"	2.12	0.97	0.56	0.08	----
30387	3/8" x 3/8"	2.12	0.97	0.68	0.08	----
30388	1/2" x 3/8"	2.12	0.97	0.68	0.10	----
30389	1/2" x 1/2"	2.33	0.97	0.87	0.14	----
30424	5/8" x 1/2"	2.80	1.45	0.88	0.18	----
30390	3/4" x 3/4"	2.80	1.45	1.06	0.24	----

921 HMS 285 31382

FEMALE GASKET SEAL SWIVEL - NPSM

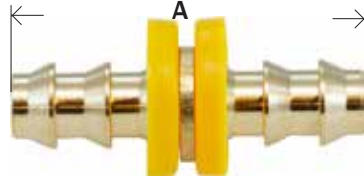


129PO9

PART #	HOSE I.D. X GASKET SWIVEL (NPSM)	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30359	1/4" x 1/8"	1.39	0.77	0.50	0.03	----
30358	1/4" x 1/4"	1.47	0.82	0.68	0.06	----
30360	3/8" x 1/4"	1.61	1.00	0.68	0.06	----
30361	3/8" x 3/8"	1.77	0.97	0.81	0.08	----
30362	3/8" x 1/2"	1.80	0.92	0.93	0.09	----
30363	1/2" x 1/2"	1.90	1.02	0.93	0.11	----
30366	3/4" x 3/4"	2.36	1.55	1.18	0.32	----

- Not recommend for water due to fiber gas-
ket - for air service only.

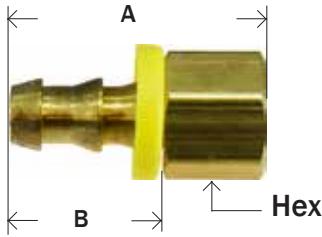
Dimension data can change without
notice. Please check when dimensions
are critical.

PUSH ON HOSE BARB**BRASS FITTINGS****HOSE SPLICER**

29P08
129PO14

PART #	HOSE I.D.	A	APPROX. WT. LBS.	LIST PRICE
30300	1/4"	1.87	0.04	----
30305	5/16"	1.80	0.04	----
30301	3/8"	2.00	0.06	----
30302	1/2"	2.01	0.08	----
30303	5/8"	3.03	0.14	----
30304	3/4"	3.03	0.14	----
30306	1"	3.21	0.28	----

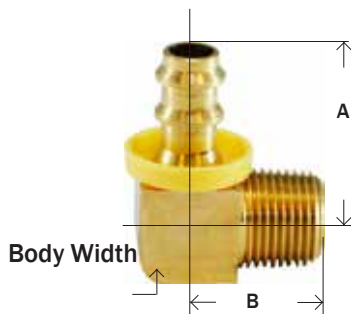
BPM 696 29SPO 296 915 729 100B-Y KA-RM MHL 296 38282

RIGID FEMALE ADAPTER

29PO2
129PO7

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30220	1/4" x 1/8"	1.35	0.87	0.50	0.02	----
30221	1/4" x 1/4"	1.51	0.87	0.62	0.06	----
30384	1/4" x 3/8"	1.51	0.77	0.75	0.06	----
30391	5/16" x 1/8"	1.32	0.77	0.50	0.03	----
30222	5/16" x 1/4"	1.51	0.87	0.62	0.06	----
30393	3/8" x 1/8"	1.47	0.92	0.56	0.06	----
30224	3/8" x 1/4"	1.61	0.97	0.62	0.06	----
30225	3/8" x 3/8"	1.63	0.97	0.75	0.06	----
30394	3/8" x 1/2"	1.66	0.92	0.93	0.12	----
30397	3/8" x 3/4"	1.97	0.97	1.18	0.20	----
30223	1/2" x 1/4"	1.76	1.02	0.68	0.08	----
30226	1/2" x 3/8"	1.63	0.97	0.75	0.08	----
30227	1/2" x 1/2"	1.77	0.97	0.93	0.14	----
30396	1/2" x 3/4"	2.07	1.02	1.18	0.20	----
30398	5/8" x 3/8"	2.24	1.55	0.75	0.10	----
30229	5/8" x 1/2"	2.24	1.48	0.93	0.11	----
30403	5/8" x 3/4"	2.26	1.44	1.19	0.20	----
30399	3/4" x 1/2"	2.24	1.50	0.93	0.14	----
30395	3/4" x 3/4"	2.55	1.50	1.18	0.24	----
30400	1" x 3/4"	2.55	1.55	1.18	0.25	----
30402	1" x 1"	2.68	1.55	1.43	0.37	----

30282 29FPO HLF 626 274 726 940

MALE ELBOW

29POE
129PO20

PART #	HOSE I.D. X MALE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
30372	1/4" x 1/8"	0.98	0.75	0.50	0.04	----
30373	1/4" x 1/4"	1.04	0.95	0.56	0.06	----
30374	5/16" x 1/8"	1.02	0.94	0.50	0.06	----
30375	5/16" x 1/4"	1.09	0.94	0.56	0.08	----
30370	3/8" x 1/8"	1.11	0.75	0.50	0.10	----
30371	3/8" x 1/4"	1.13	0.90	0.56	0.10	----
30376	3/8" x 3/8"	1.21	0.92	0.70	0.12	----
30377	3/8" x 1/2"	1.30	1.19	0.87	0.22	----
30382	1/2" x 3/8"	1.32	1.02	0.70	0.13	----
30378	1/2" x 1/2"	1.50	1.19	0.87	0.22	----
30379	5/8" x 1/2"	1.98	1.19	0.87	0.26	----
30383	3/4" x 1/2"	2.15	1.24	0.87	0.25	----
30381	3/4" x 3/4"	2.07	1.28	1.06	0.34	----

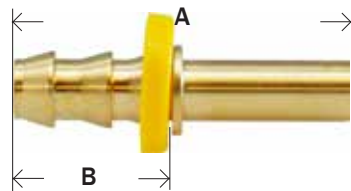
100-C 29EPO 273

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB

BRASS FITTINGS

RIGID TUBE ADAPTER

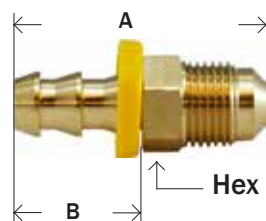


29PO1D
129PO15

PART #	HOSE I.D. X O.D TUBE	A	B	APPROX. WT. LBS.	LIST PRICE
30290	1/4" x 3/16"	1.68	0.77	0.04	----
30291	1/4" x 1/4"	1.88	0.77	0.04	----
30292	1/4" x 5/16"	1.88	0.77	0.04	----
30293	5/16" x 5/16"	1.91	0.79	0.04	----
30294	3/8" x 3/8"	2.03	0.92	0.06	----
30426	3/8" x 1/2"	1.81	0.97	0.04	----
30297	1/2" x 1/2"	2.13	1.02	0.06	----
30298	5/8" x 5/8"	2.61	1.50	0.10	----
30299	3/4" x 3/4"	2.61	1.50	0.25	----

294 100B-X KA-RL 303 732 694

MALE SAE FLARE ADAPTER

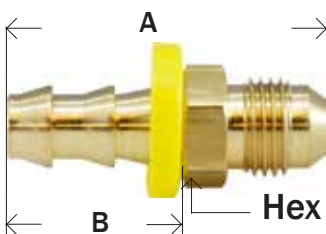


29PO3
129PO4

PART #	HOSE I.D. X 45° MALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30240	1/4" x 1/4"	7/16-20	1.45	0.75	0.43	0.04	----
30241	1/4" x 5/16"	1/2-20	1.59	0.84	0.50	0.04	----
30249	5/16" x 5/16"	1/2-20	1.60	0.80	0.50	0.06	----
30271	3/8" x 5/16"	1/2-20	1.64	0.86	0.50	0.08	----
30243	3/8" x 3/8"	5/8-18	1.83	0.92	0.62	0.08	----
30245	1/2" x 1/2"	3/4-16	1.98	1.02	0.875	0.10	----
30246	5/8" x 5/8"	7/8-14	2.73	1.50	0.87	0.19	----
30247	3/4" x 3/4"	1-1/16-14	2.98	1.50	1.06	0.32	----

100B-3 KA-MS 727 945 682 302 282

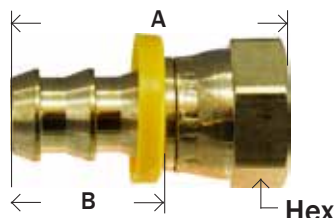
37° MALE JIC FLARE ADAPTER



29PO11
129PO6

PART #	HOSE I.D. X MALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32900	1/4" x 1/4"	7/16-20	1.57	0.84	0.50	0.04	----
32901	1/4" x 5/16"	1/2-20	1.60	0.83	0.56	0.04	----
32906	1/4" x 3/8"	9/16-18	1.63	0.77	0.62	0.05	----
32902	3/8" x 3/8"	9/16-18	1.78	0.97	0.62	0.06	----
32903	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	----
32907	5/8" x 5/8"	7/8-14	2.62	1.50	0.93	0.19	----
32905	3/4" x 3/4"	1-1/16-12	2.79	1.50	1.12	0.29	----

SAE/JIC DUAL 45°/37° FEMALE SWIVEL



29PO5
129PO10

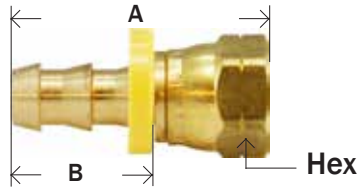
PART #	HOSE I.D. X DUAL SEAT	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30230 *	1/4" x 1/4"	7/16-20	1.53	0.87	0.56	0.06	----
30231	1/4" x 5/16"	1/2-20	1.53	0.87	0.62	0.04	----
30232	5/16" x 5/16"	1/2-20	1.56	0.87	0.62	0.04	----
30427	3/8" x 5/16"	1/2-20	1.74	0.87	0.62	0.06	----
30233	3/8" x 1/2"	3/4-16	1.79	0.97	0.87	0.10	----
30234 *	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.10	----
30235	1/2" x 5/8"	7/8-14	1.84	0.97	1.00	0.12	----
30236	5/8" x 1/2"	3/4-16	2.27	1.45	0.87	0.18	----
30237	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	----
30428	3/4" x 5/8"	7/8-14	2.33	1.45	1.00	0.20	----

* See page 36 for stainless

* See page 161 for lead free

29FDS 287 HDF 309 735 690 P990-K 305 935/934

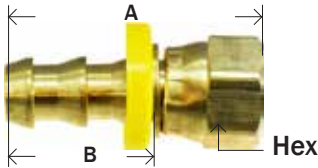
DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

PUSH ON HOSE BARB**BRASS FITTINGS****45° SAE FLARE FEMALE SWIVEL**

29P06
129PO14

PART #	HOSE I.D. X 45° FEMALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30250	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	----
30251	1/4" x 5/16"	1/2-20	1.57	0.87	0.62	0.04	----
30253	1/4" x 3/8"	5/8-18	1.63	0.87	0.75	0.06	----
30254	5/16" x 5/16"	1/2-20	1.58	0.87	0.68	0.06	----
30260	5/16" x 3/8"	5/8-18	1.63	0.87	0.75	0.08	----
30252	3/8" x 3/8"	5/8-18	1.73	0.97	0.75	0.10	----
30257	3/8" x 1/2"	3/4-16	1.85	0.87	0.87	0.10	----
30261	1/2" x 3/8"	5/8-18	1.92	1.05	0.75	0.10	----
30255	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.12	----
30258	5/8" x 5/8"	7/8-14	2.35	1.45	1.00	0.14	----
30259	3/4" x 3/4"	1-1/16-14	2.42	1.45	1.25	0.22	----

30882 728 P990-H 29AEPO 307 284 100S-4 KA-NS HSF 684 934

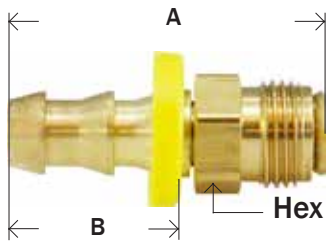
FEMALE 37° JIC FLARE SWIVEL

29P07
129PO12

PART #	HOSE I.D. X FEMALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30265	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	----
30264	1/4" x 3/8"	9/16-18	1.57	0.87	0.68	0.06	----
30270	5/16" x 3/8"	9/16-18	1.60	0.82	0.68	0.06	----
30266 *	3/8" x 3/8"	9/16-18	1.70	0.97	0.68	0.08	----
30267	1/2" x 1/2"	3/4-16	1.78	0.97	0.87	0.10	----
30268	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	----
30269 *	3/4" x 3/4"	1-1/16-12	2.40	1.45	1.25	0.22	----
30429	1" x 1"	1-5/16-12	2.60	1.45	1.50	0.39	----

* See page 36 for stainless

JF 944/934 29J1CPO HJF 688 738 288 100B-6 308 P990-F 30682 KA-NJ

INVERTED FLARE MALE SWIVEL

29P016
129PO6

PART #	HOSE I.D. X MALE INV FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30275	1/4" x 3/16"	3/8-24	1.52	0.87	0.37	0.04	----
30276	1/4" x 1/4"	7/16-24	1.56	0.87	0.43	0.04	----
30277	1/4" x 5/16"	1/2-20	1.62	0.87	0.50	0.04	----
30280	5/16" x 5/16"	1/2-20	1.62	0.87	0.50	0.06	----
30283	5/16" x 3/8"	5/8-18	1.63	0.87	0.62	0.06	----
30284	3/8" x 5/16"	1/2-20	1.72	0.97	0.50	0.06	----
30279	3/8" x 3/8"	5/8-18	1.76	0.97	0.62	0.06	----
30282	1/2" x 1/2"	3/4-18	1.84	0.97	0.75	0.10	----
30286	5/8" x 5/8"	7/8-18	2.50	1.57	0.87	0.14	----

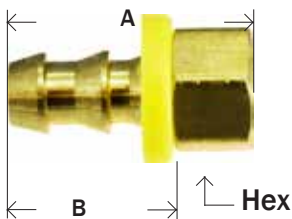
290 100B-B KA-MF 1MS 947

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB

BRASS FITTINGS

INVERTED FLARE FEMALE ADAPTER

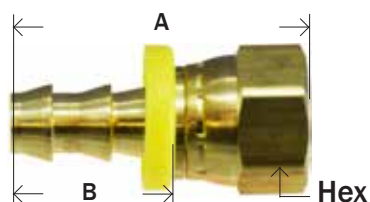


29P013
129P013

PART #	HOSE I.D. X FEMALE INV FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30310	1/4" x 3/16"	1.12	0.84	0.50	0.02	----
30311	1/4" x 1/4"	1.14	0.84	0.56	0.02	----
30312	1/4" x 5/16"	1.18	0.82	0.62	0.02	----
30316	5/16" x 5/16"	1.25	0.81	0.62	0.04	----
30313	3/8" x 5/16"	1.32	0.87	0.62	0.04	----
30314	3/8" x 3/8"	1.35	0.95	0.75	0.06	----
30315	1/2" x 1/2"	1.73	1.04	0.87	0.12	----

306 100B-A KA-NG 292 P990-J 736 692 946

FEMALE BALLSEAT SWIVEL

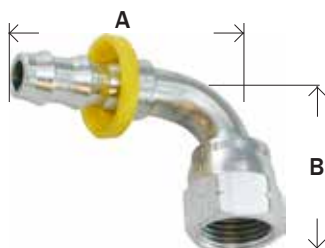


29P04
129P08

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30340	1/4" X 1/8"	1.39	0.85	0.50	0.06	----
30341	1/4" X 1/4"	1.47	0.82	0.68	0.06	----
30342	1/4" x 3/8"	1.40	0.77	0.68	0.09	----
30343	3/8" X 1/4"	1.61	0.97	0.68	0.08	----
30344	3/8" X 3/8"	1.75	0.95	0.81	0.10	----
30430	3/8" x 1/2"	1.79	0.97	0.93	0.11	----
30346	1/2" X 1/2"	1.88	1.09	0.93	0.12	----
30345	1/2" x 3/4"	2.36	1.02	1.18	0.18	----
30349	3/4" X 3/4"	2.36	1.55	1.18	0.22	----

628 278 295PO 731 NPSM

SAE/ JIC 37°/ 45° FEMALE SWIVEL 90° ZINC PLATED STEEL



PART #	HOSE I.D. X FE- MALE 37°/45°	UNF THREAD	A	B	APPROX. WT. LBS.	LIST PRICE
30480	1/4"	7/16-20	1.55	0.83	.064	----
30482	3/8"	9/16-18	1.85	0.91	.095	----
30483*	3/8"	5/8-18	1.98	0.85	.095	----
30484	1/2"	3/4-16	2.33	1.09	.171	----
30486	3/4"	1-1/16-12	3.26	1.81	.281	----

* SAE

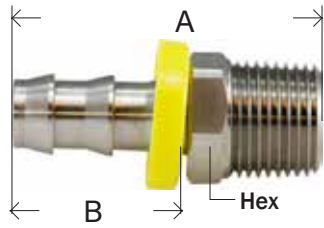
When we ask for advice, we are usually looking for an accomplice

~ Marquis de la Grange

STAINLESS STEEL PUSH ON 316 HOSE BARB

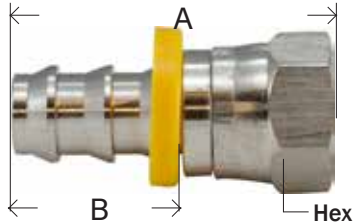
BRASS FITTINGS

316 STAINLESS STEEL MALE ADAPTERS



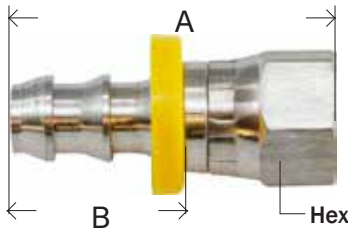
PART #	HOSE I.D. X NPT	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30200SS	1/4" x 1/8"	1.42	0.77	0.44	0.027	----
30201SS	1/4" x 1/4"	1.61	0.77	0.56	0.043	----
30203SS	3/8" x 1/4"	1.76	0.92	0.56	0.053	----
30204SS	3/8" x 3/8"	1.76	0.92	0.69	0.067	----
30206SS	1/2" x 3/8"	1.86	1.02	0.69	0.071	----
30207SS	1/2" x 1/2"	2.07	1.02	0.88	0.119	----
30215SS	3/4" x 1/2"	2.55	1.50	0.88	0.20	----
30210SS	3/4" x 3/4"	2.55	1.50	1.06	0.194	----

316 STAINLESS STEEL SAE/ JIC 45°/ 37° FEMALE SWIVEL



PART #	HOSE I.D. X FEMALE 45°/37°	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30230SS	1/4" x 1/4"	1.48	0.74	0.56	0.023	----
30234SS	1/2" x 1/2"	1.93	1.03	0.88	0.04	----

316 STAINLESS STEEL FEMALE 37° JIC FLARE SWIVEL



PART #	HOSE I.D. X FEMALE 37°	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30266SS	3/8" x 3/8"	1.75	.92	0.68	0.065	----
30269SS	3/4" x 3/4"	2.53	1.50	1.25	0.259	----

If opportunity doesn't knock, build a door.

- Milton Berle

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE FITTINGS



• Temperature and Working Pressure Ranges

From +35°F to +100°F at 75 PSI maximum or the recommended working pressure of the garden hose. (Not to exceed 150 PSI.)

Note: All female connector ends should have a rubber washer inserted prior to usage.

FGH = Female Garden Hose threads

MGH = Male Garden Hose threads

Male garden hose threads are all 3/4" with an outside diameter of 1.0625 and 11-1/2" threads per inch.



Male Garden Hose Profile



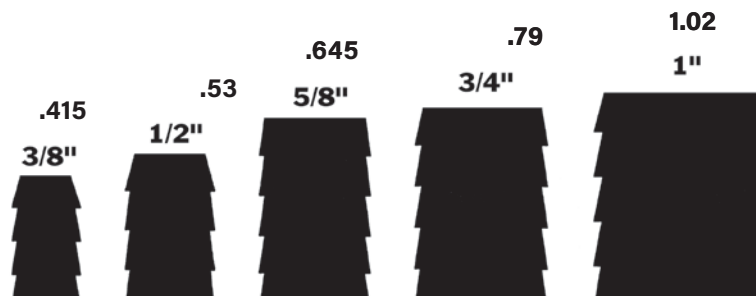
See Plastic section for Plastic Garden Hose Fittings



See page 162 for lead free Garden Hose

Washers included are #30150B black rubber washers.

Actual Profile of Garden Hose Barbs



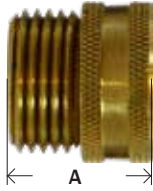
STAINLESS STEEL PUSH ON 316 HOSE BARB

BRASS FITTINGS

SWIVEL - MGH X FGH

•WASHER INCLUDED

Internal Hex →



PART #	MGH X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30000**	3/4" x 3/4"	1.03	0.50*	0.26	----

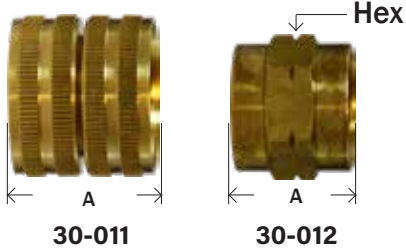
* Internal Hex

* Not a live swivel

** available in swivel crimp style

SWIVEL - FGH X FGH

•WASHER INCLUDED



PART #	FGH X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30011	3/4" x 3/4"	1.03	1.18 O.D.	0.24	----
30012	No Swivel	1.08	1.19	0.24	----

HUS 91 203W GSU 101GH5V 22AS 506 FS66

SWIVEL - FGH X FEMALE PIPE

•WASHER INCLUDED



PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30001	3/4" x 1/2"	1.20	1.00	0.11	----
30006	3/4" x 3/4"	1.11	1.12	0.11	----

S1 HSU11 91Z 197S 98GH5V 5AS 21517 502 FS65

EVAPORATIVE COOLER FITTINGS



PART #	SIZE	LIST PRICE
50016	MGH x 1/2" FIP	----
30013	1/2 MIP x 1/2 FIP x 1/8	----
30019	3/4 MIP x 3/4 FIP x 1/8	----
30020	MGH x FGH x 1/8	----

RIGID - FGH X FEMALE PIPE

•WASHER INCLUDED



PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30016	3/4" x 1/8"	1.02	1.18	0.08	----
30017	3/4" x 1/4"	0.65	1.12	0.07	----
30018	3/4" x 3/8"	1.19	1.18	0.11	----

95GH 501

GARDEN HOSE

BRASS FITTINGS

RIGID - FGH X FEMALE PIPE



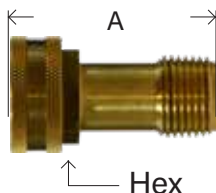
Hex

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30078	3/4" x 1/2"	1.06	1.18	0.10	----
30083	3/4" x 3/4"	1.06	1.18	0.12	----

FS67 198 HU11 21507 501 99GH 5A H15PP

SWIVEL - FGH X MALE PIPE

• WASHER INCLUDED



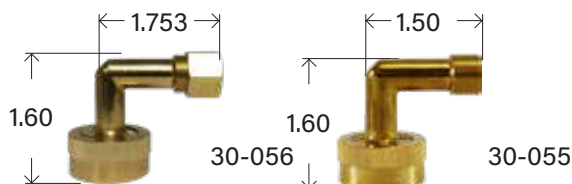
Hex

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30047	3/4" x 1/4"	2.04	0.75	0.13	----
30048	3/4" x 3/8"	2.06	0.75	0.14	----
30049	3/4" x 1/2"	2.06	0.87	0.18	----

504 89GH W1 62H4 88GH W1

3/8" COMP 3/4" FGH DISHWASHER 90° ELBOW

• WASHER INCLUDED



PART #	3/4 FEMALE GARDEN HOSE THREAD X 3/8 COMPRESSION	LIST PRICE
30055	3/4" x 3/8" Body Only	----
30056	3/4" x 3/8" w/ nut & sleeve	----

SWIVEL - FGH X MALE PIPE

• WASHER INCLUDED



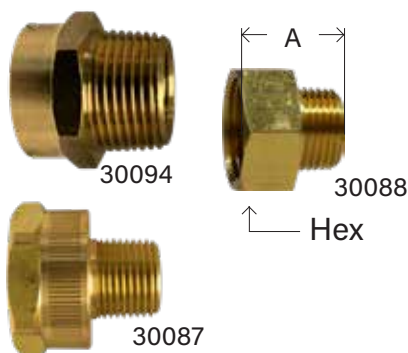
30-183 Hex

* Crimp style

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30181*	3/4" x 1/4"	1.43	1.18	0.13	----
30184*	3/4" x 3/8"	1.43	1.18	0.15	----
30183	3/4" x 1/2"	1.32	0.81	0.11	----
30182*	3/4" x 3/4"	1.43	1.18	0.14	----

RIGID - FGH X MALE PIPE

• WASHER INCLUDED



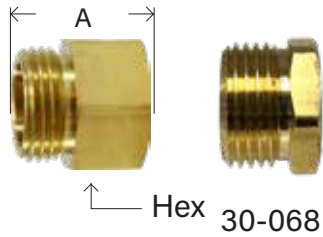
PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30087	3/4" x 3/8"	1.37	1.18	0.11	----
30088	3/4" x 1/2"	1.06	1.18	0.09	----
30088S	3/4" x 1/2" (1/2" SWT)				
30093	3/4" x 3/4"	1.06	1.18	0.11	----
30094	3/4" x 3/4" (1/2" FIP)	1.17	1.18	0.11	----
30093L*	3/4" x 3/4"	1.22	1.18	0.14	----

* Long pattern

** 1/2 Swt = 5/8 O.D.

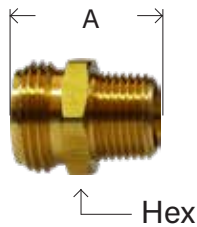
21505 503 83GH 20A HU21 199 H7

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE**BRASS FITTINGS****RIGID - MGH X FEMALE PIPE**

PART #	MGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30066	3/4" x 1/4"	1.10	1.06	0.09	----
30067	3/4" x 3/8"	1.09	1.06	0.12	----
30068	3/4" x 1/2"	0.81	1.06	0.10	----
30073	3/4" x 3/4"	1.12	1.18	0.10	----
30074	3/4" x 1"	1.36	1.37	0.19	
30075	1" x 1"	1.60	1.38	0.25	

197 18R HU12 H11PP 18A 507 18H 81GH 21503 MF67

RIGID - MGH X MALE PIPE

PART #	MGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30054	3/4" x 1/4"	1.26	1.06	0.12	
30053	3/4" x 3/8"	1.25	1.06	0.10	----
30058	3/4" x 1/2"	1.31	1.06	0.12	----
30058S*	3/4" x 1/2" SWT				
30063**	3/4" x 3/4" x 1/2"	1.31	1.06	0.13	----
30063BE***	3/4" x 3/4"	1.31	1.06	0.15	----
30063S	3/4" x 3/4" Short	1.10	1.06	0.10	----
30064	3/4" x 1"	1.88	1.37	0.35	----
30065	1" x 1"	1.88	1.37	0.26	

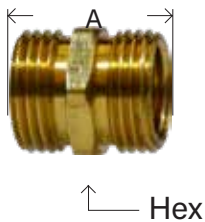
No Tap

19R 196 H530 21501 508 HU22 514 71GH 19A

* (1/2 Swt = 5/8 O.D.)

** (Tapped 1/2 FIP)

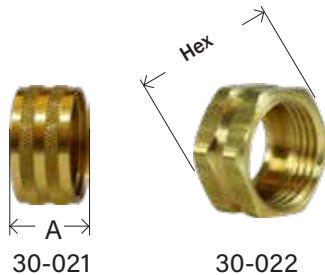
*** (Tapped 1/2 FIP Both ends)

RIGID - MGH X MGH

PART #	MGH X MGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30098	3/4" x 3/4" (1/2" FIP)	1.22	1.06	0.13	----
30099	3/4" x 3/4"	1.38	1.06	0.15	----
30100*	1" x 3/4"	1.31	1.37	0.21	----
30101	1" x 1"	1.38	1.37	0.23	

* 1-11-1/2

21500 509 75GH 23A H8 19R

GARDEN HOSE NUT

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30021	Knurled	0.61	1.37 O.D.	0.08	----
30022	Hex Nut	0.62	1.18	0.08	----

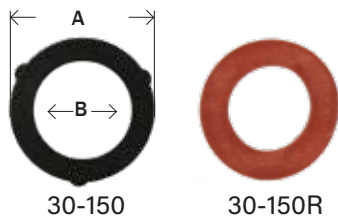
Dimension data can change without notice. Please check when dimensions are critical.

94GH GHN1 HNR 21514

GARDEN HOSE

BRASS FITTINGS

GARDEN HOSE WASHERS

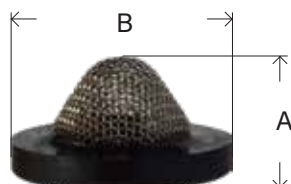


PART #	SIZE	A	B	THICK-NESS	APPROX. WT. LBS.	LIST PRICE
30150	black*	0.98	0.68	0.13	0.01	----
30150R	red	1.00	0.68	0.13	0.01	----
30150B	black rubber	1.00	0.68	0.13	0.01	----
30151	1"	1.27	0.86	0.16	0.01	----

* plasticized rubber

GHW 901GH

GARDEN HOSE FILTER WASHER

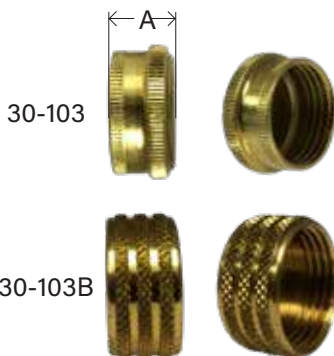


▪ 300 Series Stainless Steel Screen

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
30180	30 Mesh	0.52	1.00	0.02	----
30180F	60 Mesh	0.52	1.00	0.02	----

LA662

GARDEN HOSE CAP

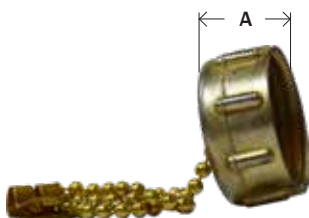


PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30103	3/4" Die Cast	0.58	0.04	----

513 96GH GHN5 HC1 LA215 21518 200-W

▪ Garden hose washers sold seperately

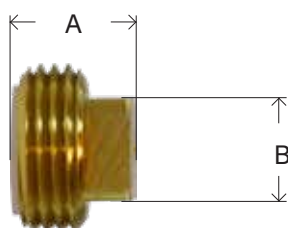
GARDEN HOSE CAP WITH CHAIN



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30142	3/4" w/ 12" Chain	0.58	0.06	----

* Zinc die cast

GARDEN HOSE PLUG



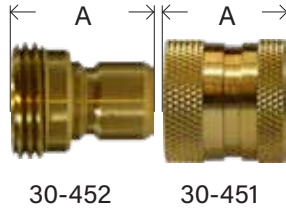
PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
30026	3/4"	0.69	0.61	0.12	----

GARDEN HOSE**BRASS FITTINGS****HOSE MENDERS - SOLID BARB X BARB**

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	LIST PRICE
32096	1/2"	2.00	0.96	0.62	0.06	----
32097	5/8"	2.05	0.96	0.75	0.08	----
32098	3/4"	2.50	1.15	0.87	0.10	----
32099	1"	3.00	1.44	1.02	0.23	----

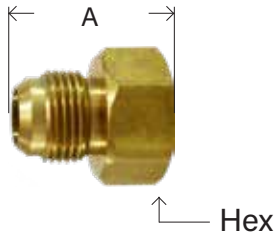
QUICK DISCONNECT GARDEN HOSE COUPLERS**.WASHER INCLUDED**

- Unvalved construction allows maximum Flow
- 150 PSI
- NBR Seals



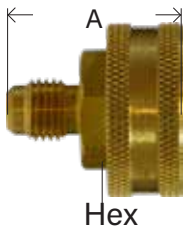
PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30450	Complete	1.70	0.24	----
30451	Female end	1.14	0.12	----
30452	Male end	1.26	0.12	----
30149	Recessed Washer	1.02	0.01	

LA73C

MALE FLARE X FGH RIGID

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30123	3/8" x 3/4"	1.31	1.18	0.10	----
30128	1/2" x 3/4"	1.38	1.18	0.12	----
30133	5/8" x 3/4"	1.53	1.18	0.14	----

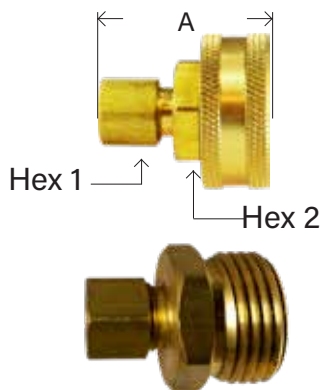
190 46WH HFU21

MALE FLARE X FGH SWIVEL**.WASHER INCLUDED**

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30052	1/4" x 3/4"	1.24	0.75	0.10	----
30138	3/8" x 3/4"	1.25	0.25*	0.12	----
30139	1/2" x 3/4"	1.49	0.81	0.14	----

* Internal Hex

50GHSV 51GHSV W1 68H 191

COMPRESSION X FGH**.WASHER INCLUDED**

PART #	SWIVEL COMPRESSION X FGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
30050	1/4" x 3/4"	1.02	0.50	0.75	0.09	----
30051	3/8" x 3/4"	1.04	0.62	0.75	0.12	----

PART #	NO SWIVEL COM- PRESSION X MGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
30135	1/4" x 3/4"	1.45	0.50	0.625	0.14	----
30136	3/8" x 3/4"	1.525	0.625	0.62	0.15	----
30137	1/2" x 3/4"	1.8	0.815	0.685	0.19	----

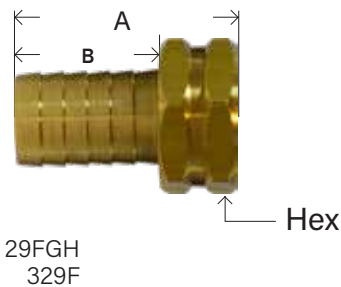
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE

BRASS FITTINGS

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY



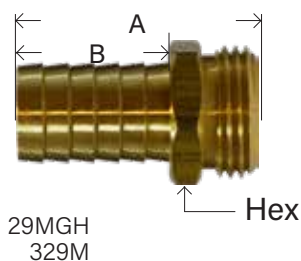
BRASS

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30031	3/8" x 3/4"	1.82	1.19	1.18	0.11	----
30032	1/2" x 3/4"	1.82	1.19	1.18	0.12	----
30033	5/8" x 3/4"	1.82	1.19	1.18	0.13	----
30034	3/4" x 3/4"	1.82	1.19	1.18	0.15	----
30044	1" x 3/4"	2.10	1.19	1.18	0.18	----
30035	1" x 1"	2.28	1.47	1.50	0.18	----

STAINLESS STEEL 316

30032SS	1/2" x 3/4"	1.82	1.19	1.18	0.12	----
30033SS	5/8" x 3/4"	1.82	1.19	1.18	0.13	----
30034SS	3/4" x 3/4"	1.82	1.19	1.18	0.15	----

MALE END ONLY



BRASS

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30039	3/8" x 3/4"	1.88	1.19	1.06	0.12	----
30040	1/2" x 3/4"	1.88	1.19	1.06	0.12	----
30041	5/8" x 3/4"	1.88	1.19	1.06	0.12	----
30042	3/4" x 3/4"	1.88	1.19	1.06	0.13	----
30045	1" x 3/4"	1.94	1.19	1.06	0.21	----
30043	1" x 1"	2.34	1.47	1.37	0.26	----

STAINLESS STEEL 316

30040SS	1/2" x 3/4"	1.88	1.19	1.06	0.12	----
30041SS	5/8" x 3/4"	1.88	1.19	1.06	0.12	----
30042SS	3/4" x 3/4"	1.88	1.19	1.06	0.13	----

GARDEN HOSE COUPLING



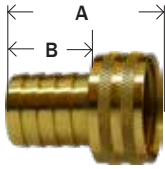
BRASS

PART #	HOSE BARB	LIST PRICE
30025	3/8"	----
30027	1/2"	----
30028	5/8"	----
30029	3/4"	----
30046	1"(3/4" threads)	----
30030	1"	----

STAINLESS STEEL 316

30027SS	1/2"	----
30028SS	5/8"	----
30029SS	3/4"	----

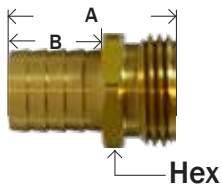
Dimension data can change without notice. Please check when dimensions are critical.

GARDEN HOSE**BRASS FITTINGS****FEMALE SWIVEL ONLY - SHORT SHANK KNURLED NUT**

PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	LIST PRICE
30464	1/4" x 3/4"	1.39	0.77	0.09	
30466	1/2" x 3/4"	1.50	0.88	0.08	----
30467	5/8" x 3/4"	1.50	0.88	0.09	----
30468	3/4" x 3/4"	1.47	0.88	0.10	----

FEMALE END ONLY - SHORT SHANK W/ HEX

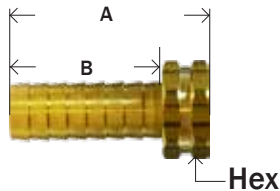
PART #	HOSE X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30453	1/2" x 3/4"	1.63	1.00	1.18	0.11	----
30454	5/8" x 3/4"	1.63	1.00	1.18	0.11	----
30455	3/4" x 3/4"	1.63	1.00	1.18	0.13	----

MALE END ONLY - SHORT SHANK

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30469	1/4" x 3/4"	1.55	0.88	1.06	0.11	
30471	1/2" x 3/4"	1.55	0.88	1.06	0.11	----
30472	5/8" x 3/4"	1.56	0.88	1.06	0.12	----

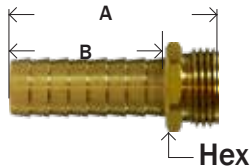
GARDEN HOSE COUPLING SETS - SHORT SHANK W/ HEX NUT

PART #	HOSE BARB	LIST PRICE
30457	1/2"	----
30458	5/8"	----
30459	3/4"	----

FEMALE SWIVEL ONLY - 2" SHANK**•WASHER INCLUDED**

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30505	1/2" x 3/4"	2.55	2.04	1.18	0.13	----
30506	5/8" x 3/4"	2.56	2.04	1.18	0.16	----
30507	3/4" x 3/4"	2.67	2.04	1.18	0.17	----
30508	1" x 1"	2.84	2.03	1.43	0.29	----

GHFL 594

MALE END ONLY - 2" SHANK

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30510	1/2" x 3/4"	2.72	2.04	1.06	0.16	----
30511	5/8" x 3/4"	2.72	2.04	1.06	0.17	----
30512	3/4" x 3/4"	2.72	2.04	1.06	0.20	----
30513	1" x 1"	2.90	2.03	1.37	0.28	----

GHML 593

GARDEN HOSE COUPLING SETS - 2" SHANK

PART #	HOSE X FGH	LIST PRICE
30516	1/2"	----
30517	5/8"	----
30518	3/4"	----

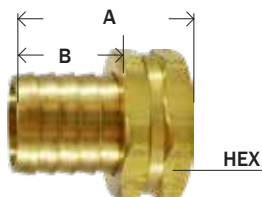
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



NPSM GARDEN HOSE

BRASS FITTINGS

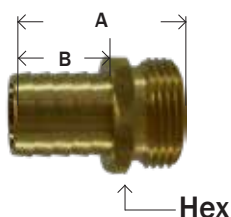
NPSM FEMALE SHORT SHANK



329NPSM

PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30545	1/2	3/4"	1.45	0.88	1.18	----
30546	5/8	3/4"	1.47	0.88	1.18	----
30547	3/4	3/4"	1.47	0.88	1.18	----
30548	1	1"	1.50	1.00	1.50	----

NPSM MALE SHORT SHANK



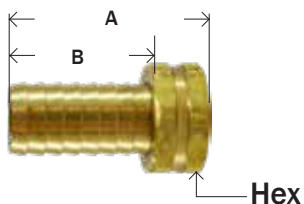
PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30550	1/2	3/4"	1.56	0.88	1.06	----
30551	5/8	3/4"	1.56	0.88	1.06	----
30552	3/4	3/4"	1.56	0.88	1.06	----
30553	1	1"	1.77	0.98	1.30	----

NPSM SHORT SHANK SETS



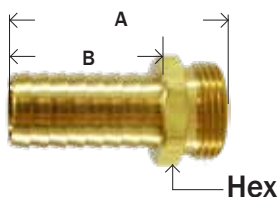
PART #	SIZE	LIST PRICE
30540	1/2"	----
30541	5/8"	----
30542	3/4"	----
30543	1"	----

NPSM FEMALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30565	1/2	1/2"	2.09	1.50	0.94	----
30566	5/8	3/4"	2.09	1.50	1.18	----
30567	3/4	3/4"	2.09	1.50	1.18	----
30568	1	1"	2.12	1.53	1.50	----

NPSM MALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX	LIST PRICE
30570	1/2	1/2"	2.18	1.50	0.87	----
30571	5/8	3/4"	2.18	1.50	1.06	----
30572	3/4	3/4"	2.18	1.50	1.06	----
30573	1	1"	2.32	1.53	1.30	----

NPSM LONG SHANK SETS



PART #	SIZE	LIST PRICE
30560	1/2"	----
30561	5/8"	----
30562	3/4"	----
30563	1"	----

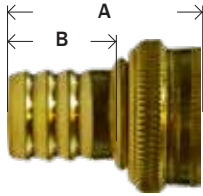
GARDEN HOSE VALVES/ FITTINGS

BRASS FITTINGS

WROUGHT BRASS

WROUGHT BRASS - FEMALE END ONLY

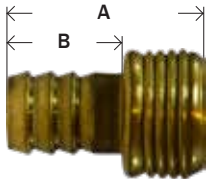
• WASHER INCLUDED



PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	LIST PRICE
30526	5/8" x 3/4"	1.58	0.91	0.05	----
30527	3/4" x 3/4"	1.50	0.84	0.06	----

85L

WROUGHT BRASS COUPLINGS - MALE END ONLY



PART #	HOSE BARB X MGH	A	B	APPROX. WT. LBS.	LIST PRICE
30530	1/2" x 3/4"	1.50	0.88	0.02	----

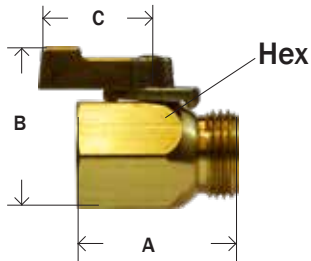
85M

GARDEN HOSE VALVES

ONE WAY BRASS BALL VALVE - FGH X MGH

• 500 PSI • 180°F

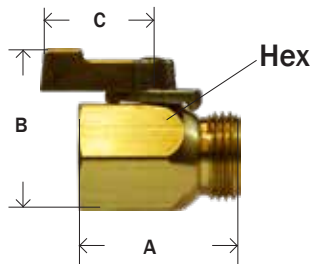
• WASHER INCLUDED



PART #	FGH X MGH	A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
30161	3/4" x 3/4"	1.87	1.89	1.31	1.06	0.42	----

ONE WAY BRASS BALL VALVE - FEMALE PIPE X MGH

• 500 PSI • 180°F



PART #	FEMALE NPTF X MGH	A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
30162	3/4" x 3/4"	1.55	1.89	1.31	1.06	0.42	----

ZINC ALLOY HOSE SHUT-OFF W/ ONE LEVER

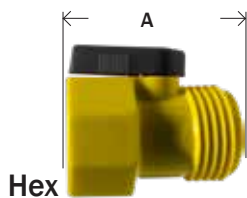
• WASHER INCLUDED



PART #	FGH X MGH	A	APPROX. WT. LBS.	LIST PRICE
30631	3/4" x 3/4"	1.67	0.08	----

PLASTIC GARDEN HOSE VALVE • CYCOLAC BODY & BALL

• WASHER INCLUDED



PART #	FGH X MGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30163	3/4" x 3/4"	1.75	1.25	0.04	----

LA450C

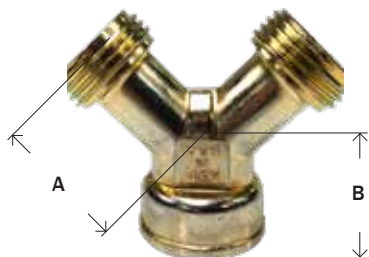
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GARDEN HOSE VALVES

BRASS FITTINGS

ZINC ALLOY HOSE - "Y" CONNECTOR

• WASHER INCLUDED

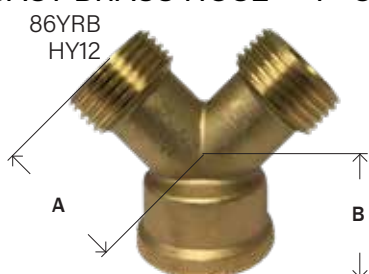


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30141	3/4"	1.70	0.57	1.5	

86Y 21A

CAST BRASS HOSE - "Y" CONNECTOR

• WASHER INCLUDED

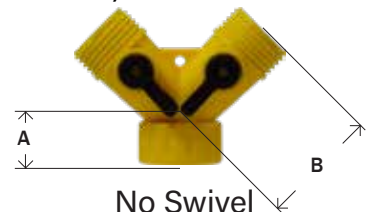


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30140	3/4"	1.40	0.67	0.22	----

86Y 21A

PLASTIC, NON-CORROSIVE, 2-WAY HOSE SHUT-OFF "Y"

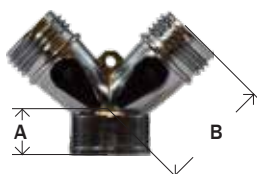
• WASHER INCLUDED



PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30160	3/4"	0.74	1.87	0.08	----

"Y" SHAPE ZINC ALLOY CONNECTOR W/ TWO LEVERS

• WASHER INCLUDED



PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30626	3/4"	0.60	1.66	0.10	----

No Swivel

"Y" SHAPE BRASS CONNECTOR W/ 2-WAY SHUT OFF

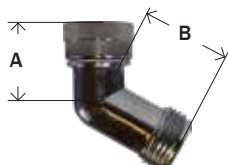
• WASHER INCLUDED



• Brass Levers

PART #	SIZE	DESCRIPTION FGH SWIVEL X MGH(2)	APPROX. WT. LBS.	LIST PRICE
30627	3/4"	3/4 Double Y valve, swivel inlet	0.56	----

ZINC ALLOY SWIVEL HOSE CONNECTOR



PART #	SIZE FGH X MGH	A	B	APPROX. WT. LBS.	LIST PRICE
30629	3/4"	1.31	1.50	0.08	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

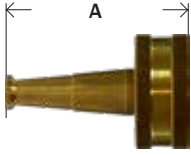
BRASS

GARDEN HOSE NOZZLES

BRASS FITTINGS

2-1/2" BRASS NOZZLE

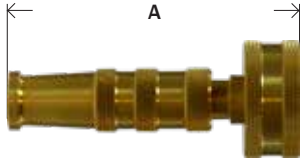
• WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30637	3/4"	2.50	0.14	----

3" CROSSED PATTERN BRASS NOZZLE

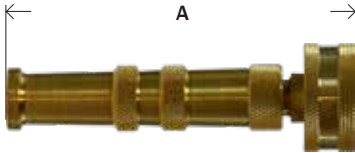
• WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30640	3/4"	2.89	0.25	----

4" CROSSED PATTERN BRASS NOZZLE

• WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30638	3/4"	3.80	0.50	----



• WASHER INCLUDED

Adjustable Spray

Part #	Size	Zinc Alloy spray nozzle with insulated handle soft grip and front thread protector	List Price
30600	5-1/2"		----



• WASHER INCLUDED

Lead Free

Part #	Size	Zinc Alloy spray nozzle	List Price
30620	4-1/4"		----



• WASHER INCLUDED

Lead Free
Adjustable Spray

Part #	Size	Zinc Alloy spray nozzle with easily adjustable brass head and plastic grip	List Price
30609	5-1/4"		----



• WASHER INCLUDED

Part #	Size	Plastic spray nozzle	List Price
30630	4-1/2"		----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

SAE 45° FLARE



Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1-1/16-14

•Typical Application

LP and natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

•Working Pressure Ranges

Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73°F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035

•Vibration

Good resistance - use long nut when greater vibration resistance is required.

•Temperature Range

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

•Used With

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

• Tolerance

+/- .03 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

•Conformance

Meets specifications and standards of ASA, ASME, SAE and MS (Military standards).

Assembly Instructions

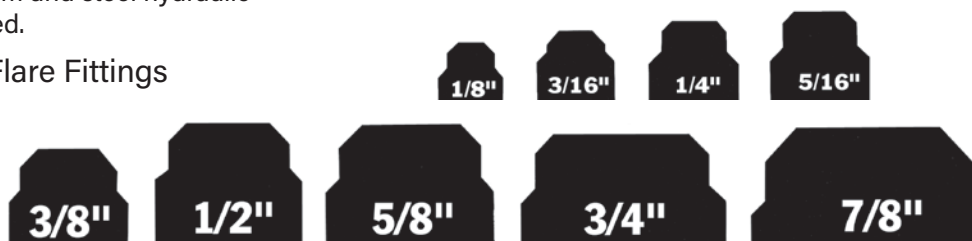
- 1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
- 2- Slide nut on tube. Threaded end "A" of nut must face out.
- 3- Flare end of tube with a 45° flaring tool.
 - a-Measure flare diameter.
 - b- Examine flare for excessive thin out.
- 4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.
- 5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.

Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.



• See Lead Free Flare Fittings page 163-164

Actual O.D. of Flare Fittings



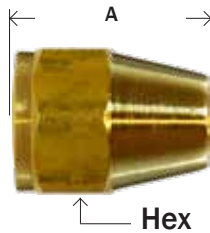
SAE 45° FLARE**BRASS FITTINGS****SHORT ROD NUT**

SAE# 010110



PART #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
10013	1/8"	5/16-24	0.50	0.37	0.01	----
10014	3/16"	3/8-24	0.62	0.43	0.02	----
10015	1/4"	7/16-20	0.75	0.56	0.03	----
10015L	1/4"	7/16-20	0.75	0.50	0.03	----
10016	5/16"	1/2-20	0.88	0.62	0.04	----
10017L	3/8"	5/8-18	0.77	0.75	0.05	----
10017	3/8"	5/8-18	1.00	0.75	0.04	----
10018	7/16"	11/16-16	1.06	0.81	0.06	----
10019L	1/2"	3/4-16	0.93	0.87	0.06	----
10019	1/2"	3/4-16	1.12	0.87	0.09	----
10020L	5/8"	7/8-14	1.08	1.00	0.10	----
10020	5/8"	7/8-14	1.31	1.06	0.15	----
10021	3/4"	1-1/16-14	1.50	1.25	0.24	----
10022	7/8"	1-1/4-12	1.62	1.50	0.36	----
10026	1"	1-3/8-12	1.81	1.62	0.44	----

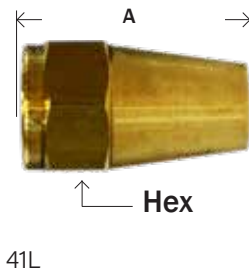
20910 41FS 1110 N1 41FX 441S 'L'

REDUCING SHORT ROD NUT

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10023	3/8" x 1/4"	0.74	0.81	0.06	----
10024	1/2" x 3/8"	0.86	0.94	0.10	----
10025	5/8" x 1/2"	0.99	1.06	0.12	----

LONG ROD NUT

SAE# 010111



PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10001	1/8"	0.75	0.37	0.01	----
10002	3/16"	0.81	0.43	0.02	----
10003L	1/4"	0.98	0.55	0.03	----
10003	1/4"	0.94	0.56	0.03	----
10004	5/16"	1.12	0.62	0.04	----
10005	3/8"	1.31	0.75	0.06	----
10006	1/2"	1.62	0.87	0.12	----
10007	5/8"	1.88	1.06	0.20	----
10008	3/4"	2.19	1.25	0.34	----

41FL N2 241 441 41



"L" 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.

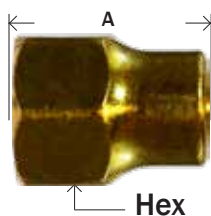
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

LONG FORGED NUT

SAE# 010167



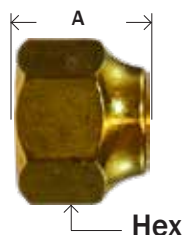
640L
641L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10028	1/4"	0.94	0.62	0.05	----
10030	3/8"	1.06	0.81	0.08	----
10031	1/2"	1.19	0.94	0.12	----
10032	5/8"	1.44	1.06	0.26	----
10033	3/4"	1.75	1.31	0.35	----

41FF 39 N4 14FL 641

SHORT FORGED NUT

SAE# 010166

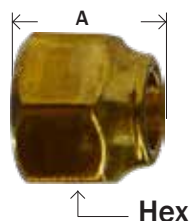


641S
6401S

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10038	3/16"	0.56	0.50	0.02	----
10039	1/4"	0.60	0.62	0.04	----
10040	5/16"	0.66	0.69	0.04	----
10041	3/8"	0.70	0.81	0.06	----
10042	1/2"	0.82	0.94	0.08	----
10043	5/8"	0.95	1.06	0.12	----
10044	3/4"	1.16	1.31	0.22	----
10045	7/8"	1.18	1.38	0.30	----

14FS 41FFS 40 641-S 1116 NS4

EXTRA HEAVY SHORT FORGED NUT



641SH
6401SXH

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10046	1/4"	0.63	0.75	0.04	----
10047	3/8"	0.72	0.88	0.06	----
10048	1/2"	0.88	1.00	0.08	----
10049	5/8"	0.98	1.12	0.12	----

NSA

FORGED REDUCING NUT



660
662S

PART #	FEMALE FLARE X OD	A	HEX	APPROX. WT. LBS.	LIST PRICE
10051	5/16" x 1/4"	0.66	0.75	0.06	----
10052	3/8" x 1/4"	0.72	0.81	0.06	----
10053	3/8" x 5/16"	0.72	0.81	0.08	----
10054	1/2" x 3/8"	0.81	0.94	0.08	----
10055	5/8" x 3/8"	0.96	1.12	0.15	----
10056	5/8" x 1/2"	0.97	1.06	0.12	----
10058	3/4" x 5/8"	1.17	1.31	0.30	----

NSR4 14FS 41FRS 40R 662-S

SAE 45° FLARE**BRASS FITTINGS****FLARED PLUG**

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10062	1/8"	0.53	0.34	0.01	
10063	3/16"	0.59	0.50	0.02	----
10064 *	1/4"	0.69	0.43	0.02	----
10065 *	5/16"	0.78	0.50	0.04	----
10066 *	3/8"	0.88	0.62	0.06	----
10067	1/2"	1.06	0.75	0.10	----
10068	5/8"	1.19	0.87	0.14	----
10069	3/4"	1.32	1.06	0.22	----

* Available in Stainless Steel. Add SS to the part#

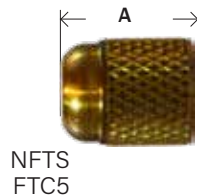
58 639F PF 57 P2 2229 439

FLARED CAP

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10073	1/8"	0.46	0.37	0.02	
10074	3/16"	0.47	0.50	0.02	----
10075 *	1/4"	0.48	0.50	0.02	----
10075EH	1/4"	0.54	0.57	0.02	
10076	5/16"	0.62	0.62	0.04	----
10077 *	3/8"	0.58	0.75	0.03	----
10078	1/2"	0.69	0.81	0.14	----
10079	5/8"	0.81	0.94	0.20	----
10080	3/4"	1.17	1.37	0.30	----

* Available in Stainless Steel. Add SS to the part#

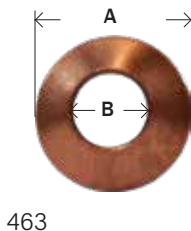
640F 41FC 56 N5 2129 54 440

FINGER TIGHTENING CAP

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10081	1/4"	0.62	0.02	----
10082	3/8"	0.70	0.03	

- Neoprene
- O-Ring Included

NFT5

COPPER GASKET**SAE# 010113**

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
10084	3/16"	0.31	0.12	0.01	----
10085	1/4"	0.36	0.19	0.01	----
10086	5/16"	0.42	0.22	0.01	----
10087	3/8"	0.55	0.28	0.01	----
10088	1/2"	0.66	0.41	0.01	----
10089	5/8"	0.77	0.50	0.01	----
10090	3/4"	0.95	0.62	0.01	----

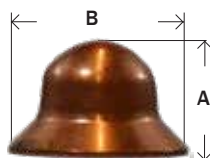
B2 2GF 6251 FG 157 59 46

SAE 45° FLARE

BRASS FITTINGS

COPPER BONNET

SAE# 010114

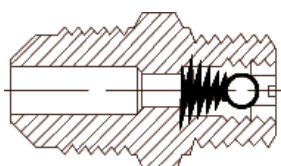
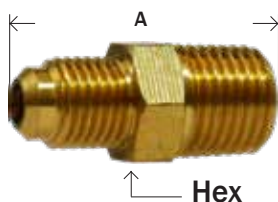


464

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
10094	3/16"	0.16	0.31	0.01	----
10095	1/4"	0.22	0.36	0.01	----
10097	3/8"	0.34	0.55	0.01	----
10098	1/2"	0.41	0.66	0.01	----
10099	5/8"	0.44	0.77	0.01	----
10100	3/4"	0.56	0.95	0.01	----

B1 3GF 64C 57 156 FB 695 464

MALE BALL CHECK CONNECTOR



43
403

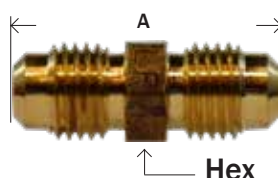
PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10131*	1/4" x 1/8"	1.06	0.43		----
10256WC	1/4" x 1/4"	1.24	0.6	0.04	----
10133*	3/8" x 1/4"	1.31	0.62	0.08	----
10132	5/16" x 1/8"	1.14	0.50	0.04	

43A

* Note: Ball & Spring position may be reversed to change flow/check position. Min working pressure 3 PSI.

UNION

SAE# 010101



42
402

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10104	1/8"	0.91	0.31	0.02	----
10105	3/16"	1.06	0.37	0.02	----
10106L	1/4"	1.19	0.43	0.03	----
10106 *	1/4"	1.19	0.43	0.03	----
10106EH	1/4"	1.55	0.56	0.05	
10107	5/16"	1.34	0.50	0.05	----
10108L	3/8"	1.50	0.62	0.09	----
10108 *	3/8"	1.50	0.62	0.09	----
10109L	1/2"	1.67	0.75	0.12	----
10109	1/2"	1.81	0.75	0.14	----
10110L	5/8"	2.00	0.87	0.20	----
10110	5/8"	2.12	0.87	0.20	----
10111	3/4"	2.44	1.06	0.35	----
10112	7/8"	2.72	1.25	0.52	----

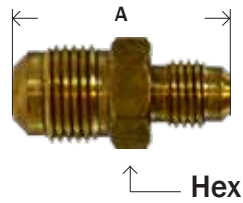
* Available in Stainless Steel. Add SS to the part#

42F U2



"L" means light pattern.

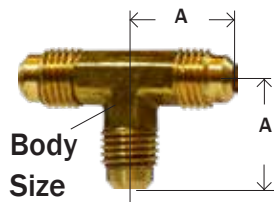
-These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

SAE 45° FLARE**BRASS FITTINGS****REDUCING UNION**

42R
506

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10115	1/4" x 1/8"	1.11	0.44	0.03	----
10116	1/4" x 3/16"	1.12	0.44	0.03	----
10117	5/16" x 1/4"	1.28	0.50	0.04	----
10118	3/8" x 1/4"	1.38	0.62	0.06	----
10119	3/8" x 5/16"	1.44	0.62	0.08	----
10120	1/2" x 1/4"	1.53	0.75	0.10	----
10121	1/2" x 3/8"	1.69	0.75	0.10	----
10122	5/8" x 3/8"	1.88	0.87	0.17	----
10123	5/8" x 1/2"	1.87	0.87	0.14	----
10126	3/4" x 1/2"	2.18	1.06	0.26	----
10127	3/4" x 5/8"	2.20	1.06	0.27	----

656F UR2 42-R

UNION TEE

Forged Tee

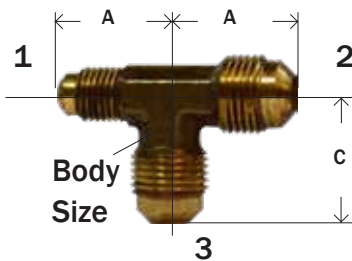
44F
404
244

SAE# 010401

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10157	1/8"	0.67	0.36	0.04	----
10158	3/16"	0.75	0.36	0.06	----
10159 **	1/4"	0.78	0.36	0.06	----
10160 **	5/16"	0.91	0.44	0.10	----
10161 **	3/8"	1.00	0.44	0.12	----
10162	1/2"	1.16	0.59	0.19	----
10163	5/8"	1.41	0.69	0.30	----
10164	3/4"	1.64	0.88	0.53	----
10165	7/8"	1.75	1.25	0.93	----

** Available in Stainless Steel. Add SS to the part#

244F T2 144F

REDUCING TEE 1 X 2 X 3

44FR
509

PART #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10	----
10171	5/16" x 5/16" x 1/4"	0.94	0.94	0.44	0.12	----
10172	3/8" x 1/4" x 1/4"	0.91	1.00	0.44	0.10	----
10173	3/8" x 1/4" x 3/8"	1.00	0.91	0.44	0.12	----
10174	3/8" x 3/8" x 1/4"	1.00	0.88	0.44	0.11	----
10175	3/8" x 3/8" x 1/2"	1.00	1.19	0.59	0.14	----
10176	3/8" x 3/8" x 5/8"	1.16	1.44	0.69	0.16	----
10178	1/2" x 3/8" x 3/8"	1.16	1.12	0.59	0.18	----
10179	1/2" x 3/8" x 1/2"	1.16	1.09	0.59	0.18	----
10180	1/2" x 1/2" x 1/4"	1.16	0.97	0.59	0.18	----
10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19	----
10182	1/2" x 1/2" x 5/8"	1.28	1.41	0.69	0.28	----
10187	5/8" x 1/2" x 5/8"	1.44	1.33	0.69	0.27	----
10188	5/8" x 5/8" x 3/8"	1.38	1.16	0.69	0.30	----
10189	5/8" x 5/8" x 1/2"	1.38	1.28	0.69	0.28	----

144F TR2 659F 684F 44R

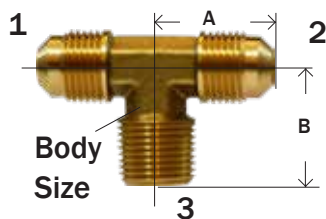
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SAE 45° FLARE

BRASS FITTINGS

MALE BRANCH TEE

SAE# 010425

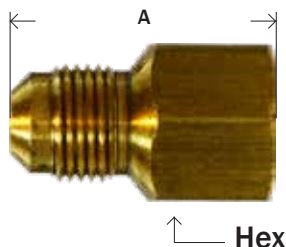


Forged Tee

45R
245
405

FEMALE ADAPTER

SAE# 010103



46
246
406

▪ More sizes available.



"L" means light pat-

-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

PART #	MALE FLARE X MALE NPT (1&2) X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10203	3/16" x 1/8"	0.75	0.75	0.36	0.10	----
10204	1/4" x 1/8"	0.78	0.75	0.36	0.05	----
10205	1/4" x 1/4"	0.88	0.88	0.44	0.08	----
10206	1/4" x 3/8"	0.92	1.00	0.47	0.10	----
10207	5/16" x 1/8"	0.89	0.78	0.44	0.08	----
10208	5/16" x 1/4"	0.94	0.94	0.44	0.08	----
10209	3/8" x 1/8"	1.00	0.91	0.44	0.14	----
10210	3/8" x 1/4"	1.00	0.94	0.44	0.12	----
10211 **	3/8" x 3/8"	1.00	1.00	0.47	0.13	----
10212 **	3/8" x 1/2"	1.12	1.22	0.69	0.22	----
10213	1/2" x 1/4"	1.16	1.00	0.59	0.20	----
10214	1/2" x 3/8"	1.16	1.14	0.59	0.19	----
10215	1/2" x 1/2"	1.22	1.22	0.69	0.24	----
10216	1/2" x 3/4"	1.38	1.41	0.88	0.22	----
10217	5/8" x 3/8"	1.38	1.25	0.69	0.24	----
10218	5/8" x 1/2"	1.41	1.31	0.69	0.29	----
10219	5/8" x 3/4"	1.41	1.41	0.88	0.36	----
10220	3/4" x 1/2"	1.63	1.59	0.88	0.49	----

** Available in Stainless Steel. Add SS to the part#

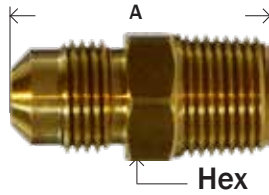
T1 145F 45

PART #	MALE FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10227	3/16" x 1/8"	0.97	0.56	0.03	----
10228L	1/4" x 1/8"	1.03	0.56	0.03	----
10228	1/4" x 1/8"	1.03	0.56	0.04	----
10229L	1/4" x 1/4"	1.06	0.68	0.06	----
10229	1/4" x 1/4"	1.23	0.68	0.07	----
10230	1/4" x 3/8"	1.18	0.81	0.08	----
10231	1/4" x 1/2"	1.31	0.94	0.06	----
10232	5/16" x 1/8"	1.06	0.56	0.05	----
10233	5/16" x 1/4"	1.28	0.68	0.08	----
10234	3/8" x 1/8"	1.09	0.62	0.08	----
10235L	3/8" x 1/4"	1.25	0.68	0.08	----
10235	3/8" x 1/4"	1.31	0.81	0.08	----
10236L	3/8" x 3/8"	1.25	0.81	0.08	----
10236	3/8" x 3/8"	1.25	0.81	0.10	----
10237L	3/8" x 1/2"	1.31	0.94	0.08	----
10237	3/8" x 1/2"	1.60	1.00	0.16	----
10238	3/8" x 3/4"	1.41	1.18	0.11	----
10239	1/2" x 1/4"	1.37	0.75	0.10	----
10240L	1/2" x 3/8"	1.38	0.81	0.12	----
10240	1/2" x 3/8"	1.50	0.81	0.14	----
10241L	1/2" x 1/2"	1.42	0.94	0.10	----
10241	1/2" x 1/2"	1.75	1.00	0.12	----
10242L	1/2" x 3/4"	1.40	1.10	0.16	----
10242	1/2" x 3/4"	1.60	1.12	0.16	----
10243	5/8" x 3/8"	1.24	0.87	0.12	----
10244L	5/8" x 1/2"	1.51	0.86	0.15	----
10244	5/8" x 1/2"	1.62	0.94	0.12	----
10245	5/8" x 3/4"	1.65	1.12	0.17	----
10246	3/4" x 1/2"	1.74	1.18	0.32	----
10247	3/4" x 3/4"	1.75	1.18	0.22	----
10248	7/8" x 3/4"	1.94	1.31	0.26	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



46 U3

SAE 45° FLARE**BRASS FITTINGS****MALE ADAPTER**

48
248
408

SAE# 010102

PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10253	1/8" x 1/8"	0.92	0.43	0.02	----
10254	3/16" x 1/8"	1.00	0.43	0.03	----
10255L	1/4" x 1/8"	1.06	0.43	0.03	----
10255 *	1/4" x 1/8"	1.06	0.43	0.04	----
10255EH	1/4" x 1/8"	1.06	0.44	0.03	----
10256L	1/4" x 1/4"	1.15	0.56	0.03	----
10256 *	1/4" x 1/4"	1.25	0.56	0.04	----
10256SS	1/4" x 1/4"				
10257 *	1/4" x 3/8"	1.31	0.68	0.06	----
10258	1/4" x 1/2"	1.44	0.87	0.11	----
10259L	5/16" x 1/8"	1.15	0.50	0.04	----
10259	5/16" x 1/8"	1.16	0.50	0.04	----
10260L	5/16" x 1/4"	1.31	0.56	0.06	----
10260	5/16" x 1/4"	1.34	0.56	0.06	----
10261 *	5/16" x 3/8"	1.38	0.68	0.08	----
10262	3/8" x 1/8"	1.25	0.62	0.07	----
10263L	3/8" x 1/4"	1.31	0.62	0.06	----
10263 *	3/8" x 1/4"	1.44	0.62	0.08	----
10263SS	3/8" x 1/4"				
10264L	3/8" x 3/8"	1.37	0.68	0.09	----
10264 *	3/8" x 3/8"	1.42	0.68	0.09	----
10264SS	3/8" x 3/8"				
10265L	3/8" x 1/2"	1.44	0.89	0.12	----
10265 *	3/8" x 1/2"	1.69	0.87	0.14	----
10266	3/8" x 3/4"	1.81	1.06	0.18	----
10267	1/2" x 1/4"	1.60	0.75	0.11	----
10268L	1/2" x 3/8"	1.46	0.75	0.10	----
10268	1/2" x 3/8"	1.62	0.75	0.12	----
10269L	1/2" x 1/2"	1.62	0.87	0.13	----
10269	1/2" x 1/2"	1.79	0.87	0.15	----
10270	1/2" x 3/4"	1.75	1.06	0.22	----
10271	5/8" x 1/4"	1.81	0.87	0.14	----
10272L	5/8" x 3/8"	1.67	0.87	0.14	----
10272	5/8" x 3/8"	1.81	0.87	0.18	----
10273L	5/8" x 1/2"	1.80	0.87	0.11	----
10273	5/8" x 1/2"	2.00	0.87	0.20	----
10274	5/8" x 3/4"	1.85	1.06	0.21	----
10275	3/4" x 1/2"	2.19	1.06	0.28	----
10276	3/4" x 3/4"	2.08	1.06	0.28	----
10277	7/8" x 1/2"	2.22	1.25	0.52	----
10278	7/8" x 3/4"	2.35	1.25	0.41	----
10279	1" x 3/4"	2.44	1.43	0.53	----
10280	1" x 1"	2.44	1.43	0.53	----

* Available in Stainless Steel. Add SS to the part#

U1 48

**"L" 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.



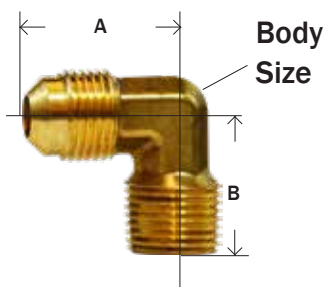
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

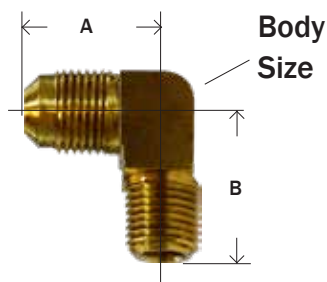
BRASS FITTINGS

90° MALE ELBOW

SAE# 010202



Forged Elbow



Barstock Elbow

49
249
409

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10283	1/8" x 1/8"	0.63	0.73	0.37	0.04	----
10283B*	1/8" x 1/8"	0.62	0.69	0.43	0.04	----
10284	3/16" x 1/8"	0.75	0.75	0.38	0.04	----
10284B*	3/16" x 1/8"	0.75	0.75	0.43	0.06	----
10285	3/16" x 1/4"	0.81	0.88	0.44	0.08	----
10286	1/4" x 1/8"	0.84	0.78	0.38	0.04	----
10286L	1/4" x 1/8"	0.96	0.80	0.37	0.04	----
10286B*	1/4" x 1/8"	0.81	0.78	0.47	0.05	----
10287 **	1/4" x 1/4"	0.81	0.88	0.44	0.05	----
10287B*	1/4" x 1/4"	0.91	0.93	0.59	0.08	----
10288 **	1/4" x 3/8"	0.91	0.91	0.47	0.08	----
10289	1/4" x 1/2"	1.03	1.09	0.59	0.10	----
10290	5/16" x 1/8"	0.91	0.88	0.44	0.06	----
10290B*	5/16" x 1/8"	0.91	0.78	0.52	0.06	----
10291	5/16" x 1/4"	0.98	0.96	0.44	0.08	----
10291B*	5/16" x 1/4"	0.95	0.92	0.62	0.08	----
10292	5/16" x 3/8"	1.06	1.09	0.59	0.08	----
10293	3/8" x 1/8"	1.00	0.91	0.53	0.08	----
10293B*	3/8" x 1/8"	1.03	0.91	0.65	0.08	----
10294	3/8" x 1/4"	1.01	0.89	0.48	0.08	----
10294B*	3/8" x 1/4"	0.97	1.04	0.68	0.11	----
10295 **	3/8" x 3/8"	1.00	0.88	0.47	0.10	----
10295L	3/8" x 3/8"	0.95	0.89	0.46	0.11	----
10295B*	3/8" x 3/8"	1.06	1.09	0.69	0.12	----
10296 **	3/8" x 1/2"	1.10	1.09	0.59	0.12	----
10297	3/8" x 3/4"	1.25	1.31	0.81	0.12	----
10298	1/2" x 1/4"	1.19	1.00	0.59	0.12	----
10298B*	1/2" x 1/4"	1.22	1.19	0.81	0.12	----
10299	1/2" x 3/8"	1.10	1.00	0.59	0.13	----
10299B*	1/2" x 3/8"	1.22	1.12	0.77	0.18	----
10300	1/2" x 1/2"	1.16	1.13	0.59	0.14	----
10300B*	1/2" x 1/2"	1.26	1.26	0.94	0.26	----
10301	1/2" x 3/4"	1.42	1.25	0.81	0.24	----
10311	5/8" x 1/4"	1.34	1.13	0.72	0.28	----
10302	5/8" x 3/8"	1.35	1.22	0.72	0.20	----
10302B*	5/8" x 3/8"	1.41	1.25	0.94	0.20	----
10303	5/8" x 1/2"	1.35	1.22	0.72	0.20	----
10303L	5/8" x 1/2"	1.29	1.11	0.70	0.20	----
10303B*	5/8" x 1/2"	1.41	1.38	0.94	0.20	----
10304	5/8" x 3/4"	1.44	1.31	0.81	0.25	----
10305	3/4" x 1/2"	1.67	1.50	0.88	0.34	----
10306	3/4" x 3/4"	1.67	1.63	0.88	0.30	----
10306B*	3/4" x 3/4"	1.60	1.62	0.91	0.32	----
10307	7/8" x 3/4"	1.75	1.68	1.00	0.44	----
10308	1" x 3/4"	1.94	1.69	1.31	0.75	----
10309	1" x 1"	1.94	1.75	1.25	0.78	----

* Barstock

** Available in Stainless Steel. Add SS to the part#

249F 49 E1 149F

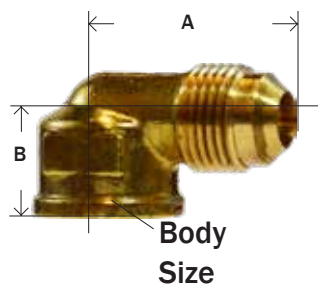
Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

SAE 45° FLARE

BRASS FITTINGS

90° FEMALE ELBOW

Forged Elbow



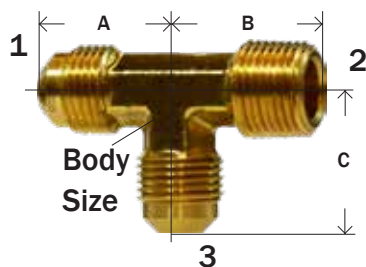
50F
250
500

SAE# 010203

PART #	MALE FLARE X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10312	3/16" x 1/8"	0.81	0.44	0.56	0.05	----
10313	1/4" x 1/8"	0.90	0.46	0.56	0.06	----
10313B*	1/4" x 1/8"	0.95	0.46	0.56	0.06	----
10314	1/4" x 1/4"	0.97	0.59	0.75	0.08	----
10314B*	1/4" x 1/4"	0.95	0.66	0.75	0.08	----
10315	1/4" x 3/8"	1.03	0.57	0.81	0.09	----
10333	1/4" x 1/2"	1.08	0.66	1.00	0.12	----
10316	5/16" x 1/8"	0.94	0.88	0.45	0.08	----
10306B*	5/16" x 1/8"	0.94	0.87	0.56	0.07	----
10317	5/16" x 1/4"	1.03	0.58	0.75	0.06	----
10318	3/8" x 1/8"	1.00	0.88	0.47	0.10	----
10319	3/8" x 1/4"	1.06	0.59	0.75	0.09	----
10319B*	3/8" x 1/4"	1.15	0.73	0.68	0.14	----
10320	3/8" x 3/8"	1.06	0.57	0.81	0.10	----
10320B*	3/8" x 3/8"	1.10	0.75	0.82	0.16	----
10321	3/8" x 1/2"	1.16	0.66	1.00	0.14	----
10321L	3/8" x 1/2"	1.21	0.42	0.96	0.13	----
10322	3/8" x 3/4"	1.28	0.72	1.25	0.12	----
10323	1/2" x 1/4"	1.25	0.70	0.88	0.13	----
10324	1/2" x 3/8"	1.25	0.70	0.88	0.12	----
10324B*	1/2" x 3/8"	1.26	0.75	0.88	0.16	----
10325	1/2" x 1/2"	1.29	0.72	1.00	0.18	----
10325L	1/2" x 1/2"	1.24	0.71	0.98	0.17	----
10326	1/2" x 3/4"	1.41	0.72	1.25	0.20	----
10327	5/8" x 3/8"	1.35	1.22	0.72	0.22	----
10328	5/8" x 1/2"	1.38	0.75	1.00	0.20	----
10329	5/8" x 3/4"	1.50	0.76	1.25	0.28	----

* Barstock

E3 50 150F

FORGED MALE RUN TEE

51F
501

PART #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	AP- PROX. WT. LBS.	LIST PRICE
10361	3/16" x 5/16" x 1/8"	0.87	0.78	0.97	0.44	0.08	----
10343	3/16" x 1/8"	0.75	0.75	0.75	0.37	0.05	----
10344	1/4" x 1/8"	0.78	0.75	0.78	0.37	0.06	----
10344B*	1/4" x 1/8"	0.90	0.76	0.86	0.37	0.07	----
10345	1/4" x 1/4"	0.88	0.88	0.88	0.44	0.08	----
10347	5/16" x 1/8"	0.88	0.80	0.88	0.44	0.08	----
10348	5/16" x 1/4"	0.94	0.94	0.94	0.44	0.08	----
10350	3/8" x 1/4"	1.00	0.94	1.00	0.44	0.12	----
10351	3/8" x 3/8"	1.00	1.00	1.00	0.47	0.10	----
10340	3/8" x 1/2" x 3/8"	1.09	1.09	1.16	0.59	0.18	----
10352	3/8" x 1/2"	1.12	1.22	1.12	0.69	0.12	----
10353	1/2" x 3/8" x 1/2"	1.22	1.22	1.15	0.69	0.22	----
10354	1/2" x 3/8"	1.16	1.09	1.16	0.59	0.18	----
10355	1/2" x 1/2"	1.22	1.22	1.22	0.69	0.22	----
10357	5/8" x 1/2"	1.41	1.31	1.41	0.69	0.28	----
10359	3/4" x 1/2"	1.63	1.59	1.63	0.88	0.48	----
10360	3/4" x 3/4"	1.62	1.44	1.62	0.88	0.48	----

Dimension data can change without notice. Please check when dimensions are critical.

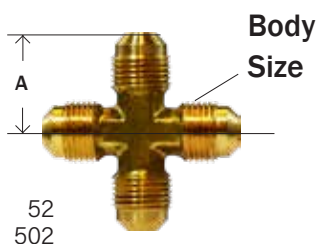
T3 151F 51

SAE 45° FLARE

BRASS FITTINGS

FORGED FLARE CROSS

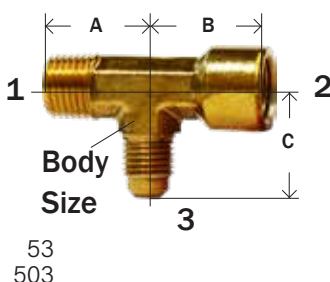
SAE# 010501



PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10373	1/4"	0.88	0.44	0.10	----
10374	5/16"	0.92	0.44	0.10	----
10375	3/8"	1.00	0.44	0.16	----
10376	1/2"	1.16	0.59	0.24	----

455 C1 147F 52

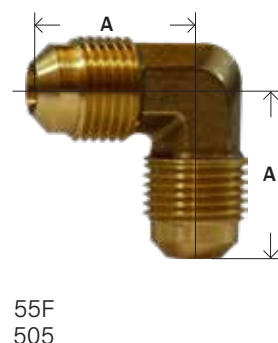
FORGED ADAPTER TEE / SERVICE TEE



PART #	SIZE 1 X 2 X 3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10382	1/8" x 1/8" x 1/4"	0.72	0.53	0.80	0.47	0.08	----

T17 53

FORGED 90° FLARE ELBOW

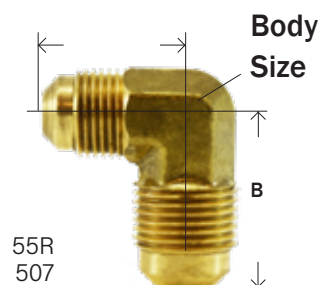


PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10404	1/8"	0.64	0.04	----
10405	3/16"	0.75	0.06	----
10406	1/4"	0.81	0.08	----
10406B*	1/4"	0.89	0.04	----
10407	5/16"	0.91	0.10	----
10408	3/8"	1.00	0.10	----
10409	1/2"	1.16	0.14	----
10409B*	1/2"	1.23	0.22	----
10410	5/8"	1.41	0.22	----
10411	3/4"	1.66	0.68	----
10412	7/8"	1.81	0.82	----

* Barstock

E2 155F

FORGED REDUCING ELBOW



PART #	MALE FLARE X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10416	3/8" x 1/4"	1.00	0.88	0.47	0.08	----
10419	1/2" x 3/8"	1.19	1.02	0.59	0.14	----
10421	5/8" x 1/2"	1.34	1.23	0.72	0.21	----

ER2 657F 55R

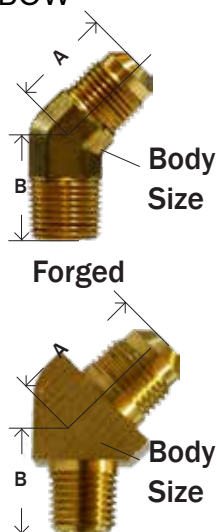
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

45° ELBOW

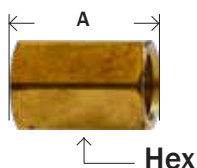
SAE# 010302

54
4945
40945

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10448	1/4" x 1/8"	0.67	0.64	0.41	0.04	----
10448B*	1/4" x 1/8"	0.67	0.64	0.44	0.04	----
10449	1/4" x 1/4"	0.75	0.86	0.53	0.07	----
10450	5/16" x 1/8"	0.78	0.64	0.53	0.06	----
10451	5/16" x 1/4"	0.81	0.86	0.53	0.07	----
10452	3/8" x 1/4"	0.91	0.86	0.53	0.09	----
10452B*	3/8" x 1/4"	0.89	0.86	0.64	0.12	----
10453	3/8" x 3/8"	0.93	0.94	0.59	0.11	----
10454	3/8" x 1/2"	0.99	1.17	0.75	0.19	----
10455	1/2" x 3/8"	1.07	0.88	0.59	0.12	----
10455B*	1/2" x 3/8"	1.06	0.94	0.76	0.18	----
10456	1/2" x 1/2"	1.12	1.18	0.75	0.20	----
10460	5/8" x 3/8"	1.13	0.95	0.81	0.22	----
10457	5/8" x 1/2"	1.12	1.17	0.78	0.18	----
10458	3/4" x 1/2"	1.28	1.16	0.88	0.26	----

* Barstock

E145 54 159F 654F 59FF 254 47 4945

FEMALE 45° FLARE FITTINGS**UNION**600
600F

Hex

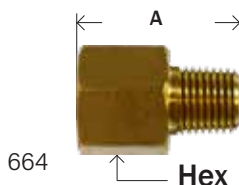
SAE# 010107 • Use with Copper Gasket

PART #	FEMALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10135	1/4"	1.00	0.62	0.06	----
10136	3/8"	1.25	0.81	0.14	----
10137	1/2"	1.43	0.94	0.18	----
10138	5/8"	1.69	1.07	0.24	----
10139	3/4"	2.00	1.31	0.42	----

2310 U4 660HD 32

FEMALE FLARE ADAPTER

SAE# 010106



664

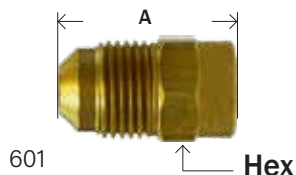
Hex

PART #	FEMALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10440	1/4" x 1/8"	0.91	0.62	0.05	----
10441	1/4" x 1/4"	1.01	0.62	0.06	----
10442	3/8" x 1/4"	1.28	0.81	0.10	----
10438	3/8" x 1/2"				
10443	1/2" x 3/8"	1.36	0.94	0.14	----
10444	1/2" x 1/2"	1.46	0.94	0.14	----
10439	5/8" x 1/2"				

U5 664FHD 33 48-FF

FLARE REDUCER

SAE# 010105



601

Hex

PART #	MALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10462	1/4" x 3/8"	1.22	0.81	0.10	----
10461	1/4" x 1/2"	1.36	0.94	0.14	----
10463 *	3/8" x 1/4"	1.12	0.62	0.06	----
10464	3/8" x 1/2"	1.44	0.94	0.14	----
10473	3/8" x 5/8"	1.63	1.12	0.16	----
10467	1/2" x 3/8"	1.41	0.81	0.13	----
10468	1/2" x 5/8"	1.68	1.06	0.20	----
10469	5/8" x 1/2"	1.63	1.00	0.17	----
10470	5/8" x 3/4"	1.97	1.31	0.31	----

• More sizes available

* Available in Stainless Steel. Add SS to the part#

UR3 661FHD 227 46-FF

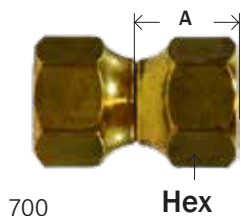
SAE 45° FLARE

BRASS FITTINGS

BRASS FLARE SWIVEL FITTINGS

FORGED SWIVEL

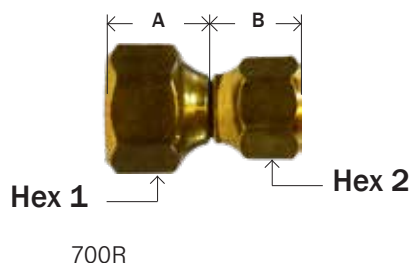
SAE# 010108



PART #	FEMALE FLARE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10481	1/4"	0.59	0.62	0.04	----
10482	5/16"	0.62	0.68	0.06	----
10483	3/8"	0.69	0.81	0.10	----
10483L	3/8"	0.63	0.80		----
10484	1/2"	0.81	0.94	0.16	----
10484L	1/2"	0.82	0.92		----
10485	5/8"	0.94	1.06	0.24	----
10486	3/4"	1.12	1.31	0.34	----

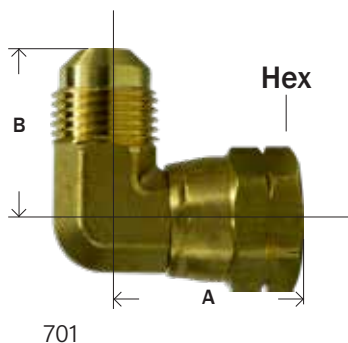
1350 US4 14FSV 34

REDUCING SWIVELS



PART #	FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
10487	3/8" x 1/4"	0.72	0.60	0.81	0.62	0.08	----
10488	1/2" x 3/8"	0.84	0.70	0.94	0.81	0.12	----
10489	5/8" x 1/2"	0.98	0.82	1.03	0.94	0.22	----

FORGED SWIVEL ELBOWS



PART #	MALE FLARE X FEMALE FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
10493	1/4"	0.93	0.86	.563	0.12	----
10494	3/8"	1.13	1.1	.75	0.20	----
10495	1/2"	1.29	1.20	.88	0.25	----
10496	5/8"	1.50	1.30	1.00	0.37	----
10497	3/4"	1.83	1.60	1.25	0.54	----

ES4

FLARE SWEAT FITTINGS



PART #	FLARE X SWEAT	LIST PRICE
10600	1/4" x 1/4"	----
10602	1/4" x 3/8"	----
10620	3/8" x 1/4"	----
10612	3/8" x 3/8"	----
10613	3/8" x 1/2"	----
10621	1/2" x 1/2"	----
10611	1/2" x 5/8"	----
10614	5/8" x 5/8"	----
10622	5/8" x 7/8"	----
10615	3/4" x 3/4"	----
10616	3/4" x 7/8"	----
10617	7/8" x 7/8"	----
10618	1" x 1-1/8"	----
10619	1-1/8" x 1-1/8"	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPACE HEATER/ GAS RANGE FITTINGS**BRASS FITTINGS****SPACE HEATER FITTINGS****9/16-24 FINE THREAD FLARE NUT**

#M-82SH

41FT
800

PART #	SIZE	LIST PRICE
14001	3/8	----

MALE ADAPTER

#M-83SH



PART #	SIZE	LIST PRICE
14016	3/8 x 3/8	----
14017	3/8 x 1/2	----

FEMALE ADAPTER

#M-80SH

46FT
805

PART #	SIZE	LIST PRICE
14018	3/8 x 3/8	----
14025	3/8 x 1/2	----

UNION

PART #	SIZE	LIST PRICE
14011	3/8	----

BRASS GAS RANGE FITTINGS**BRASS MALE ADAPTERS
15/16-16 FLARE THREAD**45RG
408RC

PART #	MALE FLARE X MALE NPTF	LIST PRICE
35130	3/8" x 3/8"(1/8 Tap)	----
35133	3/8" x 3/8"(1/4 Tap)	----
35131	3/8" x 1/2"(3/8 Tap)	----
35132	1/2" x 1/2" (3/8" FIP TAP)	----
35134	15/16" x 1/2"	----

BRASS FEMALE ADAPTERS

PART #	FLARE X FIP	LIST PRICE
35136	15/16" x 1/2"	----

DRUM ADAPTERS

K1

▪ Straight
Thread

SAE# 010165

PART #	MALE FLARE X FIP	LIST PRICE
50011	1/4" x 1/2"	----
50001	1/4" x 3/4"	----

RD IF K1

CAP

PART #	SIZE	LIST PRICE
35186	15/16"	----

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POL FITTINGS

BRASS FITTINGS

TEE CONNECTION

2000



PART #	PIPE SIZE	LIST PRICE
34001	1/4" Inverted flare x 1/4" MPT	----

41-1-390-0014 2000

TAILPIECE WITH FLATS

2001A

1/4 NPT



PART #	DESCRIPTION	LIST PRICE
34011	2.34 w/ wrench Flats	----

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex

2001B



PART #	PIPE SIZE	LIST PRICE
34016	.880-14 LH	----

2001B

TAILPIECE & NUT ASSEMBLY

2002AB



PART #	PIPE SIZE	LIST PRICE
34022	1/4	----

2002AB

POL CAP

2004



PART #	PIPE SIZE	LIST PRICE
34031	.880-14LH	----

ME1699 POL2004 1004A M-2004

POL PLUG WITH CHAIN

2014



PART #	DESCRIPTION	LIST PRICE
34141	POL PLUG WITH CHAIN	----

ME1691-1

SINGLE PIECE POL ADAPTER

2008



PART #	DESCRIPTION	LIST PRICE
34130	MALE POL X 1/4 FPT	----
34131	MALE POL X 1/2 FPT	----

ME351 ME357

ADAPTERS

35792
35810



PART #	PIPE SIZE	LIST PRICE
34041	3/8 Flare x .880-14LH	----
34046	1/2 Flare x .880-14LH	----
34051	5/8 Flare x .880-14LH	----

ME3510 2906E 2007

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BRASS

POL FITTINGS**BRASS FITTINGS****TAILPIECE ASSEMBLY W/HEX HEAD
NUT & STEM**

PART #	LENGTH	LIST PRICE
34080	1/4 NPT X POL 2 LONG HARD NOSE 2 OAL	----
34082	MALE POL X 3/8 NPT	----

2906D ME352



PART #	LENGTH	LIST PRICE
34088	MPOL HARD NOSE 9/16- 18 FE LH THREAD	----

ME1650



PART #	LENGTH	LIST PRICE
34084	MPOL X 1/4 HOSE BARB 7/8 HEX	----

ME5930 970JR

SOFT NOSE TAILPIECE ASSEMBLY

PART #	LENGTH	LIST PRICE
34060	1/4 NPT X POL 2.1 LONG #60 ORIFICE	----
34061	1/4 MPT X POL SOFT NOSE 2-1/2	----
34062	1/4 NPT POL SOFT NOSE #60 ORIFICE 2.3 LONG	----
34063	POL X 9/16-18 LH TAIL- PIECE SOFT NOSE	----
34064	1/4 NPT X POL SOFT NOSE 2 3/8 LONG	----

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

HAND WHEEL POL ADAPTERS

PART #	LENGTH	LIST PRICE
34065	MPOL SOFT NOSE X 1/4 HOSE BARB BR.WHEEL	----

ME1656AR



PART #	LENGTH	LIST PRICE
34072	1/4 MPT POL SOFT NOSE W/PLASTIC WHEEL	----

ME1654



PART #	LENGTH	LIST PRICE
34073	1/4 MPT POL SOFT NOSE WITH BRASS WHEEL	----

ME1654AR



PART #	LENGTH	LIST PRICE
34074	MPOL SOFT NOSE X 1/4 HB W/PLASTIC WHEEL	----

ME1656

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

POL FITTINGS

BRASS FITTINGS

PROPANE MOTOR FUEL FILL ADAPTER



- Allows a standard POL fitting to be adapted to fill an engine fuel tank.

PART #	LENGTH	LIST PRICE
34079	FE POL X 1 3/4 ACME FUEL FILL ADPT	----

ME458 2017

FEMALE POL X MIP ADAPTER



PART #	LENGTH	LIST PRICE
34111	1/4 MPT X FE POL ADAPTER	----
34112	3/8 MPT X FE POL ADAPTER	----
34113	1/2 MPT X FE POL ADAPTER	----
34114	3/4 MPT X FE POL ADAPTER	----

2011-B ME285 2011-D 2011-E

FEMALE FPT X FEMALE POL ADAPTER



PART #	LENGTH	LIST PRICE
34120	1/4 FPT X FE POL	----
34121	3/8 FPT X FE POL	----
34122	1/2 FPT X FE POL	----
34123	3/4 FPT X FE POL	----

2016-B ME302 2016-D ME304

POL O-RING ONLY



PART #	LENGTH	LIST PRICE
34143	POL O-RING ONLY	----

C5-OR-POL 568-110-01

POL PLASTIC DUST PLUG



PART #	LENGTH	LIST PRICE
34160	POL PLASTIC DUST PLUG	----

ME970P

APPLIANCE TEE



- Tap & Add

PART #	LENGTH	LIST PRICE
34170	M.POLXF.POL W/1-20M CYL AND 1/4 INV FLAR	----

2090



- Add an appliance

PART #	LENGTH	LIST PRICE
34172	M.POLXF.POL W/1-20 MALE CYLINDER THREAD	----

2012



- With QCC1 connection

PART #	LENGTH	LIST PRICE
34174	QCC1 X F. POL W/1-20 MALE CYLINDER THD	----

2013

DUAL APPLIANCE TEE



PART #	LENGTH	LIST PRICE
34176	M.POL X (2) OF 1-20 MALE CYLINDER THREAD	----

2099

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BRASS

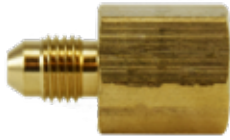
JIC 37° FLARE STRAIGHTS

BRASS FITTINGS

STRAIGHT TUBE UNION

PART #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28966	1/4	7/16-20	1.35	0.49	3250 psi	----
28969	3/8	9/16-18	1.41	0.63	3250 psi	----
28970	1/2	3/4-16	1.62	0.81	3250 psi	----
28971	3/4	1-1/16-12	2.14	1.13	3250 psi	----
28972	1"	1-5/16-12	2.25	1.38	2600 psi	----

SBC 132403 HTXB

FEMALE STRAIGHT ADAPTER

PART #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28957	1/4	1/8-27	7/16-20	1.19	0.56	3250 psi	----
28958	1/4	1/4-18	7/16-20	1.40	0.75	3250 psi	----
28959	3/8	1/4-18	9/16-18	1.40	0.75	3250 psi	----
28960	3/8	3/8-18	9/16-18	1.40	0.88	3250 psi	----
28961	1/2	3/8-18	3/4-16	1.56	0.88	3250 psi	----
28962	1/2	1/2-14	3/4-16	1.79	1.13	3250 psi	----
28963	5/8	1/2-14	7/8-14	1.87	1.13	3250 psi	----
28964	3/4	3/4-1/4	1-1/16-12	2.06	1.38	2600 psi	----

STRAIGHT

PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28701	1/4	1/8-27	7/16-20	1.22	0.45	3250 psi	----
28702	1/4	1/4-18	7/16-20	1.37	0.56	3250 psi	----
28703	1/4	3/8-18	7/16-20	1.42	0.75	3250 psi	----
28704	5/16	1/8-27	1/2-20	1.41	0.56	3250 psi	----
28705	5/16	1/4-18	1/2-20	1.42	0.56	3250 psi	----
28706	3/8	1/8-27	9/16-18	1.24	0.63	3250 psi	----
28707	3/8	1/4-18	9/16-18	1.43	0.63	3250 psi	----
28708	3/8	3/8-18	9/16-18	1.38	0.75	3250 psi	----
28709	3/8	1/2-14	9/16-18	1.69	0.88	3250 psi	----
28710	1/2	1/4-18	3/4-16	1.53	0.81	3250 psi	----
28711	1/2	3/8-18	3/4-16	1.53	0.81	3250 psi	----
28712	1/2	1/2-14	3/4-16	1.79	0.88	3250 psi	----
28713	1/2	3/4-14	3/4-16	1.85	1.13	2600 psi	----
28714	5/8	3/8	7/8-14	1.84	0.94	3250 psi	----
28715	5/8	1/2-14	7/8-14	1.89	0.94	3250 psi	----
28716	5/8	3/4-14	7/8-14	1.95	1.13	2600 psi	----
28748	3/4	1/2-14	1 1/16-12	2.06	1.13	2925 psi	----
28717	3/4	3/4-14	1 1/16-12	2.06	1.13	2600 psi	----
28749	3/4	1-11 1/2	1 1/16-12	2.25	1.38	1950 psi	----
28719	1	3/4-14	1 5/16-12	2.06	1.13	2275 psi	----
28718	1	1-11 1/2	1 5/16-12	2.3	1.38	1950 psi	----

B2404 SB FTXB

STRAIGHT SWIVEL ADAPTER

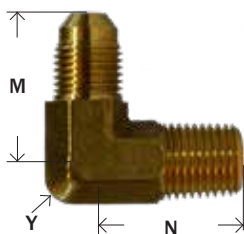
PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi	----
28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi	----
28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi	----
28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi	----

B6505 SJS

S/B JIC 37° SHAPES

BRASS FITTINGS

90° FORGED ELBOW

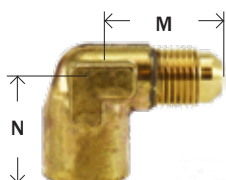


• Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST PRICE
28760F	1/4	7/16-20	1/8-27	0.89	0.78	0.5	2160 psi	----
28762F	1/4	7/16-20	1/4-18	1.05	1.03	0.53	1846 psi	----
28766F	5/16	1/2-20	1/4-18	1.10	1.10	0.55	3905 psi	----
28768F	3/8	9/16-18	1/8-27	1.06	1.00	0.56	3128 psi	----
28770F	3/8	9/16-18	1/4-18	1.06	1.09	0.54	1564 psi	----
28772F	3/8	9/16-18	3/8-18	1.15	1.22	0.74	1464 psi	----
28773F	3/8	9/16-18	1/2-14	1.22	1.47	0.90	1265 psi	----
28774F	1/2	3/4-16	3/8-18	1.25	1.22	0.81	1467 psi	----
28777F	1/2	3/4-16	1/2-14	1.31	1.47	0.90	1265 psi	----
28778F	1/2	3/4-16	3/4-14	1.4	1.59	0.89	2061 psi	----
28780F	5/8	7/8-14	1/2-14	1.45	1.47	0.88	1265 psi	----
28781F	3/4	1 1/16-12	1/2-14	1.66	1.56	1.08	1265 psi	----
28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi	----
28784F	1	1 5/16-12	3/4-14	1.88	1.77	1.32	1802 psi	----
28786F	1	1 5/16-12	1-11 1/2	1.81	1.97	1.3	2361 psi	----

DL3B2 3F69CL GGL6A1 F23L2 EE48D3 EE46B2 FF45A2 F48C3 FF22C3 D49B1 D25B1 3F47C1

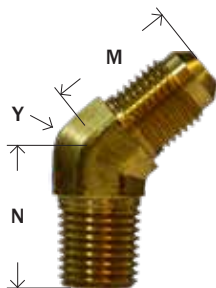
FEMALE ELBOW FORGED BODY



PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	WORKING PRESSURE	LIST PRICE
28973	1/4	7/16-20	1/8-27	1.08	0.66	2797 psi	----
28974	1/4	7/16-20	1/4-18	1.25	0.55	3066 psi	----
28975	3/8	9/16-18	1/4-18	1.23	0.88	2842 psi	----

B2502 EBF DTXB

45° FORGED ELBOW



• Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST PRICE
28722F	1/4	7/16-20	1/8-27	0.72	0.64	0.5	4367 psi	----
28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi	----
28728F	5/16	1/2-2	1/4-18	0.88	0.86	0.54		
28729F	3/8	9/16-18	1/8-27	0.83	0.65	0.63	3128 psi	----
28731F	3/8	9/16-18	1/4-18	0.83	0.86	0.63	3128 psi	----
28733F	3/8	9/16-18	3/8-18	0.91	0.95	0.81	3100 psi	----
28734F	3/8	9/16-18	1/2-14	1.03	1.17	0.94	2826 psi	----
28736F	1/2	3/4-16	3/8-18	0.98	0.95	0.75	2938 psi	----
28738F	1/2	3/4-16	1/2-14	1.13	1.17	0.86	2826 psi	----
28740F	5/8	7/8-14	1/2-14	1.13	1.08	0.88		
28742F	3/4	1 1/16-12	3/4-14	1.28	1.2	1.13	2442 psi	----

B2503 FBC-F VTXB

THREAD CHART

SIZE	JIC THREAD
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
1	1-5/16-12

INVERTED FLARE**BRASS FITTINGS****INVERTED FLARE FITTINGS**

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread O.D. threads per inch	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	1 1/16-18	3/4-18	7/8-18	1-1/16-16	1-3/16-16	1-5/16-16

•Typical Application

Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas.

•Working Pressure Ranges

Temperature and type of tubing used are important factors. However, the following table is a

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

good guide for proper selection. Temperature 73°F with copper tubing:

•Vibration

Excellent resistance.

•Temperature Range

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

•Used With

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

•Advantages

Very low cost and reusable. Seats and threads are internal and protected. Compact, excellent vibration life. Short nut affords very close tube bends. Steel or brass

tube nut.

• Tolerance

+/- .03 on all dimensions.

•Conformance

Meets specifications and standards of ASA, ASME, SAE and MS (Military Standards).

•Assembly Instructions

1-Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.

2- Slide nut on tube. Threaded end "A" of nut must face out.

3- Flare end of tube with a 45° flaring tool.

a- Measure flare diameter.

b- Examine flare for excessive thin out.

c- On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.

4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.

STANDARD METRIC THREADS

Description Tube Size	Thread O.D.	Crest (Pitch)	Thread Description
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8"	16mm	1.5mm	M16 x 1.5

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

Actual O.D. of male inverted flare threads

5/16"-28 2800 PSI 3/8"-24 1900 PSI 7/16"-24 1400 PSI 1/2"-20 1200 PSI 5/8"-18 1000 PSI

3/4"-18 750 PSI

7/8"-18 650 PSI

1-1/16"-16 550 PSI

1/8"

3/16"

1/4"

5/16"

3/8"

1/2"

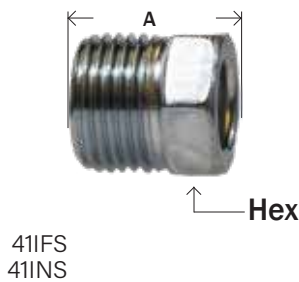
5/8"

3/4"

INVERTED FLARE

BRASS FITTINGS

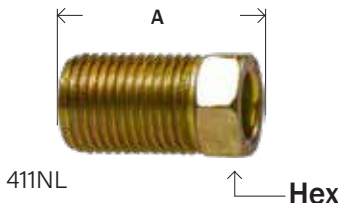
ZINC CHROMATE STEEL NUT



SAE# 040110						
PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
12001	1/8"	5/16-28	0.52	0.31	0.01	----
12002	3/16"	3/8-24	0.56	0.37	0.02	----
12018	3/16"	7/16-24	0.56	0.43	0.02	----
12003	1/4"	7/16-24	0.56	0.43	0.02	----
12004	5/16"	1/2-20	0.62	0.50	0.02	----
12005	3/8"	5/8-18	0.66	0.62	0.03	----
12000	7/16"	11/16-18	0.68	0.68	0.04	----
12011	3/8"	11/16-18	0.66	0.68	0.05	----
12006	1/2"	3/4-18	0.74	0.75	0.08	----
12007	5/8"	7/8-18	0.80	0.87	0.10	----
12008	3/4"	1-1/16-16	0.88	1.06	0.10	----
12083	7/8"	1-3/16-16	1.07	1.19	0.14	----
12084	1"	1-5/16-16	1.18	1.375	0.21	----

121XXX 2105 411FS 105 41W

LONG STEEL NUT

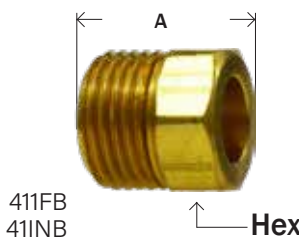


FOR DOMESTIC LINES

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12009	3/16"	0.84	0.37	0.02	----
12010	1/4"	0.81	0.43	0.02	----

7896

INVERTED FLARE BRASS NUT



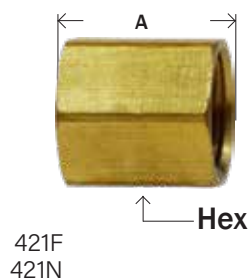
SAE# 040110					
PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12012	1/8"	0.52	0.31	0.01	----
12013	3/16"	0.56	0.37	0.01	----
12014	1/4"	0.56	0.43	0.02	----
12015	5/16"	0.62	0.50	0.03	----
12016	3/8"	0.66	0.62	0.04	----
12017	1/2"	0.74	0.75	0.05	----

• More sizes available

2100 411F 100 411B



PART #	TUBESIZE	THREAD	REF#	LIST PRICE
12260	3/16 British	3/8-24 Bubble	---	----
12261	3/16 European	M10 x 1.0 Bubble	276110	----
12262	3/16 Japanese	M10 x 1.0 Inv.	121050	----
12263	3/16 Domestic	1/2 x 20 Inv.	---	----
12264	3/16 Domestic	9/16 - 18 Inv.	121039	----
12265	3/16 Imported	M11 x 1.5 Bubble	276011	----
12266	3/16 Imported	M12 x 1.0 Bubble	276012	----
12267	3/16 Imported	M13 x 1.5 Bubble	276013	----
12268	1/4 Domestic	9/16 x 18 Inv.	121049	----
12269	1/4 Domestic	1/2 x 20 Inv.	121045	----
12270	6mm Imported	M12 x 1.0 Bubble		----
12271	6mm GM	M12 x 1.0 Bubble		----
12272	6mm GM	M12 x 1.5 Bubble		----
12273	6mm GM	M14 x 1.5 Bubble		----
12274	5/16 Domestic	M14 x 1.5 Surface Seal	121069	----
12275	3/8 Domestic	M16 x 1.5 Surface Seal	121070	----

INVERTED FLARE**BRASS FITTINGS****UNION INTERNAL**

SAE# 040101

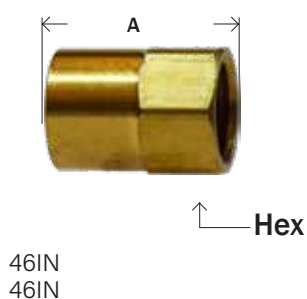
PART #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12022	1/8"	0.59	0.40	0.02	----
12023	3/16"	0.62	0.43	0.02	----
12024	1/4"	0.62	0.50	0.03	----
12025	5/16"	0.70	0.56	0.04	----
12026	3/8"	0.80	0.75	0.08	----
12027	1/2"	0.91	0.90	0.10	----
12028	5/8"	1.31	1.06	0.22	----

see page 72 for metric unions

302 2300 421FHD

FEMALE ADAPTER

SAE# 040103



PART #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
12029	1/8" x 1/8"	0.716	0.50	0.03	----
12032	3/16" x 1/8"	0.75	0.50	0.02	----
12033	1/4" x 1/8"	0.75	0.53	0.02	----
12030	1/4" x 1/4"	1.01	0.751	0.11	----
12034	5/16" x 1/8"	0.78	0.59	0.04	----
12035	3/8" x 1/4"	1.03	0.75	0.08	----
12031	7/16" x 1/4"	1.06	0.81	0.11	----
12037	1/2" x 1/4"	1.09	0.90	0.12	----
12036	1/2" x 3/8"	1.10	0.90	0.12	----
12039	5/8" x 1/2"	1.32	1.065	0.19	----
12099	3/4" x 3/4"	1.50	1.25	0.36	----

461FHD 252 46W

MALE ADAPTER

SAE# 040102



PART #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
12041	1/8" x 1/8"	0.63	0.40	0.02	----
12042	3/16" x 1/8"	0.70	0.43	0.02	----
12053	3/16" x 1/4"	0.72	0.56	0.04	----
12043	1/4" x 1/8"	0.74	0.50	0.03	----
12044	1/4" x 1/4"	0.89	0.56	0.04	----
12045	5/16" x 1/8"	0.79	0.56	0.03	----
12046	5/16" x 1/4"	0.98	0.56	0.05	----
12055	5/16" x 3/8"	1.01	0.75	0.07	----
12047	3/8" x 1/8"	0.88	0.72	0.05	----
12048	3/8" x 1/4"	1.02	0.75	0.06	----
12049	3/8" x 3/8"	1.02	0.75	0.08	----
12104	7/16" x 1/4"	1.05	0.81	0.06	----
12038	1/2" x 1/4"	0.97	0.87	0.10	----
12050	1/2" x 3/8"	1.06	0.87	0.08	----
12051	1/2" x 1/2"	1.06	0.87	0.11	----
12052	5/8" x 1/2"	1.32	1.06	0.15	----
12105	3/4" x 1/2"	1.38	1.25	0.18	----
12040	3/4" x 3/4"	1.39	1.25	0.24	----
12107	7/8" x 3/4"	1.375	1.375	0.21	----
12108	1" x 1"	1.62	1.50	0.37	----

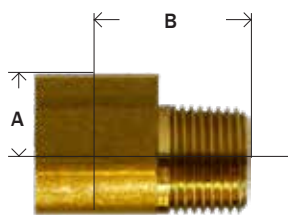
2200 481FHD 202 48W 200

Dimension data can change without notice. Please check when dimensions are critical.

INVERTED FLARE

BRASS FITTINGS

ELBOW



491N
491F

SAE# 040202

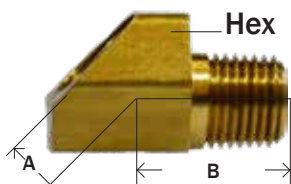
PART #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
12057	1/8" x 1/8"	0.26	0.59	0.03	----
12058	3/16" x 1/8"	0.26	0.61	0.03	----
12059	1/4" x 1/8"	0.33	0.65	0.04	----
12054*	1/4" x 1/8"	0.33	0.65	0.04	----
12060	1/4" x 1/4"	0.28	0.82	0.06	----
12061	5/16" x 1/8"	0.47	0.68	0.05	----
12062	5/16" x 1/4"	0.45	0.85	0.08	----
12082	5/16" x 3/8"	0.47	0.86	0.12	----
12063	3/8" x 1/8"	0.54	0.76	0.14	----
12064	3/8" x 1/4"	0.53	0.92	0.14	----
12065	3/8" x 3/8"	0.50	0.94	0.12	----
12114	1/2" x 1/4"	0.72	1.08	0.14	----
12066	1/2" x 3/8"	0.59	1.03	0.16	----
12067	1/2" x 1/2"	0.66	1.22	0.25	----
12056	5/8" x 3/8"	0.67	1.09	0.20	----
12068	5/8" x 1/2"	0.67	1.29	0.18	----
12069	3/4" x 1/2"	0.80	1.39	0.42	----
12080	7/8" x 3/4"	0.94	1.43	0.48	----
12081	1" x 1"	1.02	1.69	0.60	----

400 2400 249IFHD 402 249IF 49W

* Restricted pipe end .062

45° ELBOW

SAE# 040302



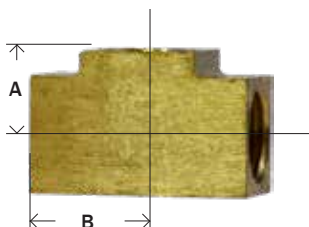
591F
941N

PART #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
12070	1/8" x 1/8"	0.22	0.48	0.50	0.03	----
12072	3/16" x 1/8"	0.25	0.55	0.53	0.02	----
12073	1/4" x 1/8"	0.27	0.58	0.56	0.04	----
12074	5/16" x 1/8"	0.36	0.56	0.62	0.06	----
12075	5/16" x 1/4"	0.23	0.83	0.62	0.06	----
12115	3/8" x 1/8"	0.34	0.87	0.87	0.09	----
12076	3/8" x 1/4"	0.51	0.84	0.78	0.09	----
12077	1/2" x 3/8"	0.38	0.91	0.84	0.11	----
12079	5/8" x 1/2"	0.44	1.00	1.06	0.21	----

154 2352 259IFHD 352 94W

UNION TEE

SAE# 040401



441F
441N

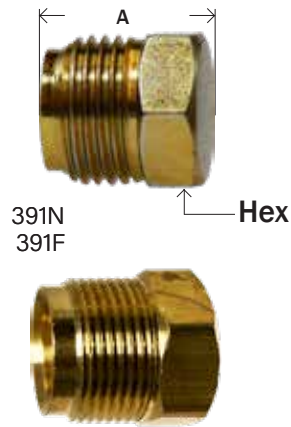
PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
12085	1/8"	0.33	0.47	0.04	----
12086	3/16"	0.39	0.55	0.04	----
12087	1/4"	0.42	0.56	0.08	----
12088	5/16"	0.45	0.63	0.09	----
12089	3/8"	0.56	0.74	0.17	----
12090	1/2"	0.67	0.88	0.24	----

244IFHD 702 441

INVERTED FLARE**BRASS FITTINGS****STEEL PLUG**

SAE# 040109

• cored

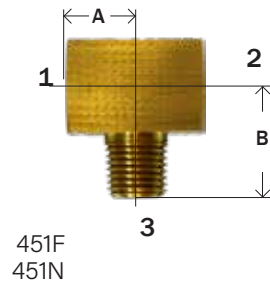


PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12091	3/16"	0.53	0.37	0.01	----
12092	1/4"	0.54	0.43	0.02	----
12093	5/16"	0.59	0.50	0.03	----
12094	3/8"	0.66	0.62	0.04	----
Brass					
12095	3/8"	0.66	0.63	0.04	----
12096	1/2"	0.82	0.75	0.07	----
12097	5/8"	0.90	0.87	0.10	----
12098	3/4"	0.95	1.07	0.17	----

106 41IP 131 2131

MALE BRANCH TEE

SAE# 040425

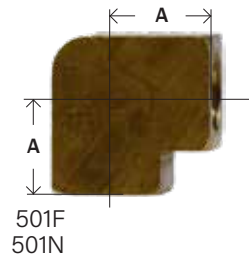


PART #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
12100	3/16" x 1/8"	0.41	0.60	0.04	----
12101	1/4" x 1/8"	0.42	0.64	0.06	----
12102	5/16" x 1/8"	0.47	0.68	0.07	----
12103	3/8" x 1/4"	0.58	0.93	0.15	----

145 245IFHD 602 2600 600

FEMALE ELBOW

SAE# 040203

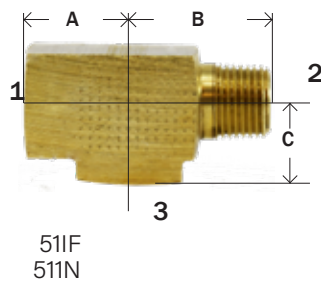


PART #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.	LIST PRICE
12110	1/4" x 1/8"	0.55	0.07	----
12111	5/16" x 1/8"	0.51	0.08	----
12112	3/8" x 1/4"	0.68	0.10	----

450

MALE RUN TEE

SAE# 040424



PART #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.	LIST PRICE
12118	3/16" x 1/8"	0.53	0.72	0.39	0.06	----
12119	1/4" x 1/8"	0.56	0.75	0.42	0.08	----
12120	5/16" x 1/8"	0.62	0.85	0.45	0.10	----
12121	3/8" x 1/4"	0.75	1.08	0.56	0.14	----

251IFHD 752 550 151

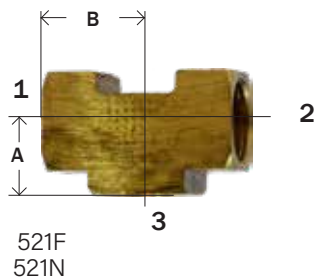
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE

BRASS FITTINGS

FEMALE BRANCH TEE

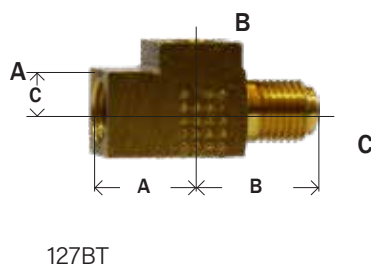
SAE# 040427



PART #	INV. FLARE X FEMALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
12127	3/16" x 1/8"	0.39	0.55	0.06	----
12129	5/16" x 1/8"	0.45	0.63	0.12	----
12130	3/8" x 1/4"	0.56	0.74	0.17	----

252IFHD 652 136

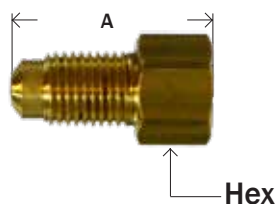
TOWED TRAILER BRAKE TEE



PART #	A	B	C	REFERENCE #	APPROX. WT. LBS.	LIST PRICE
12147	3/16" 0.57	3/16" 0.76	3/16" 0.42	7900	0.08	----
12145	3/16" (1/2-20) 0.68	3/16" (3/8-24) 0.94	3/16" (1/2-20) 0.47	7906	0.17	----
12148	3/16" (9/16-18)	3/16" (3/8-24)	3/16" (9/16-18)	7933	0.10	----
12144	3/16" (9/16-20) 0.82	3/16" (3/8-24) 0.94	3/16" (9/16-20) 0.47	7905	0.18	----
12146	3/16" (7/16-24) 0.54	3/16" (3/8-24) 0.78	1/4" (7/16-24) 0.42	7914	0.08	----
12150	1/4" 0.56	3/16" 0.77	1/4" 0.43	7901	0.10	----
12149	1/4" (9/16-18) 0.81	3/16" (3/8-24) 0.93	1/4" (9/16-18) 0.50	7904	0.10	----
12151	1/4" 0.56	1/4" 0.77	1/4" 0.43	7898	0.12	----

INVERTED FLARE AUTO FITTINGS

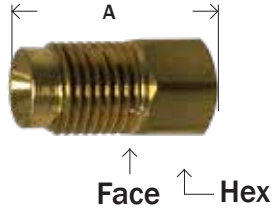
DUAL MASTER CYLINDER ADAPTER



PART #	MALE FLARE X FEMALE INV.	A	HEX	REFERENCE #	APPROX. WT. LBS.	LIST PRICE
12200	3/16" x 3/16"	1.00	0.50	1441	0.03	----
12202	5/16" x 3/16"	0.96	0.68	7897	0.07	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

INVERTED FLARE**BRASS FITTINGS****DUAL MASTER CYLINDER ADAPTER**

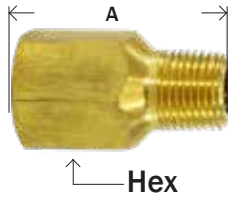
* Seals on hex face



48STA
6641N
6011N

PART #	MALE INVERTED THREAD	FEMALE INVERTED THREAD	REF#	LIST PRICE
12206	3/16(9/16-18)	3/16	7911	----
12209	3/16(9/16-18)	3/16(1/2-20)	7913	----
12207	3/16(9/16-20)	3/16	7910	----
12210	3/16	1/4	7828	----
12212	1/4	3/16	7818	----
12214*	7/16-20	1/4	7732	----
12211	1/4(9/16-18)	1/4	7908	----
12215	1/4	5/16	7917	----
12213*	5/16	3/16	7817	----
12216	5/16	3/16	7909	----
12208	5/16	3/16(9/16-18)	7912	----
12218*	5/16	1/4	7727	----
12220	5/16	1/4	7829	----
12222*	5/16	5/16	1074	----
12221	5/16	3/8	7915	----
12224	3/8" NPTF	5/16	7771	----
12217	3/8	5/16	7916	----

47W

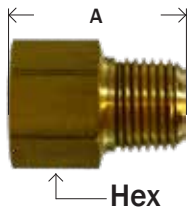
CARBURETOR TO FUEL LINE ADAPTER - FORD

PART #	FEMALE TUBE OD X MALE NPTF	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12230	1/4"(1/2-20) x 1/8"	1.06	0.56	1513	0.04	----

1513

RESTRICTION PIPE ADAPTER

(.0625 ORIFICE)



PART #	SIZE FIP X MIP	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12310	1/8"	0.75	0.50	1512	0.02	----

1510

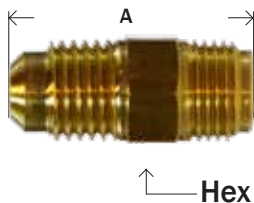
Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE

BRASS FITTINGS

SAE FLARE X INVERTED FLARE

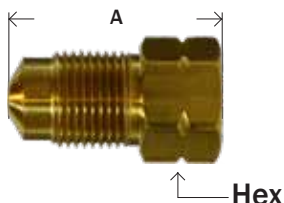


PART #	SAE FLARE X INV. FLARE	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12250	1/4" x 3/16"	1.03	0.43	1518	0.02	----
12252	1/4" x 1/4"	1.03	0.43	1522	0.03	----
12254	3/8" x 5/16"	1.34	0.63	1553	0.08	----
12256	3/8" x 3/8"	1.37	0.63	1563	0.09	----
12257	3/8" x 7/16"	1.40	0.68	1554	0.10	----

4205

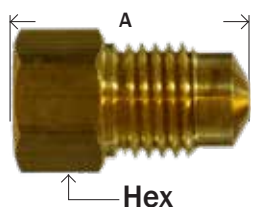
METRIC HYDRAULIC BRAKE FITTINGS

METRIC ADAPTER



PART #	BUBBLE MALE THREAD	TUBE O.D./ FE-MALE THREAD	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12335	M10x1.0	3/16"(3/8-24)	1.02	0.50	1442	0.02	----
12326	M11x1.5	3/16"(M10x1.0)	1.06	0.50	7935	0.02	----
12327	M12x1.0	3/16"(M10x1.0)	1.02	0.53	7936	0.04	----
12328	M16x1.5	3/16"(M10x1.0)	1.02	0.56	7937	0.06	----

ADAPTER STANDARD TO METRIC BUBBLE



PART #	FEMALE INV. FLARE SEAT	MALE METRIC BUBBLE FLARE	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12336	3/16" (3/8-24)	11x1.5			7973		----
12337	3/16" (3/8-24)	(3/16") (10x1.25)	1.00	0.50	7970	0.02	----
12339	3/16" (3/8-24)	13x1.5	1.03	0.56	7972	0.04	----
12341	3/16" (3/8-24)	12x1.0	1.02	0.53	7974	0.04	----

FEMALE X MALE ADAPTERS



PART #	FEMALE STANDARD FLARE SEAT	MALE BUBBLE FLARE	MATE-RIAL	LIST PRICE
12330	3/8-24 (3/16)	7/16-20	Steel	----

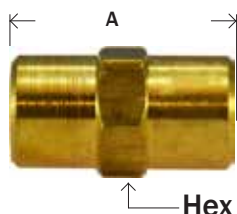


PART #	TUBE OD/ FEMALE THREAD	INVERTED MALE THREAD	REF #	LIST PRICE
12205	3/16 (3/8-24)	M10 x 1.0	1443	----



PART #	FEMALE STANDARD FLARE	INVERTED MALE THREAD	MATE-RIAL	LIST PRICE
12329	3/8-24 (3/16)	M9 x 1.0	Steel	----

METRIC UNION



PART #	SIZE	A	HEX	REF #	APPROX. WT. LBS.	LIST PRICE
12342	British Brake Lines 3/16 (3/8-24 Bubble)	0.87	0.50	1594	0.03	----
12343	European Brake Lines 3/16"(10.0MM)	1.04	0.56	7975	0.04	----
12344	Japanese Brake Lines 3/16 (M10 x 1.0) Inverted	1.00	0.50	7934A	0.04	----
12345	GM Brake Lines 6mm M12 x 1.0 Bubble	1.11	0.63		0.06	----

COMPRESSION

BRASS FITTINGS

COMPRESSION FITTINGS

These are NOT Lead Free

See pages 164-166 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"

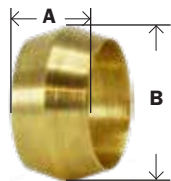
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

BRASS FITTINGS

BRASS SLEEVE

• FERRULES



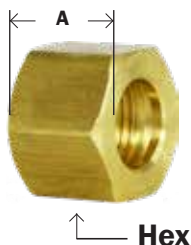
60

SAE# 060115

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18001	1/8"	0.19	0.19	0.01	----
18002	3/16"	0.22	0.27	0.01	----
18003	1/4"	0.25	0.34	0.01	----
18004	5/16"	0.25	0.41	0.01	----
18005	3/8"	0.25	0.47	0.02	----
18006	7/16"	0.31	0.53	0.02	----
18007	1/2"	0.38	0.59	0.02	----
18008	5/8"	0.38	0.71	0.03	----
18009	3/4"	0.44	0.87	0.03	----
18010	7/8"	0.41	0.99	0.03	----
18011	1"	0.55	1.16	0.03	----

60 260

BRASS NUT



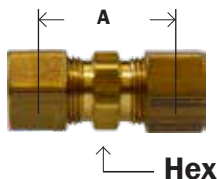
61

SAE# 060110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
18033	1/8"	5/16-24	0.38	0.37	0.01	----
18034	3/16"	3/8-24	0.41	0.43	0.01	----
18035L	1/4"	7/16-24	0.44	0.50	0.02	----
18035	1/4"	7/16-24	0.44	0.50	0.02	----
18036	5/16"	1/2-24	0.44	0.56	0.02	----
18037L	3/8"	9/16-24	0.47	0.62	0.04	----
18037	3/8"	9/16-24	0.47	0.62	0.04	----
18038	7/16"	5/8-24	0.50	0.68	0.04	----
18039L	1/2"	11/16-20	0.56	0.75	0.04	----
18039	1/2"	11/16-20	0.62	0.81	0.04	----
18040L	5/8"	13/16-18	0.56	0.87	0.06	----
18040	5/8"	13/16-18	0.62	0.94	0.06	----
18041	3/4"	1-18	0.68	1.12	0.08	----
18042	7/8"	1-1/8 - 18	0.62	1.25	0.10	----
18043	1"		0.94	1.38	0.15	----

61 261

UNION

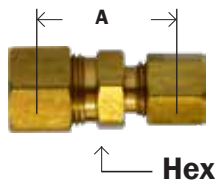


62
262

SAE# 060101BA

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18062	1/8"	0.64	0.31	0.03	----
18063	3/16"	0.75	0.37	0.04	----
18064L	1/4"	0.79	0.43	0.06	----
18064	1/4"	0.81	0.43	0.06	----
18065	5/16"	0.88	0.50	0.06	----
18066L	3/8"	0.96	0.56	0.09	----
18066	3/8"	0.98	0.56	0.10	----
18067	7/16"	1.02	0.62	0.12	----
18068L	1/2"	1.06	0.68	0.16	----
18068	1/2"	1.25	0.68	0.16	----
18069L	5/8"	1.43	0.81	0.24	----
18069	5/8"	1.25	0.81	0.26	----
18070	3/4"	1.41	1.00	0.35	----
18071L	7/8"	1.03	1.12	0.34	----
18071	7/8"	1.00	1.12	0.36	----
18072	1"	1.78	1.38	0.58	----

M-62

COMPRESSION**BRASS FITTINGS****REDUCING UNION**

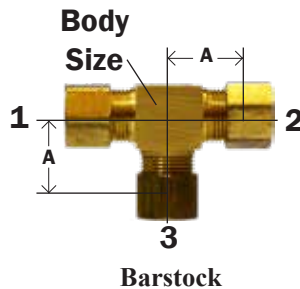
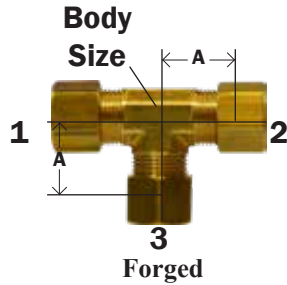
62R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18076	1/4" x 1/8"	0.73	0.44	0.04	----
18077	1/4" x 3/16"	0.78	0.44	0.06	----
18078	5/16" x 1/4"	0.81	0.50	0.06	----
18079	3/8" x 1/4"	0.90	0.56	0.10	----
18080	3/8" x 5/16"	0.94	0.56	0.10	----
18081	1/2" x 3/8"	1.03	0.68	0.12	----
18082	5/8" x 3/8"	1.03	0.81	0.15	----
18083	5/8" x 1/2"	1.16	0.81	0.18	----
18085	7/8" x 3/8"	1.18	1.18	0.26	----
18086	7/8" x 1/2"	1.21	1.18	0.24	----
18084	7/8" x 5/8"	1.23	1.18	0.20	----

62-R

TEE

SAE# 060401

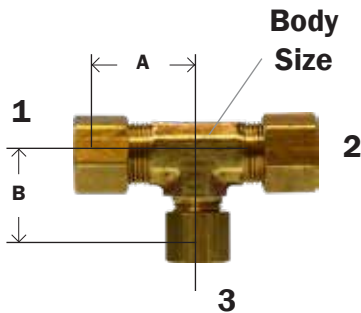


64

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18101	1/8"	0.61	0.37	0.04	----
18101B*	1/8"	0.62	0.33	0.04	----
18102	3/16"	0.59	0.36	0.08	----
18102B*	3/16"	0.60	0.38	0.08	----
18103	1/4"	0.63	0.36	0.10	----
18103B*	1/4"	0.62	0.49	0.10	----
18104	5/16"	0.72	0.50	0.13	----
18104B*	5/16"	0.60	0.50	0.14	----
18105	3/8"	0.75	0.50	0.16	----
18105B*	3/8"	0.73	0.59	0.16	----
18106	1/2"	0.94	0.59	0.22	----
18106B*	1/2"	0.94	0.69	0.24	----
18107	5/8"	1.06	0.69	0.28	----
18108	3/4"	1.22	0.88	0.32	----
18109	7/8"	1.25	0.94	0.34	----

* Barstock

64 264C

FORGED REDUCING TEE

64R

PART #	SIZE 1 X 2 X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18114	1/4" x 1/4" x 1/8"	0.62	0.59	0.38	0.09	----
18110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14	----
18111	3/8" x 1/4" x 1/4"	0.75	0.69	0.50	0.12	----
18115	3/8" x 3/8" x 1/4"	0.75	0.69	0.50	0.14	----
18116	1/2" x 1/2" x 1/4"	0.94	0.81	0.59	0.16	----
18117	1/2" x 1/2" x 3/8"	0.94	0.81	0.59	0.24	----
18118	5/8" x 5/8" x 3/8"	1.06	0.94	0.69	0.28	----
18119	5/8" x 5/8" x 1/2"	1.06	1.06	0.69	0.30	----

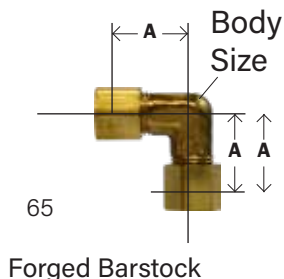
64-R

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COMPRESSION

BRASS FITTINGS

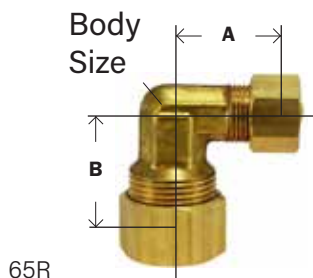
UNION ELBOW SAE# 060201



PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18122B*	1/8"	0.62	0.35	0.04	----
18123	3/16"	0.61	0.37	0.06	----
18124	1/4"	0.66	0.38	0.08	----
18125	5/16"	0.69	0.47	0.09	----
18126	3/8"	0.72	0.43	0.12	----
18127	1/2"	0.94	0.59	0.19	----
18128	5/8"	1.06	0.72	0.26	----
18129	3/4"	1.19	0.94	0.48	----
18130	7/8"	1.25	0.94	0.44	----

65 BSE2 165C 265C

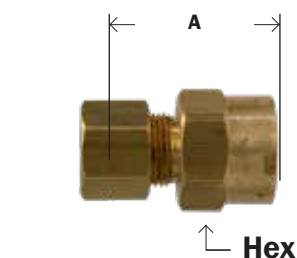
REDUCING ELBOW - FORGED



PART #	SIZE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18135	3/8" x 1/4"	0.69	0.75	0.47	0.12	----
18136	1/2" x 3/8"	0.88	0.94	0.59	0.15	----
18137	5/8" x 3/8"	0.88	0.97	0.56	0.18	----

65-R

FEMALE ADAPTER SAE# 060103



PART #	COMP. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18142	1/8" x 1/8"	0.75	0.56	0.02	----
18143	3/16" x 1/8"	0.78	0.56	0.04	----
18144	3/16" x 1/4"	0.96	0.68	0.04	----
18145L	1/4" x 1/8"	0.84	0.50	0.05	
18145	1/4" x 1/8"	0.78	0.56	0.05	----
18146L	1/4" x 1/4"	0.88	0.62	0.09	
18146	1/4" x 1/4"	1.03	0.68	0.09	----
18148	1/4" x 1/2"	1.02	0.87	0.12	----
18149	5/16" x 1/8"	0.81	0.56	0.05	----
18150	5/16" x 1/4"	0.91	0.62	0.06	----
18152	3/8" x 1/8"	0.88	0.56	0.06	----
18153L	3/8" x 1/4"	0.97	0.62	0.08	
18153	3/8" x 1/4"	1.06	0.68	0.08	----
18154L	3/8" x 3/8"	1.03	0.75	0.08	
18154	3/8" x 3/8"	1.06	0.81	0.10	----
18155	3/8" x 1/2"	1.12	1.00	0.08	----
18156	3/8" x 3/4"	1.19	1.16	0.14	----
18157	1/2" x 1/4"	1.09	0.68	0.10	----
18158L	1/2" x 3/8"	0.94	0.81	0.12	
18158	1/2" x 3/8"	1.12	0.81	0.12	----
18159L	1/2" x 1/2"	1.19	1.00	0.12	
18159	1/2" x 1/2"	1.31	1.00	0.12	----
18160	1/2" x 3/4"	1.25	1.16	0.18	----
18162L	5/8" x 1/2"	1.20	0.94	0.18	
18162	5/8" x 1/2"	1.38	1.00	0.18	----
18163	5/8" x 3/4"	1.20	1.12	0.22	----
18164	3/4" x 1/2"	1.25	1.06	0.26	----
18165	3/4" x 3/4"	1.28	1.19	0.28	----
18167	7/8" x 1/2"	1.28	1.19	0.32	----
18166	7/8" x 3/4"	1.31	1.12	0.34	----

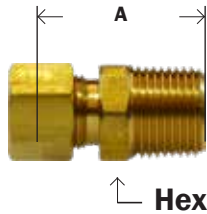
• More sizes available

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BRASS

COMPRESSION**BRASS FITTINGS****MALE ADAPTER**

SAE# 060102



68

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18175	1/8" x 1/16"	0.78	0.37	0.02	----
18176	1/8" x 1/8"	0.78	0.43	0.04	----
18177	3/16" x 1/8"	0.84	0.43	0.04	----
18178	3/16" x 1/4"	0.94	0.56	0.06	----
18179L	1/4" x 1/8"	0.88	0.56	0.04	
18179	1/4" x 1/8"	0.88	0.43	0.04	----
18180L	1/4" x 1/4"	0.94	0.56	0.05	
18180	1/4" x 1/4"	1.06	0.56	0.06	----
18181	1/4" x 3/8"	1.03	0.68	0.08	----
18182	1/4" x 1/2"	1.09	0.81	0.10	----
18183	5/16" x 1/8"	0.91	0.50	0.05	----
18184L	5/16" x 1/4"	1.01	0.56	0.06	
18184	5/16" x 1/4"	1.09	0.56	0.06	----
18185	5/16" x 3/8"	1.06	0.68	0.07	----
18186	5/16" x 1/2"	1.14	0.87	0.10	----
18187L	3/8" x 1/8"	0.94	0.56	0.06	
18187	3/8" x 1/8"	0.97	0.56	0.06	----
18188L	3/8" x 1/4"	1.03	0.56	0.06	
18188	3/8" x 1/4"	1.16	0.56	0.07	----
18189L	3/8" x 3/8"	1.09	0.68	0.08	
18189	3/8" x 3/8"	1.14	0.69	0.08	----
18190L	3/8" x 1/2"	1.19	0.88	0.12	
18190	3/8" x 1/2"	1.34	0.87	0.13	----
18191	3/8" x 3/4"	1.29	1.06	0.16	----
18192	7/16" x 1/4"	1.06	0.62	0.10	----
18204	7/16" x 3/8"	1.10	0.68	0.12	----
18193L	1/2" x 1/4"	1.09	0.69	0.11	
18193	1/2" x 1/4"	1.22	0.68	0.11	----
18194L	1/2" x 3/8"	1.16	0.68	0.12	
18194	1/2" x 3/8"	1.16	0.69	0.12	----
18195L	1/2" x 1/2"	1.09	0.81	0.12	
18195	1/2" x 1/2"	1.41	0.87	0.19	----
18196	1/2" x 3/4"	1.38	1.06	0.22	----
18216	5/8" x 1/4"	1.21	0.87	0.22	----
18197	5/8" x 3/8"	1.22	0.87	0.24	----
18198	5/8" x 1/2"	1.12	0.81	0.24	----
18199	5/8" x 3/4"	1.31	1.06	0.26	----
18200	3/4" x 1/2"	1.44	1.00	0.26	----
18201	3/4" x 3/4"	1.50	1.06	0.26	----
18202	7/8" x 1/2"	1.18	1.12	0.26	----
18203	7/8" x 3/4"	1.22	1.12	0.28	----
18205	7/8" x 1"	1.67	1.37	0.32	----
18206	1" x 3/4"	1.95	1.37	0.44	----
18207	1" x 1"	2.00	1.38	0.48	----

68

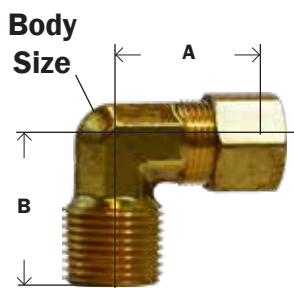
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

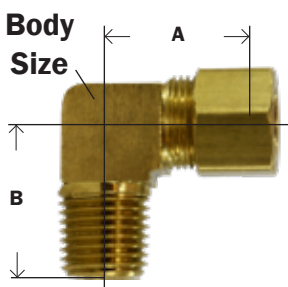
BRASS FITTINGS

MALE ELBOW

SAE# 060202



Forged



Barstock

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18219	1/8" x 1/16"	0.59	0.73	0.34	0.02	----
18220	1/8" x 1/8"	0.59	0.75	0.34	0.02	----
18220B*	1/8" x 1/8"	0.60	0.67	0.43	0.04	----
18221	3/16" x 1/8"	0.63	0.72	0.34	0.04	----
18221B*	3/16" x 1/8"	0.62	0.69	0.43	0.06	----
18223	3/16" x 1/4"	0.60	0.81	0.39	0.05	----
18223B*	3/16" x 1/4"	0.65	0.85	0.41	0.08	----
18224	1/4" x 1/8"	0.60	0.75	0.37	0.06	----
18224B*	1/4" x 1/8"	0.62	0.75	0.43	0.06	----
18225	1/4" x 1/4"	0.65	0.94	0.36	0.08	----
18225B*	1/4" x 1/4"	0.61	0.81	0.56	0.08	----
18226	1/4" x 3/8"	0.75	0.91	0.47	0.08	----
18227	1/4" x 1/2"	0.81	1.13	0.56	0.12	----
18228	5/16" x 1/8"	0.66	0.75	0.47	0.06	----
18228B*	5/16" x 1/8"	0.62	0.75	0.42	0.06	----
18229	5/16" x 1/4"	0.66	0.81	0.47	0.07	----
18229B*	5/16" x 1/4"	0.69	0.84	0.57	0.08	----
18230	5/16" x 3/8"	0.75	0.91	0.47	0.10	----
18231	5/16" x 1/2"	0.84	1.12	0.56	0.12	----
18232	3/8" x 1/8"	0.72	0.66	0.39	0.06	----
18232B*	3/8" x 1/8"	0.69	0.69	0.57	0.06	----
18233	3/8" x 1/4"	0.75	0.82	0.46	0.08	----
18233B*	3/8" x 1/4"	0.75	0.94	0.57	0.08	----
18234	3/8" x 3/8"	0.81	0.94	0.46	0.10	----
18234B*	3/8" x 3/8"	0.71	0.83	0.69	0.10	----
18235	3/8" x 1/2"	0.87	1.12	0.56	0.14	----
18235B*	3/8" x 1/2"	0.88	1.16	0.94	0.14	----
18248	3/8" x 3/4"	1.03	1.19	0.81	0.18	----
18248B*	3/8" x 3/4"	1.03	1.20	0.86	0.16	----
18247	7/16" x 1/4"	0.84	1.00	0.56	0.14	----
18236	1/2" x 1/4"	0.88	0.97	0.56	0.14	----
18236B*	1/2" x 1/4"	0.85	0.94	0.07	0.17	----
18237	1/2" x 3/8"	0.88	1.03	0.56	0.19	----
18237B*	1/2" x 3/8"	0.94	1.12	0.70	0.19	----
18238	1/2" x 1/2"	0.94	1.13	0.59	0.17	----
18238B*	1/2" x 1/2"	0.94	1.31	0.86	0.17	----
18239	1/2" x 3/4"	1.16	1.25	0.81	0.18	----
18240	5/8" x 3/8"	1.06	1.12	0.68	0.18	----
18241	5/8" x 1/2"	1.06	1.16	0.68	0.20	----
18241B*	5/8" x 1/2"	1.06	1.31	0.86	0.20	----
18242	5/8" x 3/4"	1.16	1.31	0.81	0.24	----
18243	3/4" x 1/2"	1.19	1.31	0.94	0.26	----
18245	3/4" x 3/4"	1.19	1.38	0.94	0.30	----
18246	7/8" x 3/4"	1.25	1.38	0.94	0.35	----

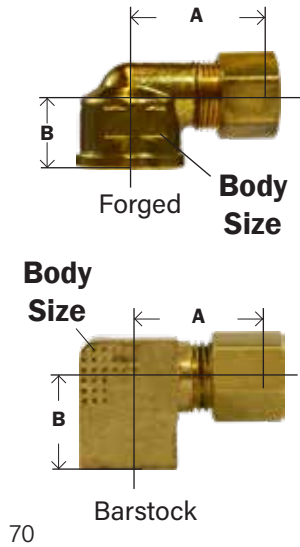
* Barstock

69 269C BSE1 169C

Dimension data can change without notice. Please check when dimensions are critical.

COMPRESSION**BRASS FITTINGS****FEMALE ELBOW**

SAE# 060203

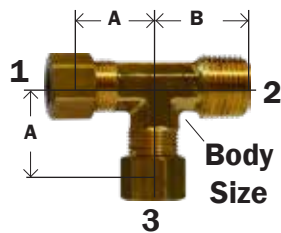


70

PART #	COMP. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18251	1/8" x 1/8"	0.69	0.56	0.56	0.04	----
18251B*	1/8" x 1/8"	0.69	0.60	0.57	0.06	----
18252	3/16" x 1/8"	0.69	0.47	0.56	0.04	----
18252B*	3/16" x 1/8"	0.60	0.60	0.58	0.07	----
18253	1/4" x 1/8"	0.69	0.47	0.56	0.06	----
18253B*	1/4" x 1/8"	0.69	0.56	0.56	0.06	----
18254	1/4" x 1/4"	0.75	0.50	0.72	0.08	----
18254B*	1/4" x 1/4"	0.72	0.85	0.68	0.13	----
18267	1/4" x 3/8"	0.81	0.58	0.81	0.08	----
18268	1/4" x 1/2"	0.89	0.66	1.00	0.10	----
18255	5/16" x 1/8"	0.72	0.84	0.47	0.08	----
18256	5/16" x 1/4"	0.78	0.50	0.72	0.09	----
18257	3/8" x 1/8"	0.75	0.84	0.47	0.10	----
18258	3/8" x 1/4"	0.84	0.59	0.75	0.10	----
18259	3/8" x 3/8"	0.88	0.58	0.81	0.12	----
18260	3/8" x 1/2"	0.97	0.66	1.00	0.14	----
18250	3/8" x 3/4"	1.09	0.72	1.25	0.18	----
18261	1/2" x 1/4"	1.06	0.70	0.88	0.18	----
18262	1/2" x 3/8"	1.00	0.70	0.88	0.16	----
18263	1/2" x 1/2"	1.03	0.72	1.00	0.20	----
18270	1/2" x 3/4"	1.16	0.72	1.25	0.23	----
18269	5/8" x 3/8"	1.09	0.77	1.00	0.20	----
18264	5/8" x 1/2"	1.09	0.77	1.00	0.22	----
18265	5/8" x 3/4"	1.22	0.77	1.25	0.24	----
18266	3/4" x 1/2"	1.25	1.25	0.94	0.28	----

* Barstock

70 270C BSE3 170C

FORGED MALE RUN TEE

71

PART #	COMP. X MALE NPTF (1&3) X 2	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18272	1/8" x 1/8"	0.63	0.69	0.36	0.06	----
18273	3/16" x 1/8"	0.63	0.69	0.36	0.07	----
18273B*	3/16" x 1/8"	0.63	0.69	0.36	0.06	----
18274B*	1/4" x 1/8"	0.63	0.75	0.36	0.07	----
18274	1/4" x 1/8"	0.63	0.75	0.36	0.08	----
18275	1/4" x 1/4"	0.69	0.88	0.44	0.10	----
18276	5/16" x 1/8"	0.72	0.75	0.50	0.10	----
18277	5/16" x 1/4"	0.75	0.88	0.44	0.10	----
18278	3/8" x 1/8"	0.75	0.75	0.50	0.14	----
18279	3/8" x 1/4"	0.79	0.87	0.44	0.18	----
18280	3/8" x 3/8"	0.88	1.00	0.47	0.20	----
18281	1/2" x 3/8"	0.94	1.09	0.59	0.24	----
18282	1/2" x 1/2"	0.97	1.19	0.69	0.26	----
18283	5/8" x 1/2"	1.06	1.31	0.69	0.28	----
18284	3/4" x 1/2"	1.22	1.34	0.88	0.30	----

* Barstock

71 171C BST3

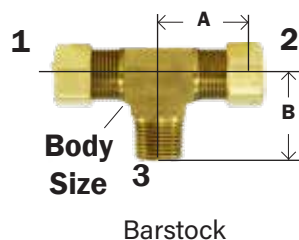
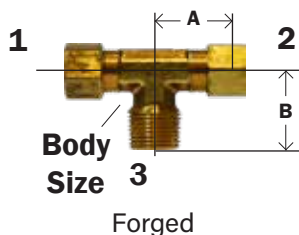
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

BRASS FITTINGS

MALE BRANCH TEE

SAE# 060425



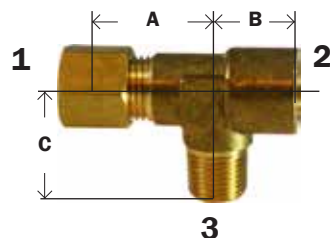
72

PART #	COMP. X MALE NPTF (1&2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18290	3/16" x 1/8"	0.63	0.69	0.36	0.08	----
18291	1/4" x 1/8"	0.62	0.75	0.36	0.10	----
18291B*	1/4" x 1/8"	0.64	0.73	0.45	0.10	----
18292	1/4" x 1/4"	0.69	0.86	0.44	0.10	----
18293	5/16" x 1/8"	0.72	0.75	0.50	0.11	----
18294	5/16" x 1/4"	0.75	0.88	0.44	0.12	----
18295	3/8" x 1/8"	0.75	0.75	0.50	0.14	----
18296	3/8" x 1/4"	0.78	0.88	0.44	0.16	----
18297	3/8" x 3/8"	0.78	0.97	0.47	0.18	----
18298	3/8" x 1/2"	0.88	1.22	0.69	0.20	----
18304	1/2" x 1/4"	0.94	0.97	0.59	0.22	----
18299B*	1/2" x 3/8"	0.96	1.09	0.70	0.24	----
18299	1/2" x 3/8"	0.94	1.12	0.59	0.24	----
18300	1/2" x 1/2"	0.97	1.19	0.69	0.30	----
18301	5/8" x 1/2"	1.06	1.31	0.69	0.32	----
18302	3/4" x 1/2"	1.22	1.34	0.88	0.50	----
18303	3/4" x 3/4"	1.25	1.50	0.88	0.54	----

* Barstock

72 BST1 172C

FORGED TEE

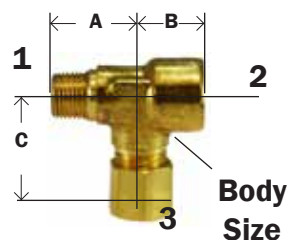


75

PART #	COMP. X FEMALE NPTF X MALE NPTF 1X(2&3)	A	B	C	APPROX. WT. LBS.	LIST PRICE
18307	1/4" x 1/8"	0.72	0.53	0.72	0.20	----

BST3

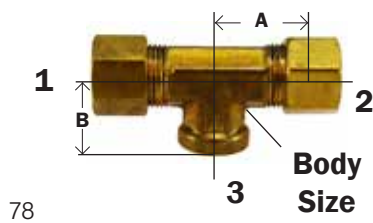
ADAPTER TEE



76

PART #	MALE NPTF X FEMALE NPTF X COMP. (1&2)X3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18314	1/8" x 1/4"	0.72	0.53	0.72	0.47	0.08	----
18316	3/8" x 1/4"	0.84	0.97	0.81	0.47	0.10	----

76 176C

COMPRESSION**BRASS FITTINGS****FEMALE BRANCH FORGED TEE**

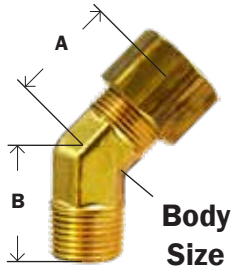
78

PART #	COMP. X FEMALE NPTF (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18321	1/4" x 1/8"	0.78	0.75	0.45	0.10	----
18328	1/4" x 1/4"	0.78	0.75	0.44	0.12	----
18325	3/8" x 1/8"	0.75	0.63	0.50	0.12	----
18322	3/8" x 1/4"	0.81	0.97	0.47	0.14	----
18323	3/8" x 3/8"	0.97	0.69	1.05	0.16	----
18326	1/2" x 1/8"	0.94	0.75	0.59	0.20	----
18324	1/2" x 3/8"	1.00	0.72	0.88	0.22	----
18327	5/8" x 1/8"	1.06	0.81	0.69	0.26	----

78 BST4 77 177C 2908

45° ELBOW

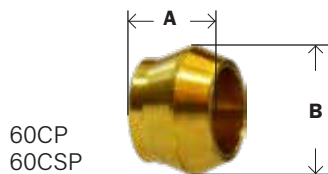
SAE# 060302



6945

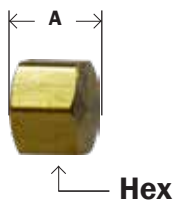
PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18329	3/16" x 1/8"	0.40	0.63	0.41	0.04	----
18330	1/4" x 1/8"	0.40	0.61	0.41	0.04	----
18336	1/4" x 1/4"	0.59	0.84	0.53	0.06	----
18331	5/16" x 1/8"	0.59	0.65	0.53	0.06	----
18332	5/16" x 1/4"	0.59	0.83	0.53	0.08	----
18333	3/8" x 1/4"	0.62	0.83	0.53	0.08	----
18338	3/8" x 3/8"	0.75	0.95	0.59	0.10	----
18334	1/2" x 3/8"	0.75	0.88	0.59	0.14	----
18339	1/2" x 1/2"	0.94	1.14	0.75	0.14	----
18335	5/8" x 1/2"	0.78	1.14	0.78	0.14	----

6945 45BSE1 74 179C 273 77

COMPRESSION PLUG60CP
60CSP

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18028	1/4"	0.30	0.34	0.01	----
18029	3/8"	0.31	0.47	0.04	----
18032	5/16"	0.40	0.40	0.01	----
18030	1/2"	0.34	0.59	0.06	----
18031	5/8"	0.45	0.72	0.04	----

CSP

CAP61CC
61CX

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18047	1/4"	0.44	0.50	0.02	----
18048	3/8"	0.40	0.62	0.04	----
18049	1/2"	0.48	0.75	0.06	----
18050	5/8"	0.56	0.94	0.10	----

61-CC N5CT

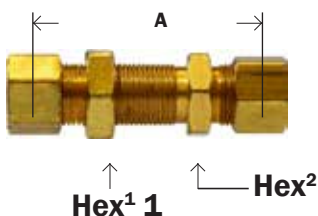
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

BRASS FITTINGS

BULKHEAD UNIONS

SAE# 060101

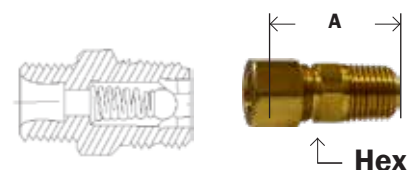


62BH

PART #	SIZE	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
18088	1/4"	1.58	0.56	0.56	0.10	----
18090	3/8"	1.76	0.68	0.68	0.14	----
18093	5/8"	2.01	1.000	0.94	0.32	----

62BH 75 274

BALL CHECK VALVE - MIN. WORKING PRESSURE 3 PSI.

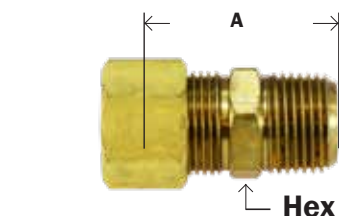


63

PART #	TUBE OD X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18092	1/8" x 1/8"	0.78	0.44	0.04	----
18094	1/4" x 1/8"	0.88	0.44	0.04	----
18096	3/8" x 1/4"	1.16	0.56	0.08	----

63 263 63A

TANK ADAPTER DRILLED THRU (NO STOP)



68T

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18208	1/4" x 1/8"	0.88	0.43	0.04	----
18209	1/4" x 1/4"	0.99	0.56	0.05	----
18210	3/8" x 1/4"	1.16	0.56	0.05	----
18211	3/8" x 3/8"	1.09	0.68	0.08	----
18212	3/8" x 1/2"	1.19	0.87	0.10	----
18213	1/2" x 3/8"	1.22	0.68	0.12	----
18214	1/2" x 1/2"	1.09	0.81	0.14	----
18215	5/8" x 1/2"	1.12	0.81	0.18	----

68-T 682C 80F

Middle age is when your broad mind and narrow waist begin to change places.

- E. Joseph Cossman

DOUBLE COMPRESSION

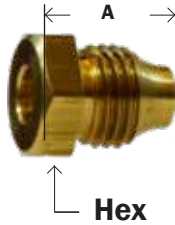
BRASS FITTINGS

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



181

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
16001	1/8"	0.50	0.37	0.02	----
16002	3/16"	0.53	0.43	0.02	----
16003	1/4"	0.56	0.50	0.04	----
16004	5/16"	0.61	0.56	0.04	----
16005	3/8"	0.61	0.62	0.04	----
16006	1/2"	0.90	0.69	0.05	----
16007	5/8"	1.07	0.88	0.06	----

181 6100 11

MALE ADAPTER

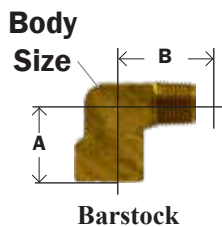
188
26200

PART #	THRD SLEEVE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
16117	1/8" x *	0.62	0.43	0.02	----
16118	1/8" x 1/8"	0.62	0.43	0.02	----
16119	3/16" x 1/8"	0.69	0.43	0.02	----
16121	1/4" x 1/8"	0.75	0.50	0.04	----
16120	1/4" x 1/4"	1.06	0.56	0.05	----
16122	5/16" x 1/8"	0.89	0.56	0.04	----
16125	5/16" x 1/4"	1.09	0.56	0.05	----
16123	3/8" x 1/4"	0.84	0.62	0.06	----

* 1/4 - 28 Male Thread Tapered.

188 6200 12

90° ELBOW

189
26400

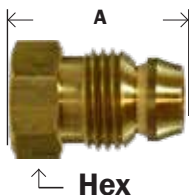
PART #	THRD SLEEVE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
16127	1/8" x *	0.50	0.52	0.41	0.02	----
16128	1/8" x 1/8"	0.50	0.66	0.43	0.02	----
16129	3/16" x 1/8"	0.56	0.62	0.44	0.02	----
16130	1/4" x 1/8"	0.52	0.62	0.50	0.04	----
16131	5/16" x 1/8"	0.75	0.81	0.56	0.09	----
16133	3/8" x 1/4"	0.88	1.00	0.56	0.13	----

* 1/4 - 28 Male Thread Tapered

189 6400 15

BREAK-AWAY NUT

- 1-Piece Fiting

181SP
21604

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
16009	1/8"	0.66	0.31	0.02	----
16090	3/16"	0.57	0.37	0.02	----
16010	1/4"	0.62	0.43	0.02	----
16011	5/16"	0.77	0.50	0.04	----
16012	3/8"	0.84	0.56	0.04	----

181-BA 21604 99LB 81LB

SPLIT SLEEVE FITTINGS

BRASS FITTINGS

BRASS SPLIT SLEEVE D.O.T. FITTINGS (5/32 O.D.)

TRANSMISSION BRASS FITTINGS

APPLICATIONS: Used with SAE J844 Type A nylon tube in pressure protected air transmission applications.
TECHNICAL DATA: Maximum working pressure up to 150 PSI. Fittings will withstand variations from -40°F to +220°F (-40°C to + 104°C)

Ideally suited for use in passive protected air transmission applications. A specially designed slotted sleeve helps eliminate notch stress related to over torque. **25 prefix parts do not have a stake, use 38 part # with white sealant only.**

COLLET



PART #	TUBE O.D.	LIST PRICE
38711	5/32"	----
25001	1/8"	----
25002	3/16"	----
25003	1/4"	----

1460 90791 280 90946

NUT



PART #	TUBE O.D.	LIST PRICE
38732	5/32"	----
25033	1/8"	----

1461 90790 281 90885

DOUBLE END UNION



PART #	TUBE O.D.	LIST PRICE
38761	5/32"	----
25062	1/8"	----
25064	1/4"	----

1462 90792 283 90891

CONNECTOR WITH NUT AND SLEEVE



PART #	TUBE O.D.	PIPE THREAD	LIST PRICE
38769	5/32"	1/16"	----
38770	5/32"	1/8"	----
25175	1/8"	1/16"	----
25176	1/8"	1/8"	----
25177	3/16"	1/8"	----
25179	1/4"	1/8"	----

• Shipped with nut and split sleeve, picture shows insert 1468 90794 282 90985

ELBOW



PART #	TUBE O.D.	PIPE THREAD	LIST PRICE
38715	5/32"	1/16"	----
38718	5/32"	1/8"	----
25220	1/8"	1/8"	----
25219	1/8"	1/16"	----
25221	3/16"	1/8"	----
25224	1/4"	1/8"	----

284

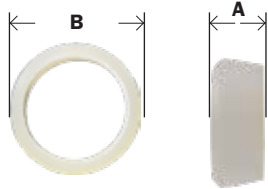
SPECIAL COMPRESSION ASSEMBLIES

BRASS FITTINGS

To purchase special compression assemblies, delete the 18 prefix on part# and add the prefix of the type of special assembly you desire. Pricing and availability upon request.

- 22 - Plastic sleeve (inserts should be ordered separately)
- 24 - Long nut compression
- 26 - Captive sleeve (parts listed on following pages)
- 27 - Self align sleeve

DELRIN SLEEVE



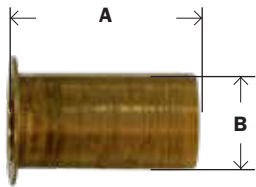
60P

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18015	1/4"	0.19	0.37	0.01	----
18016	5/16"	0.19	0.43	0.01	----
18017	3/8"	0.19	0.50	0.02	----
18018	1/2"	0.25	0.63	0.02	----
18019	5/8"	0.22	0.74	0.02	----

60-P

BRASS INSERT

• SLEEVE



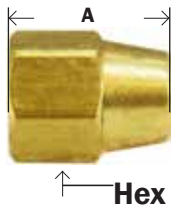
61P

63P

PART #	SIZE	A	B	APPROX. WT. LBS.	WALL	LIST PRICE
22008	1/8"	0.46	0.080	0.01	.016	----
22008A	1/8"	0.465	0.073	0.01	.023	----
22009	3/16"	0.45	0.135	0.01	.025	----
22009A	3/16"	0.52	0.095	0.01	.040	----
22010	1/4"	0.50	0.163	0.02	.04	----
22010A	1/4"	0.59	0.125	0.02	.04	----
22010B	1/4"	0.53	0.172	0.02	.03	----
22011A	5/16"	0.50	0.232	0.02	.04	----
22011	5/16"	0.53	0.187	0.02	.062	----
22012	3/8"	0.56	0.250	0.03	.062	----
22013	1/2"	0.72	0.370	0.03	.062	----
22014	5/8"	0.72	0.483	0.03	.062	----
22015	3/4"	1.03	0.563	0.03	.03	----

63-BI 60AE 2030 63PT

LONG NUT COMPRESSION - CAN BE ASSEMBLED ON ANY COMPRESSION FITTING



161

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10013	1/8"	0.50	0.37	0.01	----
24002	3/16"	0.62	0.43	0.01	----
24003	1/4"	0.75	0.50	0.02	----
24004	5/16"	0.84	0.56	0.02	----
24005	3/8"	0.97	0.62	0.04	----
24006	1/2"	1.06	0.81	0.06	----
24007	5/8"	1.19	0.94	0.11	----

161

SELF-ALIGN SLEEVES



PART #	SIZE	LIST PRICE
27001	1/8"	----
27002	3/16"	----
27003	1/4"	----

860 601

PART #	SIZE	LIST PRICE
27005	3/8"	----
27006	1/2"	----

860

• More sizes available

CAPTIVE SLEEVE COMPRESSION

BRASS FITTINGS

CAPTIVE SLEEVE NUT

61SA
61CS



PART #	SIZE	LIST PRICE
26001	1/8"	----
26002	3/16"	----
26003	1/4"	----
26004	5/16"	----
26005	3/8"	----
26007	1/2"	----

62SA

UNION



PART #	SIZE	LIST PRICE
26062	1/8"	----
26063	3/16"	----
26064	1/4"	----
26065	5/16"	----
26066	3/8"	----
26079	3/8" x 1/4"	----
26068	1/2"	----

64SA

TEE



PART #	SIZE	LIST PRICE
26102	3/16"	----
26103	1/4"	----

66SA



PART #	COMP. X FEMALE NPTF	LIST PRICE
26142	1/8" x 1/8"	----
26145	1/4" x 1/8"	----
26146	1/4" x 1/4"	----
26153	3/8" x 1/4"	----

MALE ADAPTER

68SA



PART #	COMP. X MALE NPTF	LIST PRICE
26175	1/8" x 1/16"	----
26176	1/8" x 1/8"	----
26177	3/16" x 1/8"	----
26178	3/16" x 1/4"	----
26179	1/4" x 1/8"	----
26180	1/4" x 1/4"	----
26180L	1/4" x 1/4"	----
26181	1/4" x 3/8"	----
26182	1/4" x 1/2"	----
26183	5/16" x 1/8"	----
26184	5/16" x 1/4"	----
26188	3/8" x 1/4"	----
26189	3/8" x 3/8"	----
26190	3/8" x 1/2"	----
26193	1/2" x 1/4"	----
26194	1/2" x 3/8"	----
26195	1/2" x 1/2"	----
26198	5/8" x 1/2"	----

MALE ELBOW



69SA

PART #	COMP. X MALE NPTF	LIST PRICE
26220	1/8" x 1/8"	----
26220B	1/8" x 1/8"	----
26221B	3/16" x 1/8"	----
26221	3/16" x 1/8"	----
26224B	1/4" x 1/8"	----
26224	1/4" x 1/8"	----
26223	3/16" x 1/4"	----
26225	1/4" x 1/4"	----
26225B	1/4" x 1/4"	----
26226	1/4" x 3/8"	----
26228	5/16" x 1/8"	----
26229	5/16" x 1/4"	----
26232	3/8" x 1/8"	----
26233	3/8" x 1/4"	----
26233B	3/8" x 1/4"	----
26234	3/8" x 3/8"	----
26235	3/8" x 1/2"	----
26237	1/2" x 3/8"	----
26238	1/2" x 1/2"	----

MALE BRANCH TEE

72SA



PART #	COMP. X MALE NPTF (1&2) X 3	LIST PRICE
26291	1/4" x 1/8"	----
26292	1/4" x 1/4"	----
26293	5/16" x 1/8"	----
26296	3/8" x 1/4"	----

CS72 172CA

CAPTIVE SLEEVE X MALE PIPE ANGLE NEEDLE VALVE



PART #	COMP X MALE PIPE	LIST PRICE
26011	1/4" x 1/8"	----
26014	5/16" x 1/4"	----

CAPTIVE SLEEVE X CAPTIVE SLEEVE NEEDLE VALVE



PART #	COMP X COMP	LIST PRICE
26021	1/4"	----
26023	3/8"	----

Interchangeable with compress-align fittings.

These are NOT Lead Free Lead Free products available upon request

- More sizes available
- Lead Free - add LF to part #

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

FLARELESS FITTINGS

Flareless Brass Tube Fittings are Interchangeable with Poly-Flo®, Poly-Tite® and Poly-Line® and Poly-Fit®



Built-in SS
Tube Support

Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2
Thread Size-B	5/16-24	3/8-24	3/8-24	7/16-24	1/2-24	1 1/2-20

•Typical Application

Pneumatic instrumentation circuits, lubricant and cooling lines.

•Working Pressure and Temperature Ranges

Up to 150 PSI from 0°F to + 150°F with thermoplastic tubing. Up to 300 PSI from 0°F to + 175°F with soft metal tubing.

•Maximum allowable metal tube wall thickness for use with Poly-Tite fittings:

1/8", 3/16" O.D. --no limitation,
1/4" O.D.--.035 5/16", 3/8", 1/2" O.D.--.049

•Vibration

Excellent Resistance.

•Temperature Range

Depends on tubing used. -65°F to +250°F (-53°C to +121°C) with brass sleeve, -40°F to +150°F (-40°C to +66°C) with plastic sleeve. (Refer to tubing temperature range.)

•Used With

Aluminum & copper tubing. Hard plastic tubing requires brass sleeve. Not recommended for steel tubing.

• Tolerance

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

sions are critical.

•Advantages

No flaring of tubing required. Easy installation, captive sleeve, pre-assembled for installation and can be reassembled. Nuts rotate around the sleeve during tightening, preventing twisting of tubing.

•Assembly Instructions

- 1- Cut tubing to desired length.
- 2- Slide nut/sleeve assembly on tube. Threaded end "A" of nut must face toward fitting.
- 3- Bottom tubing into fitting.
- 4- Plastic sleeve - Tighten nut hand tight.
Brass Sleeve - Tighten nut hand tight, then an additional 3/4 turn.

* Note: 1/8 and 3/16 sizes have brass sleeves

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLARELESS

BRASS FITTINGS

NUT AND PLASTIC SLEEVE ASSEMBLY



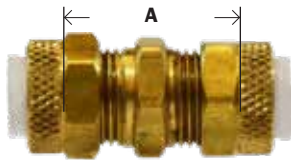
MP61P
261PF

Hex

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	LIST PRICE
20211	1/4"	3/8-24	0.34	0.43	0.02	----
20212	5/16"	7/16-24	0.45	0.50	0.02	----
20213	3/8"	1/2-24	0.38	0.56	0.04	----
20214	1/2"	11/16-20	0.42	0.81	0.04	----

261PF 1261 61PN

UNION



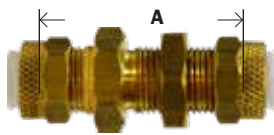
MP62
262PF

Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20240	1/8"	0.66	0.31	0.02	----
20241	3/16"	0.75	0.37	0.04	----
20242	1/4"	0.69	0.37	0.04	----
20243	5/16"	0.69	0.44	0.04	----
20244	3/8"	0.72	0.50	0.10	----
20200	3/8" x 1/4"	0.72	0.50	0.08	----
20245	1/2"	0.84	0.69	0.14	----

262PF 1262 62P 262P

BULKHEAD UNION



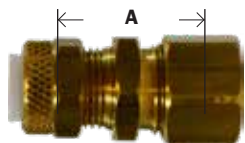
MP82
282PF

Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20337	1/4"	1.25	0.56	0.06	----
20338	5/16"	1.25	0.62	0.08	----
20339	3/8"	1.31	0.69	0.10	----

62PBH 329P 282P

UNION TUBE #M62C - FLARELESS X STANDARD COMPRESSION



MP62C
262PFC

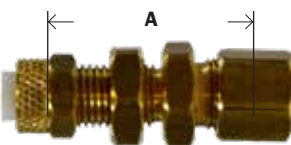
Hex¹

Hex²

PART #	TUBE O.D.	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
20235	1/4"	0.75	0.44	0.50	0.04	----
20237	3/8"	0.84	0.62	0.62	0.08	----

262S 62PCA 262PC

BULKHEAD UNION - FLARELESS X COMPRESSION

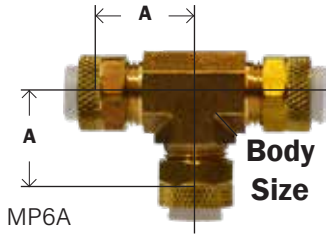


MP827
282PFC

Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20333	1/4"	1.31	0.56	0.07	----
20334	3/8"	1.44	0.69	0.12	----

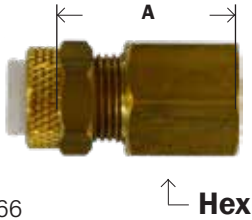
1274

FLARELESS**BRASS FITTINGS****UNION TEE**MP6A
264PF

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20248	1/8"	0.62	0.31	0.02	----
20249	3/16"	0.62	0.31	0.04	----
20250	1/4"	0.73	0.44	0.06	----
20251	5/16"	0.62	0.37	0.08	----
20252	3/8"	0.86	0.56	0.08	----
20330*	3/8" x 1/4"	0.72	0.44	0.08	----
20253	1/2"	0.81	0.62	0.24	----

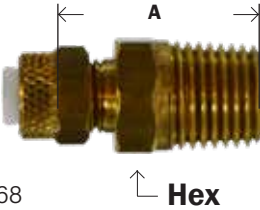
* Reducing Branch

1264 164P 264P

FEMALE CONNECTORMP66
266PF

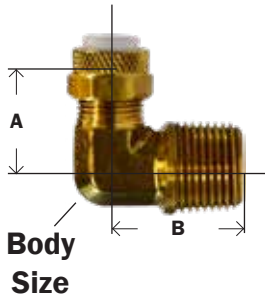
PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20256	1/8" x 1/8"	0.75	0.56	0.03	----
20257	3/16" x 1/8"	0.78	0.56	0.05	----
20259	1/4" x 1/8"	0.76	0.50	0.04	----
20260	1/4" x 1/4"	1.08	0.62	0.05	----
20261	5/16" x 1/8"	0.75	0.50	0.03	----
20265	3/8" x 1/8"	0.77	0.56	0.05	----
20262	3/8" x 1/4"	0.94	0.62	0.05	----
20263	1/2" x 3/8"	1.00	0.81	0.12	----

1266 66P 266P

MALE CONNECTORMP68
268PF

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20268	1/8" x 1/8"	0.80	0.34	0.04	----
20269	3/16" x 1/8"	0.86	0.44	0.04	----
20270	1/4" x 10/32"				
20271	1/4" x 1/8"	0.82	0.44	0.03	----
20272	1/4" x 1/4"	1.00	0.56	0.05	----
20273	1/4" x 3/8"	1.03	0.69	0.08	----
20274	5/16" x 1/8"	0.81	0.44	0.04	----
20275	5/16" x 1/4"	1.00	0.56	0.05	----
20276	3/8" x 1/8"	1.00	0.56	0.06	----
20277	3/8" x 1/4"	1.03	0.56	0.08	----
20278	3/8" x 3/8"	1.03	0.69	0.10	----
20279	1/2" x 3/8"	1.09	0.69	0.16	----
20282	1/2" x 1/2"	1.33	0.88	0.18	----

1268 68P 268P

MALE ELBOWMP69
269PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20287	1/8" x 1/8"	0.62	0.69	0.31	0.02	----
20288	3/16" x 1/8"	0.62	0.69	0.37	0.04	----
20289*	1/4" x 1/8"	0.53	0.73	0.50	0.04	----
20290	1/4" x 1/4"	0.66	0.94	0.37	0.06	----
20291	1/4" x 3/8"	0.75	1.03	0.50	0.10	----
20292	5/16" x 1/8"	0.62	0.75	0.41	0.04	----
20293	3/8" x 1/8"	0.79	0.73	0.37	0.08	----
20294	3/8" x 1/4"	0.72	0.94	0.44	0.10	----
20295	3/8" x 3/8"	0.78	1.03	0.50	0.14	----
20296	1/2" x 3/8"	1.09	1.10	0.73	0.16	----

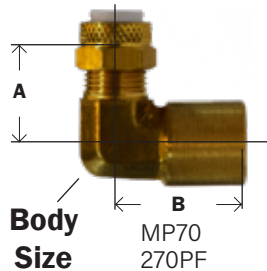
* Barstock

1269 169P 269P

FLARELESS

BRASS FITTINGS

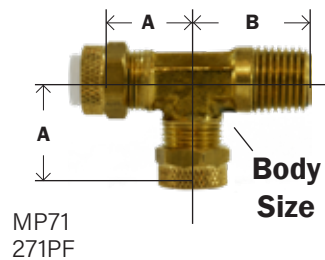
FEMALE ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20300	1/8" x 1/8"	0.69	0.55	0.56	0.02	----
20301	3/16" x 1/8"	0.72	0.55	0.56	0.02	----
20302	1/4" x 1/8"	0.62	0.75	0.37	0.08	----
20303	1/4" x 1/4"	0.72	0.88	0.50	0.10	----
20304	3/8" x 1/4"	0.72	0.88	0.50	0.12	----
20305	1/2" x 3/8"	0.91	0.94	0.63	0.16	----

1270 170P

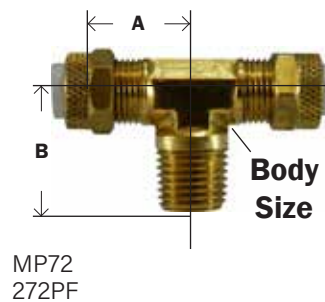
MALE RUN TEE



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20308	1/8" x 1/8"	0.62	0.69	0.31	0.04	----
20309	3/16" x 1/8"	0.62	0.69	0.31	0.04	----
20310	1/4" x 1/8"	0.62	0.75	0.37	0.08	----
20311	1/4" x 1/4"	0.66	0.94	0.37	0.10	----
20312	5/16" x 1/8"	0.62	0.75	0.37	0.08	----
20313	3/8" x 1/4"	0.66	0.94	0.44	0.10	----
20314	1/2" x 3/8"	0.81	1.06	0.63	0.16	----

1271 171P

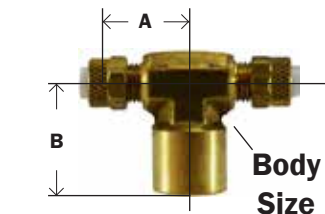
MALE BRANCH TEE



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20317	1/8" x 1/8"	0.63	0.69	0.31	0.04	----
20318	3/16" x 1/8"	0.63	0.69	0.31	0.04	----
20319	1/4" x 1/8"	0.63	0.75	0.37	0.07	----
20320	1/4" x 1/4"	0.66	0.94	0.37	0.09	----
20321	5/16" x 1/8"	0.63	0.75	0.37	0.10	----
20322	3/8" x 1/8"	0.63	0.75	0.44	0.08	----
20323	3/8" x 1/4"	0.66	0.94	0.44	0.11	----
20324	1/2" x 3/8"	0.81	1.06	0.63	0.21	----

1272 172P 272P

FEMALE BRANCH TEE



PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20327	1/4" x 1/8"	0.66	0.94	0.37	0.12	----
20328	1/4" x 1/4"	0.84	1.16	0.56	0.16	----

1277 177P 277P

MP77
277PF

Dimension data can change without notice. Please check when dimensions are critical.

FLARELESS

BRASS FITTINGS

UNIVERSAL NUT AND BRASS SLEEVE ASSEMBLY

MP61B
261PFB

PART #	TUBE O.D.	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20227	1/8"	5/16-24	0.37	0.37	0.02	----
20228	3/16"	3/8-24	0.41	0.44	0.02	----
20229	1/4"	3/8-24	0.34	0.43	0.02	----
20230	5/16"	7/16-24	0.34	0.50	0.02	----
20231	3/8"	1/2-24	0.37	0.56	0.04	----
20232	1/2"	11/16-20	0.42	0.81	0.04	----

261PFB 1261B 61PB 261UB

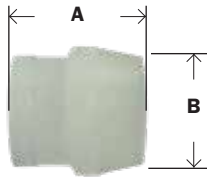
NUT

MP61
261FPN

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	LIST PRICE
20218	1/8"	5/16-24	0.37	0.37	0.01	----
20219	3/16"	3/8-24	0.41	0.44	0.01	----
20220	1/4"	3/8-24	0.34	0.44	0.02	----
20221	5/16"	7/16-24	0.34	0.50	0.02	----
20222	3/8"	1/2-24	0.38	0.56	0.04	----
20223	1/2"	11/16-20	0.42	0.81	0.06	----

61PN 1261 261FPN

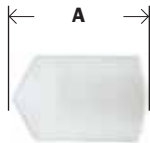
PLASTIC SLEEVE

MP60
260PF

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20205	1/4"	0.34	0.26	0.01	----
20206	5/16"	0.39	0.32	0.01	----
20207	3/8"	0.41	0.38	0.01	----
20208	1/2"	0.44	0.51	0.01	----

260FF 1260 60P 260P

PLASTIC CAP

MP59
269PF

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
20201	1/4"	0.50	0.01	----
20203	3/8"	0.56	0.01	----
20204	1/2"	0.59	0.01	----

1229 59P 259P

Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

PUSH-IN/ PUSH-TO-CONNECT FITTINGS

BRASS PUSH-IN



NICKEL PLATED BRASS PUSH-IN



BALL VALVES FOR N/P PUSH-IN



METRIC N/P BRASS PUSH-IN



COMPOSITE BODY PUSH-IN



COMPOSITE BODY METRIC PUSH-IN



FDA PLASTIC PUSH-IN



DOT BRASS PUSH-IN



DOT COMPOSITE PUSH-IN



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BRASS

BRASS PUSH-IN FITTINGS

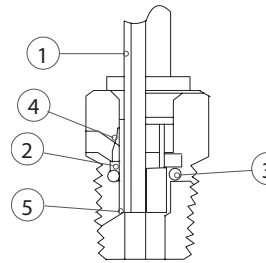
BRASS FITTINGS

BRASS PUSH-IN FITTINGS



ENGINEERING AND DESIGN

- **QUICK CONNECT**, simply push tubing in, no tools. Saves up to 75% of assembly time of standard compression fittings.
- **QUICK DISCONNECT**, hold two fingers on insert and pull tubing out, no tools required.
- **REUSEABLE**, connect and disconnect numerous times.
- **FULL FLOW DESIGN**, provides up to 60% more flow area than conventional fittings with internal tube supports.
- **POSITIVE SEAL**, no leaks. After tubing is inserted, seal is made.
- **VERSATILE**, BunaN "O" rings standard. Other materials of "O" rings available.
- **SECURE TUBE RETENTION**, pulling on tubing only serves to tighten the connection.
- **SELF CONTAINED ASSEMBLY**, no loose parts, brass body and insert.
- **BRASS CONSTRUCTION**, elbows and tees are forged brass.
- **CHOICE** of convenient swivel or economical stationary elbows and tees.
- **STRAIGHT CONNECTORS** have interior hex for Allen key tightening where space is limited...no need to use a wrench.
- **PRE-APPLIED TEFLON**® based pipe sealant on all male pipe threads, saving customer additional labor.
- **METRIC SIZES AVAILABLE**: Metric tube sizes from 2mm through 12mm in both standard NPT and metric pipe sizes are available on a special order basis.
- **WORKING TEMPERATURE**:
-10°F to 200°F (other ranges available on request).
- **PIPE THREAD**: NPTF with Teflon® based sealant pre-applied.



When tubing (1) is inserted into the fitting, it first passes through the gripping teeth (2). Just beyond the gripping teeth is the o-ring (3) which provides the leak proof seal against the OD of the tube. The gripping teeth grab the tube, which

expands the insert. Pulling back on the tube only tightens the grip as the insert moves onto the camming surface (4). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (5) in a cavity providing tube support to prevent leakage.

• Tolerance

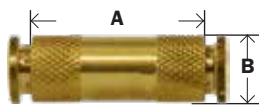
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

UNION CONNECTOR

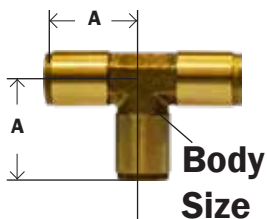


AQ62P
MQ62

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20017	1/8"	1.07	0.38	0.03	----
20018	5/32"	1.07	0.38	0.03	----
20019	1/4"	1.50	0.44	0.05	----
20022	3/8" x 1/4"	1.46	0.56	0.05	----
20020	3/8"	1.44	0.56	0.06	----
20021	1/2"	1.63	0.81	0.18	----

AQ62 6580 3106 62PL KQH 12-020 50-562 262-OF 1162 262PP

UNION TEE



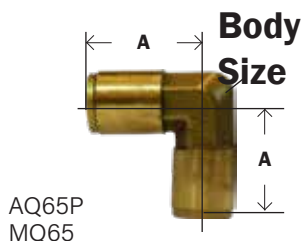
AQ64P
MQ64

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20025	1/8"	0.65	0.31	0.04	----
20026	5/32"	0.67	0.31	0.04	----
20027	3/16"	0.75	0.37	0.06	----
20028	1/4"	0.92	0.37	0.09	----
20031*	5/16"	0.89	0.49	0.10	----
20029	3/8"	0.98	0.50	0.13	----
20030	1/2"	1.16	0.62	0.24	----

* Nickel Plated

KQT 12-060 50-564 264OF 264PP 1164 AQ64 6540 3140

UNION ELBOW

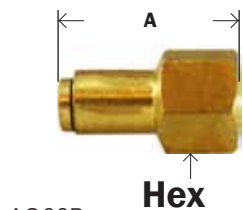


AQ65P
MQ65

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20150	1/8"	0.65	0.31	0.02	----
20151	5/32"	0.67	0.31	0.04	----
20152	1/4"	0.87	0.37	0.06	----
20155	5/16"	0.91	0.47	0.08	----
20153	3/8"	0.97	0.50	0.09	----
20154	1/2"	1.15	0.62	0.18	----

AQ65 6550 3102 165PL KQL 12-040 50-565 265-OF

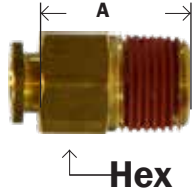
FEMALE CONNECTOR



AQ66P

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20032	1/8" x 1/8"	0.96	0.56	0.04	----
20038	1/8" x 1/4"	1.04	0.67	0.04	----
20012	5/32" x 1/8"	1.09	0.56	0.05	----
20034	1/4" x 1/8"	1.23	0.56	0.06	----
20035	1/4" x 1/4"	1.42	0.75	0.09	----
20036	3/8" x 1/4"	1.32	0.75	0.09	----
20037	3/8" x 3/8"	1.31	0.87	0.12	----

266PP AQ66 6463 3114 66PL 12-426 50-566 266-OF 1166

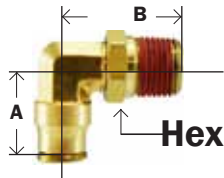
BRASS PUSH-IN FITTINGS**BRASS FITTINGS****MALE CONNECTOR**

AQ68P
MQ68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20047*	1/8" x 10-32"*	0.69	0.37	0.02	----
20045	1/8" x 1/16"	0.68	0.37	0.02	----
20048	1/8" x 1/8"	0.61	0.43	0.02	----
20023	1/8" x 1/4"	0.98	0.56	0.04	----
20049*	5/32" x 10-32"*	0.67	0.37	0.02	----
20050	5/32" x 1/8"	0.67	0.43	0.03	----
20046	5/32" x 1/4"	0.85	0.56	0.05	----
20051*	3/16" x 10-32"*	0.80	0.37	0.02	----
20052	3/16" x 1/8"	0.93	0.43	0.03	----
20053*	1/4" x 10-32"*	0.70	0.43	0.03	----
20039	1/4" x 1/16"	0.92	0.43	0.06	----
20054	1/4" x 1/8"	0.93	0.43	0.06	----
20055	1/4" x 1/4"	0.93	0.56	0.10	----
20056	1/4" x 3/8"	0.94	0.68	0.08	----
20530	5/16" x 1/8"	1.07	0.56	0.05	----
20531	5/16" x 1/4"	0.98	0.56	0.10	----
20532	5/16" x 3/8"	1.06	0.75	0.08	----
20057	3/8" x 1/8"	1.10	0.56	0.06	----
20058	3/8" x 1/4"	1.11	0.56	0.05	----
20059	3/8" x 3/8"	1.02	0.68	0.08	----
20062	3/8" x 1/2"	1.02	0.87	0.08	----
20060	1/2" x 1/4"	1.36	0.81	0.11	----
20061	1/2" x 3/8"	1.30	0.81	0.12	----
20063	1/2" x 1/2"	1.23	0.87	0.14	----

* Furnished with gaskets

268PP AQ68 6510 3115 68PL KQH 12-425 50-568 268-OF 1168

SWIVEL MALE ELBOW

AQ69PS
MQ69S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20079	1/8" x 1/8"	0.69	0.98	0.43	0.07	----
20535*	1/8" x 1/4"	0.76	0.87	0.56	0.06	----
20076**	5/32" x 10-32"	0.67	0.71	0.37	0.04	----
20080	5/32" x 1/8"	0.68	0.89	0.43	0.05	----
20077	5/32" x 1/4"	0.68	1.08	0.56	0.07	----
20078**	1/4" x 10-32"	0.86	0.79	0.31	0.05	----
20081	1/4" x 1/8"	0.90	0.93	0.37	0.08	----
20082	1/4" x 1/4"	0.90	0.99	0.56	0.10	----
20086	1/4" x 3/8"	0.98	1.14	0.68	0.09	----
20538*	5/16" x 1/4"	0.91	0.85	0.56	0.07	----
20539*	5/16" x 3/8"	0.91	0.87	0.75	0.08	----
20087	3/8" x 1/8"	1.00	1.06	0.43	0.09	----
20083	3/8" x 1/4"	0.99	1.15	0.56	0.10	----
20084	3/8" x 3/8"	1.00	1.24	0.68	0.20	----
20088	3/8" x 1/2"	1.00	1.54	0.87	0.19	----
20085	1/2" x 3/8"	1.16	1.34	0.68	0.18	----
20092	1/2" x 1/2"	1.16	1.51	0.87	0.24	----

* Nickel Plated

aq69-ps 56520 3109 169pl kql 12-447 50-579 269-OFs 11695

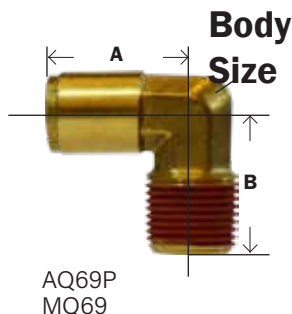
** Furnished with gaskets

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

FIXED MALE ELBOW

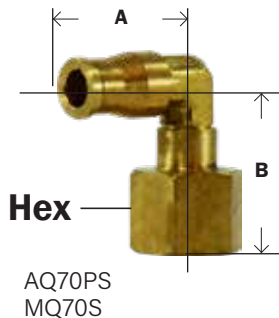


PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20065	1/8" x 1/8"	0.69	0.69	0.31	0.03	----
20066	5/32" x 1/8"	0.68	0.68	0.31	0.03	----
20067	3/16" x 1/8"	0.75	0.71	0.37	0.04	----
20068	1/4" x 1/8"	0.89	0.75	0.37	0.06	----
20069	1/4" x 1/4"	0.95	0.96	0.37	0.08	----
20070	1/4" x 3/8"	1.00	0.98	0.50	0.10	----
20071	3/8" x 1/8"	0.99	0.80	0.50	0.06	----
20072	3/8" x 1/4"	0.98	0.98	0.50	0.09	----
20073	3/8" x 3/8"	0.97	0.98	0.50	0.12	----
20074	1/2" x 1/4"	1.15	1.05	0.62	0.15	----
20075	1/2" x 3/8"	1.18	1.05	0.62	0.22	----
20064	1/2" x 1/2"	1.16	1.66	0.62	0.20	----

269PP AQ69-P 6500 169PLNS 12-445 1169

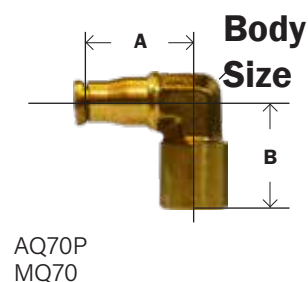
Dimension data can change without notice. Please check when dimensions are critical.

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	LIST PRICE
20094S	5/32" x 1/8"	0.76	1.06	0.56	----
20089S	1/4" x 1/8"	0.98	1.08	0.56	----
20090S	1/4" x 1/4"	0.98	1.26	0.75	----
20091S	3/8" x 1/4"	1.07	1.48	0.75	----

FEMALE ELBOW

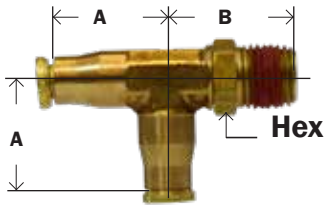


PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20192	1/8" x 1/8"	0.78	0.82	0.31	0.02	----
20094	5/32" x 1/8"	0.68	0.82	0.37	0.02	----
20089	1/4" x 1/8"	0.91	0.75	0.37	0.06	----
20090	1/4" x 1/4"	1.03	1.03	0.50	0.11	----
20091	3/8" x 1/4"	0.98	0.95	0.50	0.16	----

AQ70-P 3009

one Man with Courage makes a majority.

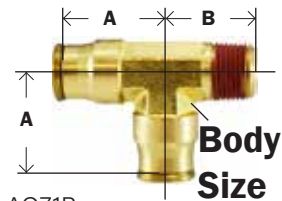
- Andrew Jackson

BRASS PUSH-IN FITTINGS**BRASS FITTINGS****SWIVEL MALE RUN TEE**

AQ71PS
MQ71S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20160	1/8" x 1/8"	0.65	0.86	0.43	0.08	----
20161	5/32" x 1/8"	0.67	1.04	0.43	0.09	----
20162	1/4" x 1/8"	0.92	1.04	0.44	0.09	----
20163	1/4" x 1/4"	0.92	1.13	0.56	0.11	----
20164	3/8" x 1/4"	0.94	1.19	0.56	0.11	----
20165	3/8" x 3/8"	0.96	1.24	0.50	0.12	----
20174	1/2" x 1/4"	1.12	1.18	0.51	0.16	----
20166	1/2" x 3/8"	1.14	1.31	0.68	0.14	----
20167	1/2" x 1/2"	1.14	1.61	0.87	0.16	----

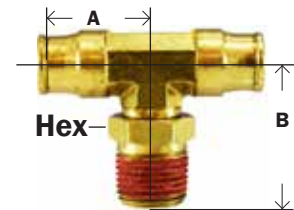
AQ71-PS 56440 3103 171PL KQY 12-468 50-571 271-OFS 1171S

FIXED MALE RUN TEE

AQ71P
MQ71

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20095	1/8" x 1/8"	0.65	0.72	0.31	0.04	----
20097	3/16" x 1/8"	0.75	0.73	0.37	0.06	----
20098	1/4" x 1/8"	0.92	0.74	0.37	0.08	----
20093	1/4" x 1/4"	0.92	0.92	0.43	0.10	----
20099	3/8" x 1/8"	0.94	0.82	0.50	0.14	----
20100	3/8" x 1/4"	0.98	0.98	0.50	0.12	----
20101	3/8" x 3/8"	1.05	1.05	0.62	0.10	----
20102	1/2" x 3/8"	1.14	1.05	0.62	0.18	----

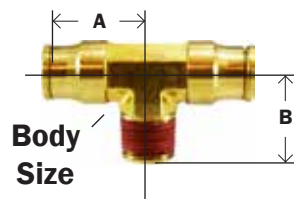
AQ71-P

SWIVEL MALE BRANCH TEE

AQ72PS
MQ72S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20103	1/8" x 1/8"	0.65	0.81	0.31	0.04	----
20104*	5/32" x 10-32"	0.65	0.71	0.31	0.04	----
20109	5/32" x 1/8"	0.67	0.94	0.37	0.06	----
20105	1/4" x 1/8"	0.92	0.97	0.43	0.08	----
20106	1/4" x 1/4"	0.92	1.09	0.55	0.10	----
20107	3/8" x 1/4"	0.96	1.14	0.56	0.18	----
20108	3/8" x 3/8"	0.96	1.23	0.69	0.16	----
20110	1/2" x 3/8"	1.16	1.34	0.69	0.24	----
20111	1/2" x 1/2"	1.16	1.64	0.87	0.28	----

* Furnished with gaskets

FIXED MALE BRANCH TEE

AQ72P
MQ72

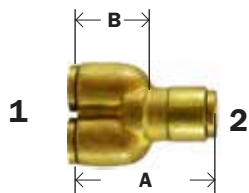
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20112	1/8" x 1/8"	0.69	0.72	0.31	0.04	----
20113	5/32" x 1/8"	0.69	0.65	0.31	0.04	----
20115	1/4" x 1/8"	0.92	0.74	0.37	0.12	----
20116	1/4" x 1/4"	0.91	0.91	0.43	0.10	----
20117	3/8" x 1/8"	0.98	0.80	0.50	0.08	----
20118	3/8" x 1/4"	0.98	0.97	0.50	0.12	----
20119	3/8" x 3/8"	0.98	0.97	0.50	0.14	----
20120	1/2" x 3/8"	1.16	1.05	0.62	0.18	----

AQ72-P

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

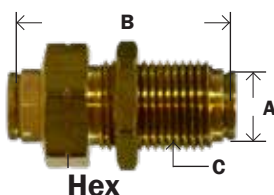
UNION "Y"



AQ89P

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	LIST PRICE
20551	5/32" x 5/32"	1.36	0.81	0.11	----
20552	1/4" x 1/8"	1.61	1.06	0.12	----
20553	1/4" x 1/4"	1.81	1.16	0.14	----

BULKHEAD UNION

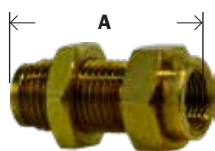


AQ82P
MQ82

PART #	TUBE O.D. A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
20124	1/8"	1.12	7/16-20	0.62	0.03	----
20125	5/32"	1.12	7/16-20	0.62	0.03	----
20126	3/16"	1.27	1/2-20	0.68	0.04	----
20127	1/4"	1.69	1/2-20	0.68	0.06	----
20128	3/8"	1.69	3/4-16	0.81	0.13	----
20129	1/2"	1.85	15/16-20	1.12	0.16	----

AQ82-P 6590 62PLBH KQE 12-029 50-582 282-OF 1174

FEMALE BULKHEAD UNION



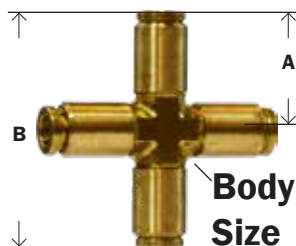
AQ86P
MQ86

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20170	1/4" x 1/8"	1.19	0.68	0.08	----
20171	1/4" x 1/4"	1.36	0.75	0.10	----
20172	3/8" x 1/4"	1.71	0.75	0.14	----

AQ86-P 1166BH

Dimension data can change without notice. Please call us when dimensions are critical.

CROSS



SIZE	SIZE	A	B	BODY SIZE	LIST PRICE
20142	1/4"	1.03	2.06	0.37	----
20143	3/8"	1.06	2.12	0.50	----

REDUCER - NICKEL PLATED - TUBE OD X STUD



MQ97

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	LIST PRICE
20510	1/8" x 1/4"	1.38	0.39	0.02	----
20511	5/32" x 1/4"	1.33	0.35	0.02	----
20512	1/4" x 3/8"	1.50	0.51	0.04	----

67PPL 286PP

PLASTIC PLUG



AQ59P
MQ59

• Cored

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
20009	5/32"	1.16	0.01	----
20010	1/4"	1.40	0.01	----
20011	3/8"	1.40	0.02	----
20013	1/2"	1.50	0.02	----

284PP AQ59 209-OF 1129 6900 639PL 12-004 50-526

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

**NICKEL PLATED PUSH-IN FITTINGS
WITH GLOBAL THREAD**

• NPTF • BSPP • BSPT • ISO 7 • ISO 228 • G THREAD • J THREAD



- Saves time and money
- No stripped threads
- No stripped parts
- Reduce inventory
- Completely reusable
- Quick installation
- No pitch identification

Component Parts and Materials

Body	Brass - Nickel Plated
Thrust Ring	Acetalic Resin/ Glass filled Nylon
Sleeve	Brass - Nickel Plated
Gripper Collet	Stainless Steel
Safety Ring	PA66
Lip Seal (1/8 O-Ring Seal)	NBR 70
Thread Seal	NBR 70

Max Operating Pressure: Vacuum to 290PSI.
 Min Temperature: -4°F
 Max Temperature: 176°F
 Tubing: Nylon, Polyethylene, Polyurethane.
 - For best results use 95 Durometer
 Media: Compressed air, water, vacuum

• Tolerance

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

GLOBAL THREAD**WORKS WITH INCH OR METRIC THREADS**

“Global Thread” fittings can be assembled with female threads produced to the following standards:

Tapered NPTF
 Parallel (BSPP, BSP, ISO 7)
 Tapered (BSPT, PT, ISO 7, ISO 228)

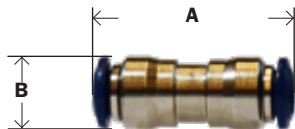
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

NICKEL PLATED PUSH-IN FITTINGS

UNION CONNECTOR

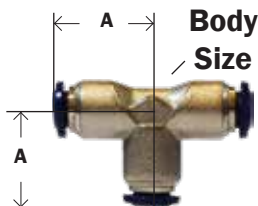


PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20017N	1/8"	1.06	0.34	0.03	----
20018N*	5/32"	1.20	0.41	0.03	----
20016N	5/32" x 1/4"	1.20	0.40	0.04	----
20019N*	1/4"	1.38	0.49	0.05	----
20015N*	5/16"	1.46	0.57	0.06	----
20020N*	3/8"	1.69	0.69	0.06	----
20022N	3/8" x 1/4"	1.69	0.68	0.06	----
20021N*	1/2"	1.93	0.81	0.18	----
20024N	1/2" x 3/8"	1.84	0.80	0.17	----

* Available in SS

62PL 88040

UNION TEE

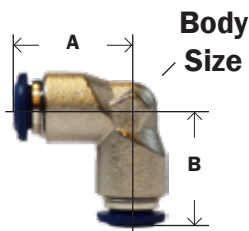


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20025N	1/8"	0.67	0.35	0.04	----
20026N*	5/32"	0.67	0.35	0.04	----
20028N*	1/4"	0.83	0.43	0.09	----
20031N*	5/16"	0.87	0.51	0.10	----
20029N*	3/8"	1.04	0.63	0.13	----
20030N*	1/2"	1.20	0.74	0.24	----

* Available in SS

164PL 88230

UNION ELBOW

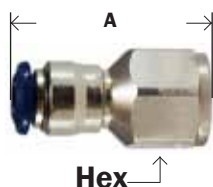


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20150N	1/8"	0.67	0.35	0.02	----
20151N*	5/32"	0.67	0.35	0.04	----
20152N*	1/4"	0.83	0.43	0.06	----
20155N*	5/16"	0.87	0.51	0.08	----
20153N*	3/8"	1.04	0.63	0.09	----
20154N*	1/2"	1.20	0.75	0.18	----

* Available in SS

165PL 88130

FEMALE CONNECTOR



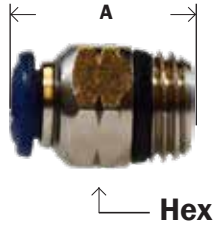
PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20032N	1/8" x 1/8"	0.93	0.51	0.04	----
20038N	1/8" x 1/4"	1.14	0.63	0.04	----
20034N	1/4" x 1/8"	1.06	0.51	0.06	----
20035N	1/4" x 1/4"	1.26	0.63	0.09	----
20036N	3/8" x 1/4"	1.38	0.71	0.09	----
20037N	3/8" x 3/8"	1.38	0.79	0.12	----

66PL 88030

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

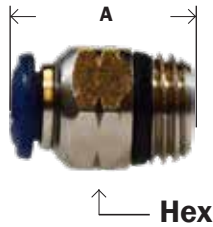


• Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20047N	1/8" x 10-32"	0.75	0.31	0.02	----
20048N	1/8" x 1/8"	0.77	0.43	0.02	----
20023N	1/8" x 1/4"	0.97	0.55	0.04	----
20049N*	5/32" x 10-32"	0.83	0.39	0.02	----
20050N*	5/32" x 1/8"	0.83	0.43	0.03	----
20046N*	5/32" x 1/4"	0.98	0.55	0.05	----
20053N*	1/4" x 10-32"	0.97	0.51	0.03	----
20054N*	1/4" x 1/8"	0.98	0.51	0.06	----
20055N*	1/4" x 1/4"	0.98	0.55	0.10	----
20056N	1/4" x 3/8"	0.98	0.71	0.08	----
20530N*	5/16" x 1/8"	0.98	0.55	0.05	----
20531N*	5/16" x 1/4"	1.08	0.55	0.10	----
20532N	5/16" x 3/8"	1.08	0.71	0.08	----
20057N	3/8" x 1/8"	1.38	0.67	0.06	----
20058N*	3/8" x 1/4"	1.32	0.67	0.05	----
20059N*	3/8" x 3/8"	1.32	0.71	0.08	----
20062N	3/8" x 1/2"	1.32	0.87	0.08	----
20841N	1/2" x 1/8"	1.03	0.79	0.12	----
20060N	1/2" x 1/4"	1.54	0.79	0.11	----
20061N*	1/2" x 3/8"	1.42	0.79	0.12	----
20063N*	1/2" x 1/2"	1.58	0.87	0.14	----

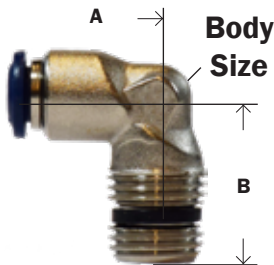
MALE CONNECTOR WITH INTERNAL HEX



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20842N	1/8" x 10-32" UNF	0.71	0.10	0.02	----
20847N	5/32" x 10-32" UNF	0.79	0.10	0.02	----
20846N	5/32" x 1/8"	0.71	0.12	0.03	----
20845N	1/4" x 10-32" UNF	0.93	0.10	0.03	----
20843N	1/4" x 1/8"	0.93	0.16	0.06	----
20844N	1/4" x 1/4"	0.85	0.16	0.10	----

68PL 87000

FIXED MALE ELBOW



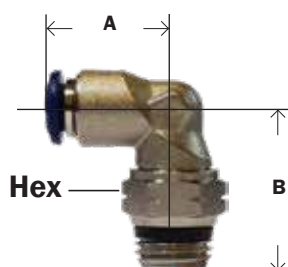
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20068N	1/4" x 1/8"	0.83	0.73	0.43	0.06	----
20069N	1/4" x 1/4"	0.83	0.91	0.43	0.08	----
20072N	3/8" x 1/4"	1.04	1.04	0.63	0.09	----
20073N	3/8" x 3/8"	1.04	1.00	0.63	0.12	----

W169PLNS 8100

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL MALE ELBOW



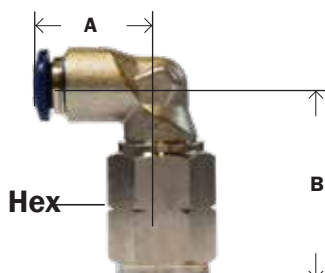
• Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20079N	1/8" x 1/8"	0.67	0.78	0.51	0.07	----
20535N	1/8" x 1/4"	0.67	0.95	0.59	0.06	----
20076N*	5/32" x 10-32"	0.67	0.95	0.59	0.04	----
20080N*	5/32" x 1/8"	0.67	0.79	0.51	0.05	----
20848N*	5/32" x 1/4"	0.67	1.00	0.59	0.05	----
20081N*	1/4" x 1/8"	0.83	0.87	0.51	0.08	----
20082N*	1/4" x 1/4"	0.83	0.98	0.59	0.10	----
20086N	1/4" x 3/8"	0.83	1.10	0.67	0.09	----
20537N*	5/16" x 1/8"	0.91	0.98	0.51	0.06	----
20538N*	5/16" x 1/4"	0.89	1.02	0.59	0.07	----
20539N	5/16" x 3/8"	0.87	1.10	0.67	0.08	----
20087N	3/8" x 1/8"	1.04	1.02	0.51	0.09	----
20083N*	3/8" x 1/4"	1.04	1.10	0.59	0.10	----
20084N*	3/8" x 3/8"	1.04	1.18	0.67	0.20	----
20088N*	3/8" x 1/2"	1.04	1.30	0.83	0.19	----
20184N	1/2" x 1/4"	1.24	1.30	0.59	0.17	----
20085N*	1/2" x 3/8"	1.20	1.24	0.59	0.18	----
20092N*	1/2" x 1/2"	1.20	1.42	0.83	0.24	----

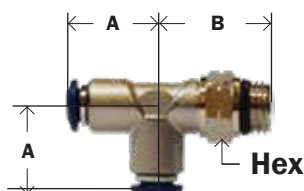
W169PL 87110

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	LIST PRICE
20094N	5/32" x 1/8"	0.669	0.994	0.354	----
20089N	1/4" x 1/8"	0.826	1.023	0.433	----
20090N	1/4" x 1/4"	0.826	1.200	0.433	----
20762N	3/8" x 1/8"	0.885	1.082	0.511	----
20091N	3/8" x 1/4"	0.885	1.240	0.511	----

SWIVEL MALE RUN TEE



• Can be purchased with NPTF threads upon request

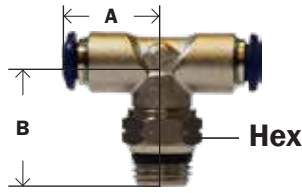
PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20095N	1/8" x 1/8"	0.67	0.81	0.51	0.05	----
20851N	1/8" x 1/4"	0.67	0.95	0.59	0.06	----
20852N	5/32" x 1/8"	0.67	0.79	0.51	0.07	----
20853N	5/32" x 1/4"	0.67	0.95	0.59	0.07	----
20162N	1/4" x 1/8"	0.83	0.87	0.51	0.09	----
20163N	1/4" x 1/4"	0.83	0.98	0.59	0.11	----
20164N	1/4" x 3/8"	0.83	1.10	0.59	0.11	----
20159N	3/8" x 1/8"	1.04	1.07	0.59	0.12	----
20168N	3/8" x 1/4"	1.04	1.10	0.59	0.12	----
20165N	3/8" x 3/8"	1.04	1.18	0.67	0.12	----
20181N	3/8" x 1/2"	1.20	1.24	0.59	0.15	----
20174N	1/2" x 1/4"	1.20	1.24	0.59	0.16	----
20166N	1/2" x 3/8"	1.20	1.30	0.67	0.14	----
20167N	1/2" x 1/2"	1.20	1.42	0.83	0.17	----

W171PL 87222

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL MALE BRANCH TEE



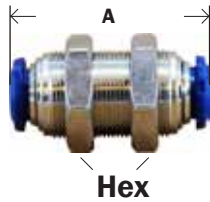
- Can be purchased with NPTF threads upon request

* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20103N	1/8" x 1/8"	0.67	0.78	0.51	0.04	----
20104N	5/32" x 10-32"	0.67	0.79	0.31	0.04	----
20109N	5/32" x 1/8"	0.70	0.79	0.51	0.06	----
20850N	5/32" x 1/4"	0.67	1.00	0.59	0.06	----
20105N	1/4" x 1/8"	0.83	0.87	0.51	0.08	----
20106N	1/4" x 1/4"	0.83	0.98	0.59	0.10	----
20156N	1/4" x 3/8"	1.043	1.10	0.59	0.18	----
20157N	3/8" x 1/8"	1.04	1.08	0.59	0.18	----
20107N	3/8" x 1/4"	1.04	1.10	0.59	0.18	----
20108N	3/8" x 3/8"	1.04	1.18	0.67	0.16	----
20158N	3/8" x 1/2"	1.04	1.30	0.82	0.18	----
20112N	1/2" x 1/4"	1.20	1.24	0.59	0.23	----
20110N	1/2" x 3/8"	1.20	1.30	0.67	0.24	----
20111N	1/2" x 1/2"	1.20	1.42	0.82	0.28	----

W172PL 87210

BULKHEAD UNION

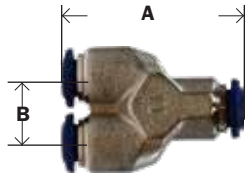


* Available in stainless steel

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20124N	1/8"	1.03	0.55	0.04	----
20125N*	5/32"	1.22	0.67	0.05	----
20127N*	1/4"	1.38	0.67	0.06	----
20123N*	5/16"	1.45	0.74	0.08	----
20128N*	3/8"	1.69	0.94	0.13	----
20129N*	1/2"	1.93	1.02	0.15	----

62PLBH 88050

UNION "Y"



PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20553N	1/4" x 1/4"	1.44	0.53	0.14	----

662PL 88310

REDUCER



PART #	TUBE O.D. 2	TUBE O.D. 1	A	LIST PRICE
20510N	1/4"	1/8"	1.142	----
20511N	1/4"	5/32"	1.181	----
20512N	3/8"	1/4"	1.496	----
20513N	1/2"	1/4"	1.693	----
20514N	1/2"	3/8"	1.693	----

67PPL 88700

Also available:

- Nylon plug
- Single banjo
- Double banjo
- Push fit cartridges and tools

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

CHROME PLATED BRASS MINI BALL VALVES

- Compact Design
- Max Working Pressure 250 psi



PUSH-IN X PUSH-IN

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
28400	1/8	30/300	.07	----
28401	1/4	30/300	.10	----
28402	3/8	20/200	.21	----



PUSH-IN X MALE PIPE

PART #	SIZE TUBE X MIP	BOX/ CASE	WGT.	LIST PRICE
28403	5/32 x 1/8	30/300	.08	----
28407	1/4 x 1/8	30/300	.08	----
28404	1/4 x 1/4	30/300	.10	----
28405	3/8 x 3/8	20/200	.17	----



FIP X FIP

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46650	1/8	30/300	.11	----
46651	1/4	30/300	.10	----
46652	3/8	20/200	.14	----
46653	1/2	15/150	.25	----



MIP X FIP

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46660	1/8	30/300	.11	----
46661	1/4	30/300	.10	----
46662	3/8	20/200	.14	----
46663	1/2	15/150	.25	----

- Optional colors of handle plate for identification

PANEL MOUNT DESIGN



FIP X FIP ANGLE

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46670	1/8	20/200	.19	----
46671	1/4	20/200	.20	----
46672	3/8	25/250	.11	----



3-WAY FIP - OPEN CENTER

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
466900	1/8	25/250	.13	----
466901	1/4	20/200	.21	----
466902	3/8	20/200	.21	----



3-WAY FIP - CLOSED CENTER

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46680	1/8	25/250	.13	----
46681	1/4	20/200	.21	----
46682	3/8	20/200	.21	----

See page 198-200 for more mini ball valves
Stainless Steel mini ball valves on page 212 and 213

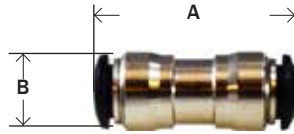
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

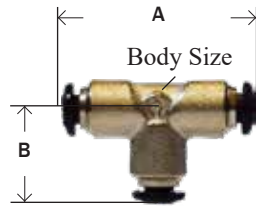
UNION



* Available in SS

PART #	TUBE O.D. (MM)	TUBE O.D. (MM)	A	B	LIST PRICE
20723N	3		1.014	0.332	----
20600N*	4		1.190	0.410	----
20724N	5		1.287	0.449	----
20725N	6	4	1.248	0.488	----
20601N*	6		1.326	0.488	----
20726N	8	6	1.365	0.566	----
20727N*	8		1.404	0.566	----
20728N	10	8	1.638	0.683	----
20603N*	10		1.638	0.683	----
20729N	12	10	1.833	0.800	----
20604N*	12		1.833	0.800	----
20730N	14		1.911	0.839	----

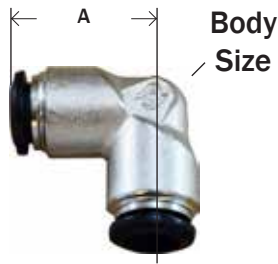
UNION TEE



* Available in SS

PART #	TUBE O.D. (MM)	A	B	BODY SIZE	LIST PRICE
20741N	3	1.326	0.663	0.351	----
20610N*	4	1.326	0.663	0.351	----
20742N	5	1.560	0.780	0.429	----
20611N*	6	1.638	0.819	0.429	----
20612N*	8	1.755	0.878	0.507	----
20613N*	10	2.067	1.034	0.624	----
20614N*	12	2.379	1.190	0.741	----
20743N	14	2.379	2.535	0.741	----

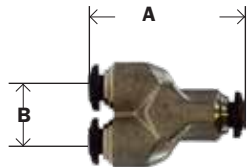
UNION ELBOW



* Available in SS

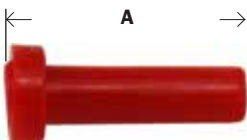
PART #	TUBE O.D. (MM)	A	BODY SIZE	LIST PRICE
20738N	3	0.663	0.51	----
20206N*	4	0.663	0.351	----
20739N	5	0.780	0.429	----
20660N*	6	0.780	0.429	----
20661N*	8	0.878	0.507	----
20807N*	10	1.034	0.624	----
20808N*	12	1.190	0.741	----
20740N	14	1.268	0.741	----

UNION Y



PART #	TUBE O.D. (MM)	B	A	LIST PRICE
20744N	3	0.390	1.131	----
20813N	4	0.429	1.248	----
20745N	5	0.527	1.365	----
20814N	6	0.527	1.424	----
20815N	8	0.605	1.599	----
20746N	10	0.728	1.890	----

PLUG



PART #	TUBE O.D. (MM)	A	LIST PRICE
20748N	4	0.917	----
20749N	5	0.956	----
20750N	6	0.956	----
20751N	8	1.014	----
20752N	10	1.112	----
20753N	12	1.190	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

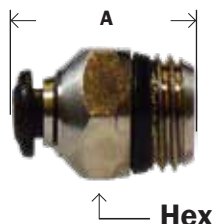


NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

NICKEL PLATED METRIC PUSH-IN FITTINGS

METRIC TUBE STRAIGHT MALE

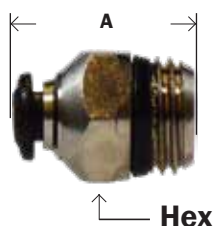


- Can be purchased with BSPP or BSPT Threads

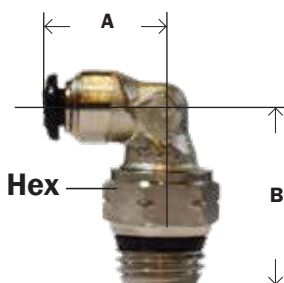
* Available in SS

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	LIST PRICE
20630N*	4	1/8"	0.702	0.429	----
20631N*	4	1/4"	0.760	0.546	----
20700N	5	1/8"	0.78	0.429	----
20701N	5	1/4"	0.78	0.546	----
20632N*	6	1/8"	0.78	0.546	----
20633N*	6	1/4"	0.819	0.546	----
20628N	6	3/8"	0.90	0.546	----
20629N	6	1/2"	0.92	0.546	----
20702N*	8	1/8"	0.955	0.546	----
20634N*	8	1/4"	0.858	0.546	----
20635N	8	3/8"	0.897	0.663	----
20703N	8	1/2"	0.897	0.663	----
20636N*	10	1/4"	1.092	0.663	----
20637N*	10	3/8"	1.092	0.663	----
20704N*	10	1/2"	1.014	0.663	----
20801N	12	1/4"	1.267	0.78	----
20638N*	12	3/8"	1.267	0.78	----
20705N*	12	1/2"	1.209	0.78	----
20706N	14	3/8"	1.287	0.858	----
20707N	14	1/2"	1.248	0.858	----

METRIC TUBE INTERNAL HEX



METRIC TUBE SWIVEL MALE ELBOW



- Can be purchased with BSPP or BSPT Threads

* Available in SS w BSPP or BSPT Threads

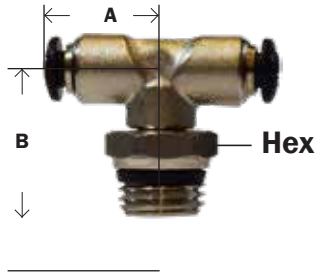
EX	PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	LIST PRICE
	20619N	3	M5	0.31	0.31	----
	20620N	4	1/8"	0.71	0.43	----
	20621N*	4	M5	0.39	0.38	----
	20622N	4	M7 x 1"	0.83	0.38	----
	20623N	6	1/4"	0.83	0.55	----
	20624N	6	1/8"	0.85	0.47	----
	20625N*	6	M5	0.47	0.47	----
	20626N	8	1/4"	0.88	0.55	----
	20627N	8	1/8"	0.98	0.55	----

E ELBOW							
	PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
	20708N*	4	1/8"	0.663	0.780	0.507	----
	20709N*	4	1/4"	0.663	0.936	0.585	----
	20710N	5	1/8"	0.780	0.858	0.507	----
	20642N*	6	1/8"	0.819	0.858	0.507	----
	20803N*	6	1/4"	0.819	0.975	0.585	----
	20711N*	8	1/8"	0.878	0.917	0.507	----
	20805N*	8	1/4"	0.878	1.014	0.585	----
	20655N	8	3/8"	0.878	1.092	0.663	----
	20712N	8	1/2"	0.878	1.404	0.819	----
	20656N*	10	1/4"	1.034	1.092	0.585	----
	20657N*	10	3/8"	1.034	1.170	0.663	----
	20713N*	10	1/2"	1.034	1.287	0.819	----
	20658N*	12	3/8"	1.190	1.287	0.663	----
	20659N*	12	1/2"	1.190	1.404	0.819	----
	20714N	14	3/8"	1.268	1.404	0.663	----
	20715N	14	1/2"	1.268	1.443	0.819	----

NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

METRIC TUBE SWIVEL MALE BRANCH TEE

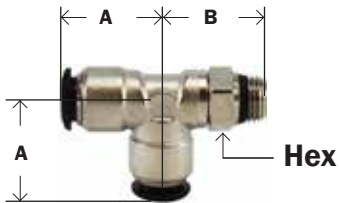


- Can be purchased with BSPP or BSPT threads

* Available in SS w/BSPP or BSPT threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20680N*	4	1/8"	0.663	0.780	0.507	----
20716N*	4	1/4"	0.663	0.936	0.585	----
20717N	5	1/8"	0.78	0.858	0.507	----
20682N*	6	1/8"	0.819	0.858	0.507	----
20683N*	6	1/4"	0.819	0.975	0.585	----
20809N*	8	1/8"	0.877	0.917	0.507	----
20684N*	8	1/4"	0.877	1.014	0.585	----
20690N	8	3/8"	0.886	1.024	0.585	----
20691N	8	1/2"	0.886	1.122	0.585	----
20686N*	10	1/4"	1.033	1.092	0.585	----
20687N*	10	3/8"	1.033	1.170	0.663	----
20810N*	10	1/2"	1.033	1.287	0.819	----
20688N*	12	3/8"	1.189	1.287	0.663	----
20689N*	12	1/2"	1.189	1.404	0.819	----
20718N	14	3/8"	1.267	1.404	0.663	----
20719N	14	1/2"	1.267	1.443	0.819	----

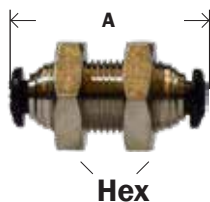
METRIC TUBE SWIVEL MALE RUN TEE



- Can be purchased with BSPP threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20670N	4	1/8"	0.663	0.780	0.507	----
20720N	4	1/4"	0.663	0.936	0.585	----
20721N	5	1/8"	0.780	0.858	0.507	----
20672N	6	1/8"	0.819	0.858	0.507	----
20673N	6	1/4"	0.819	0.975	0.585	----
20811N	8	1/8"	0.819	0.917	0.507	----
20674N	8	1/4"	0.878	1.014	0.585	----
20668N	8	3/8"	0.885	1.063	0.585	----
20669N	8	1/2"	0.885	1.063	0.585	----
20676N	10	1/4"	0.878	1.092	0.585	----
20677N	10	3/8"	1.034	1.170	0.663	----
20722N	10	1/2"	1.034	1.287	0.819	----
20678N	12	3/8"	1.190	1.287	0.663	----
20679N	12	1/2"	1.190	1.404	0.819	----

BULKHEAD



PART #	TUBE O.D. (MM)	M	A	HEX	LIST PRICE
20731N	3	M10x1	1.014	0.546	----
20732N*	4	M12x1	1.229	0.663	----
20733N	5	M14x1	1.287	0.663	----
20734N*	6	M14x1	1.365	0.663	----
20735N*	8	M16x1	1.443	0.741	----
20736N*	10	M20x1	1.677	0.936	----
20737N*	12	M22x1	1.872	1.014	----

* Available in SS

COMPOSITE BODY PUSH-IN FITTINGS



• For Food Grade,
see page 340-343

Specifications

Fluid admitted	Air
Working pressure range	0-150 PSI (10BAR)
Min. Burst pressure	340PSI (23BAR)
Working Temperature range	0°F ~160°F

Materials of Construction:

1	Body	Composite Polyacetal (hemopolymer, copolymer)
2	Body	Brass
3	Tube Release	Acetal Resin
4	Retainer	Brass
5	Gripper Ring	Stainless Steel
6	Spacer	Brass
7	O-Ring	NBR 70
8	Threads	Brass w/ white sealant

The latest generation of composite material is used in the body construction in addition to brass on threaded components and stainless steel on the tube gripper.

• Tolerance

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

May you live all the
days of your life.

- Jonathan Swift

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20017C	1/8"	0.01	----
20018C	5/32"	0.01	----
20001C	3/16"	0.01	----
20019C	1/4"	0.01	----
20015C	5/16"	0.01	----
20020C	3/8"	0.02	----
20021C	1/2"	0.03	----
20016C	1/4" x 5/32"	0.01	----
20515C	5/16" x 1/4"	0.01	----
20022C	3/8" x 1/4"	0.01	----
20516C	3/8" x 5/16"	0.02	----
20024C	1/2" x 3/8"	0.03	----

PQ62P

UNION TEE



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20025C	1/8"	0.01	----
20026C	5/32"	0.01	----
20027C	3/16"	0.02	----
20028C	1/4"	0.02	----
20031C	5/16"	0.02	----
20029C	3/8"	0.02	----
20030C	1/2"	0.08	----

PQ64P

90° UNION ELBOW



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20150C	1/8"	0.01	----
20151C	5/32"	0.01	----
20149C	3/16"	0.01	----
20152C	1/4"	0.02	----
20155C	5/16"	0.02	----
20153C	3/8"	0.02	----
20154C	1/2"	0.02	----

PQ65P

UNION "Y" CONNECTOR



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20551C	5/32"	0.01	----
20553C	1/4"	0.02	----
20182C	5/16"	0.02	----
20555C	3/8"	0.02	----
20185C	1/2"	0.07	----

PQ89P

FEMALE CONNECTOR

• Brass



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
20034C	1/4" x 1/8"	0.02	----
20035C	1/4" x 1/4"	0.04	----
20036C	3/8" x 1/4"	0.04	----
20037C	3/8" x 3/8"	0.06	----

PQ66P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

- Nickel Plated



- See broader range of sizes on page 104
- N/P push-in fittings

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20050C	5/32" x 1/8"	0.02	----
20053C	1/4" x 10-32"	0.02	----
20054C	1/4" x 1/8"	0.02	----
20055C	1/4" x 1/4"	0.02	----
20056C	1/4" x 3/8"	0.04	----
20530C	5/16" x 1/8"	0.05	----
20531C	5/16" x 1/4"	0.05	----
20057C	3/8" x 1/8"	0.05	----
20058C	3/8" x 1/4"	0.06	----
20059C	3/8" x 3/8"	0.06	----
20062C	3/8" x 1/2"	0.08	----
20060C	1/2" x 1/4"	0.06	----
20061C	1/2" x 3/8"	0.08	----
20063C	1/2" x 1/2"	0.10	----

PQ68P

SWIVEL MALE ELBOW

- Swivels for installation only.
- Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20079C	1/8" x 1/8"	0.01	----
20535C*	1/8" x 1/4"	0.01	----
20517C*	3/16" x 1/4"	0.01	----
20080C*	5/32" x 1/8"	0.01	----
20077C*	5/32" x 1/4"	0.01	----
20049C*	5/32" x 10/32"	0.01	----
20078C	1/4" x 10-32	0.01	----
20081C	1/4" x 1/8"	0.02	----
20082C	1/4" x 1/4"	0.04	----
20086C	1/4" x 3/8"	0.06	----
20518C*	1/4" x 1/2"	0.07	----
20537C	5/16" x 1/8"	0.04	----
20538C	5/16" x 1/4"	0.04	----
20539C*	5/16" x 3/8"	0.06	----
20087C	3/8" x 1/8"	0.04	----
20083C	3/8" x 1/4"	0.08	----
20084C	3/8" x 3/8"	0.10	----
20088C	3/8" x 1/2"	0.12	----
20184C	1/2" x 1/4"	0.14	----
20085C	1/2" x 3/8"	0.16	----
20092C*	1/2" x 1/2"	0.18	----

PQ69PS

LONG PATTERN MALE ELBOWS



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	LIST PRICE
20572C	1/4 X 1/8	0.03	----
20573C	1/4 X 1/4	0.05	----
20574C	1/4 X 3/8	0.06	----
20579C	3/8 X 1/4	0.09	----
20580C	3/8 X 3/8	0.12	----
20581C	3/8 X 1/2	0.14	----
20582C	1/2 X 1/4	0.16	----
20583C	1/2 X 3/8	0.18	----
20584C	1/2 X 1/2	0.20	----

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

FEMALE SWIVEL ELBOWS



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
20089C	1/4 X 1/8	0.05	----
20090C	1/4 X 1/4	0.06	----
20591C	1/4 X 3/8	0.07	----
20091C	3/8 X 1/4	0.10	----
20595C	3/8 X 3/8	0.14	----
20596C	3/8 X 1/2	0.15	----
20597C	1/2 X 3/8	0.20	----
20598C	1/2 X 1/2	0.23	----

45° SWIVELS



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20139C	1/4 X 1/8	0.04	----
20140C	1/4 X 1/4	0.05	----

SWIVEL MALE RUN TEE

• Swivels for installation only.



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20160C*	1/8" x 1/8"	0.03	----
20833C*	1/8" x 1/4"	0.03	----
20835C*	5/32" x 10-32	0.03	----
20162C	1/4" x 1/8"	0.04	----
20163C	1/4" x 1/4"	0.04	----
20834C*	1/4" x 10-32	0.04	----
20099C	3/8" x 1/8"	0.06	----
20100C	3/8" x 1/4"	0.08	----
20165C	3/8" x 3/8"	0.10	----
20181C	3/8 x 1/2	0.12	----
20174C	1/2 x 1/4	0.12	----
20166C	1/2 x 3/8	0.14	----
20167C	1/2 x 1/2	0.16	----

PQ71PS

SWIVEL MALE BRANCH TEE

• Swivels for installation only.
• Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20103C*	1/8" x 1/8"	0.02	----
20519C*	1/8" x 1/4"	0.03	----
20109C*	5/32" x 1/8"	0.02	----
20135C*	5/32" x 1/4"	0.03	----
20104C*	5/32" x 10/32"	0.03	----
20830C*	3/16" x 1/8"	0.03	----
20105C	1/4" x 1/8"	0.04	----
20106C	1/4" x 1/4"	0.06	----
20831C*	1/4" x 10/32"	0.06	----
20121C	1/4" x 3/8"	0.08	----
20136C*	5/16" x 1/8"	0.04	----
20137C*	5/16" x 1/4"	0.05	----
20832C*	5/16" x 3/8"	0.06	----
20107C	3/8" x 1/4"	0.10	----
20108C	3/8" x 3/8"	0.12	----
20158C*	3/8 X 1/2	0.14	----
20138C*	1/2 X 1/4	0.14	----
20110C	1/2 X 3/8	0.16	----
20111C	1/2 X 1/2	0.21	----

PQ72PS

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

BULKHEAD UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20127C	1/4"	0.04	----
20128C	3/8"	0.06	----
20129C	1/2"	0.10	----

PQ82P

BULKHEAD FEMALES



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	LIST PRICE
20170C	1/4 X 1/8	0.04	----
20171C	1/4 X 1/4	0.04	----
20172C	3/8 X 1/4	0.06	----
20173C	3/8 X 3/8	0.07	----
20175C	1/2 X 1/4	0.07	----
20176C	1/2 X 3/8	0.09	----
20179C	1/2 X 1/2	0.10	----

SWIVEL "Y" CONNECTOR

▪ Swivels for installation only. ▪ Not a live swivel



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20187C	1/4 X 1/8	0.02	----
20557C	1/4" x 1/4"	0.02	----
20188C	3/8 X 1/4	0.04	----
20189C	3/8 X 3/8	0.04	----
20193C	3/8 X 1/2	0.07	----
20194C	1/2 X 3/8	0.06	----
20195C	1/2 X 1/2	0.09	----

PQ88PS

IN-LINE NEEDLE VALVE



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20487C	1/4"	0.04	----
20488C	5/16"	0.05	----
20489C	3/8"	0.06	----

PQ310C

RIGHT ANGLE FLOW CONTROL METER IN ▪ Free flow out



▪ Marked w/V

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20727C	1/4 X 1/8	0.04	----
20728C	1/4" x 1/4"	0.04	----
20780C	3/8 X 1/4	0.06	----
20781C	3/8 X 3/8	0.06	----
20782C	1/2 X 1/2	0.10	----

JPQ

RIGHT ANGLE FLOW CONTROL METER OUT ▪ Free flow in



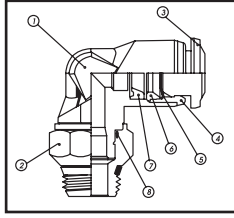
▪ Marked w/C

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20785C	1/4 x 1/8	0.04	----
20786C	1/4 x 1/4	0.04	----
20787C	3/8 x 1/4	0.06	----
20788C	3/8 x 3/8	0.06	----
20789C	1/2 x 1/2	0.10	----

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

Technical Characteristics



PART 1	BODY	COMPOSITE
PART 2	BODY	NICKEL PLATED BRASS
PART 3	TUBE RELEASE	ACETAL RESIN
PART 4	RETAINER	NICKEL PLATED BRASS
PART 5	GRIPPER RING	STAINLESS STEEL
PART 6	SPACER	COMPOSITE
PART 7	THREAD PACKING	NBR 70
PART 8	O-RING	NBR 70
PART 9	THREAD SEAL	NBR70

Operating Range

Pressure: 0 to 220 PSI (15 bar)

Vacuum: 0 to 29hg (-.99 bar)

Temperature

-5° F to + 175° F (-20° C to + 80° C)

Media

Compressed air.

Non-toxic fluids (water)

Materials

The latest generation of composite material is used in the body construction in addition to nickel-plated brass on threaded components and stainless steel on the tube gripper.

UNION



PART #	TUBE O.D. (MM)	LIST PRICE
20600	4	----
20601	6	----
20602	8	----
20603	10	----
20604	12	----

UNION TEE



PART #	TUBE O.D. (MM)	LIST PRICE
20610	4	----
20862	5	----
20611	6	----
20612	8	----
20613	10	----
20614	12	----
20861	14	----

3104

UNION ELBOW



PART #	TUBE O.D. (MM)	LIST PRICE
20806	4	----
20660	6	----
20661	8	----
20807	10	----
20808	12	----
20740	14	----

3102

MALE ADAPTER



PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20630	4	1/8"	----
20631	4	1/4"	----
20632	6	1/8"	----
20633	6	1/4"	----
20634	8	1/4"	----
20635	8	3/8"	----
20636	10	1/4"	----
20637	10	3/8"	----
20801	12	1/4"	----
20638	12	3/8"	----

3175

NOTE: See page 102 for a complete line of male adapters with global thread.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL ELBOW



PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20690*	4	M5	----
20856*	4	1/8"	----
20855*	4	1/4"	----
20692*	5	M5	----
20857*	5	1/8"	----
20859*	6	M5	----
20642	6	1/8"	----
20803	6	1/4"	----
20698*	6	3/8"	----
20699*	6	1/2"	----
20711*	8	1/8"	----
20805	8	1/4"	----
20655	8	3/8"	----
20712*	8	1/2"	----
20656	10	1/4"	----
20657	10	3/8"	----
20713*	10	1/2"	----
20790	12	1/4"	----
20658	12	3/8"	----
20659	12	1/2"	----
20714*	14	3/8"	----
20854*	14	1/2"	----

* Global Thread

▪ BSPP Available

SWIVEL BRANCH TEE



PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20680*	4	1/8"	----
20860*	4	1/4"	----
20717*	5	1/8"	----
20682	6	1/8"	----
20683	6	1/4"	----
20809	8	1/8"	----
20684	8	1/4"	----
20685	8	3/8"	----
20686	10	1/4"	----
20687	10	3/8"	----
20810	10	1/2"	----
20688	12	3/8"	----
20689	12	1/2"	----
20718*	14	3/8"	----
20719*	14	1/2"	----

* Global Thread

▪ BSPP Available

SWIVEL RUN TEE



PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20670	4	1/8"	----
20720*	4	1/4"	----
20721*	5	1/8"	----
20672	6	1/8"	----
20673	6	1/4"	----
20811	8	1/8"	----
20674	8	1/4"	----
20675	8	3/8"	----
20676	10	1/4"	----
20677	10	3/8"	----
20678	12	3/8"	----
20679	12	1/2"	----

* Global Thread

▪ BSPP Available

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION WYE



PART #	TUBE OD (MM)	LIST PRICE
20813	4	----
20814	6	----
20815	8	----
20746	10	----
20802	12	----

SWIVEL MALE WYE



PART #	TUBE OD (MM)	GLOBAL THREAD	LIST PRICE
20816	4	1/8"	----
20821*	4	1/4"	----
20817*	6	1/8"	----
20818	6	1/4"	----
20819*	8	1/8"	----
20820*	8	1/4"	----
20822*	8	3/8"	----
20823*	10	1/4"	----
20824*	10	3/8"	----
20825*	10	1/2"	----
20826*	12	3/8"	----
20827*	12	1/2"	----

* Global Thread

▪ BSPP Available

Also available:

- 45° elbow swivel
- 4 position Y
- Manifolds
- Extended swivel elbows
- Bulkhead union
- Plug-in elbows and tees

A man's ancestry is a positive property to him.

- Edward Bulwer-Lytton



D.O.T. PUSH-IN TUBE FITTINGS



Meets D.O.T. FMVSS 571.106 SAE J1131 Air Brake System Require-

Benefits for Cost Savings & Engineering Project

- **Fast assembly:** No tools required. Simply push tubing in. Saves up to 75% of assembly time compared to standard air compression fittings. No loose parts to handle.
- **Fast disconnect:** Hold the collet collar with two fingers and pull out tube. No tools required.
- **Reusable:** Can be connected and disconnected several times.
- **Reliable sealing:** Using recommended tubing, full sealing is guaranteed.
- **Versatility:** Buna N O-ring standard. Viton and others available per request. Secure tube retention. Pulling on tubing only serves to tighten the connection.
- **Pre-Applied Teflon®** based pipe sealant on all male pipe threads, saving customer additional labor.
- **Full Flow Design,** provides more flow area than con-

DOT Fittings are constructed with an all brass captive eyelet which allows for maximum flow. The brass captive eyelet with extended length is floating and has a machined top end radius for easy installation of tubing. All male threads have a pre-applied Teflon® based pipe sealant to provide for easy assembly and leak proof seal.

Materials:

Brass
"O" Ring: Buna - Nitrile (90 Durometer)
EP (Ethylene Propylene)

Working Pressures & Temperature Ranges

Vacuum to 150 PSI
-40°F to 200° F (-40°C to +93°C)

Dimension data can change without notice. Please check when dimensions are critical.

D.O.T. PUSH-IN**BRASS FITTINGS****PLUG**

AQ59DOT

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
595320	5/32"	0.01	----
590400	1/4"	0.02	----
590600	3/8"	0.02	----
590800	1/2"	0.04	----

1829 DQ59DOT 639PMT

UNIONAQ62DOT
DQ62

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
620532	5/32"	0.06	----
620400	1/4"	0.06	----
620600	3/8"	0.13	----
620604	3/8" x 1/4"	0.15	----
620800	1/2"	0.19	----
621000	5/8"	0.30	----
621200	3/4"	0.44	----

AQ62DOT 62PMT 1862 DQ62DOT

UNION TEEAQ64DOT
DQ64

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
640400	1/4"	0.09	----
640600	3/8"	0.16	----
640800	1/2"	0.25	----
641000	5/8"	0.32	----
641200	3/4"	0.36	----

AQ64DOT 164 PMT 1864 DQ64DOT

UNION ELBOWAQ65DOT
DQ65

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
655320	5/32"	0.03	----
650400	1/4"	0.06	----
650600	3/8"	0.12	----
650800	1/2"	0.18	----

D.O.T. PUSH-IN

BRASS FITTINGS

FEMALE CONNECTOR



AQ66DOT
DQ66

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
660402	1/4" x 1/8"	0.06	----
660404	1/4" x 1/4"	0.10	----
660602	3/8" x 1/8"	0.11	----
660604	3/8" x 1/4"	0.11	----
660606	3/8" x 3/8"	0.17	----
660804	1/2" x 1/4"	0.14	----
660806	1/2" x 3/8"	0.16	----
660808	1/2" x 1/2"	0.25	----

AQ66DOT 66PMT 1866 DQ66DOT

MALE CONNECTOR



AQ68DOT
DQ68

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
685320	5/32" x 10/32"	0.02	----
685321	5/32" x 1/16"	0.02	----
685322	5/32" x 1/8"	0.02	----
680302	3/16" x 1/8"	0.02	----
680421	1/4" x 1/16"	0.02	----
680402	1/4" x 1/8"	0.03	----
680404	1/4" x 1/4"	0.04	----
680406	1/4" x 3/8"	0.07	----
680602	3/8" x 1/8"	0.06	----
680604	3/8" x 1/4"	0.07	----
680606	3/8" x 3/8"	0.06	----
680608	3/8" x 1/2"	0.13	----
680804	1/2" x 1/4"	0.11	----
680806	1/2" x 3/8"	0.12	----
680808	1/2" x 1/2"	0.14	----
681006	5/8" x 3/8"	0.18	----
681008	5/8" x 1/2"	0.18	----
681208	3/4" x 1/2"	0.20	----
681212	3/4" x 3/4"	0.20	----

AQ68DOT 68PM 1868 DQ68DOT 68PMT

D.O.T. PUSH-IN**BRASS FITTINGS****MALE ELBOW**

Forged

AQ69DOT
DQ69

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
695302	5/32" x 1/16"	0.03	----
695322	5/32" x 1/8"	0.03	----
690302	3/16" x 1/8"	0.03	----
690402	1/4" x 1/8"	0.08	----
690404	1/4" x 1/4"	0.06	----
690406	1/4" x 3/8"	0.11	----
690602	3/8" x 1/8"	0.08	----
690604	3/8" x 1/4"	0.09	----
690606	3/8" x 3/8"	0.11	----
690608	3/8" x 1/2"	0.20	----
690804	1/2" x 1/4"	0.22	----
690806	1/2" x 3/8"	0.22	----
690808	1/2" x 1/2"	0.24	----
691006	5/8" x 3/8"	0.30	----
691008	5/8" x 1/2"	0.32	----
691208	3/4" x 1/2"	0.32	----
691212	3/4" x 3/4"	0.34	----

AQ69DOT 169 PMTNS 1869 DQ69DOT

MALE SWIVEL ELBOW

Forged

AQ62DOTS
DQ69S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
695322S	5/32" x 1/8"	0.07	----
690402S	1/4" x 1/8"	0.06	----
690404S	1/4" x 1/4"	0.10	----
690406S	1/4" x 3/8"	0.10	----
690602S	3/8" x 1/8"	0.10	----
690604S	3/8" x 1/4"	0.11	----
690606S	3/8" x 3/8"	0.12	----
690608S	3/8" x 1/2"	0.20	----
690804S	1/2" x 1/4"	0.16	----
690806S	1/2" x 3/8"	0.18	----
690808S	1/2" x 1/2"	0.26	----
691006S	5/8" x 3/8"	0.28	----
691008S	5/8" x 1/2"	0.30	----
691208S	3/4" x 1/2"	0.50	----
691212S	3/4" x 3/4"	0.56	----

AQ69DOTS 169PMT 1869 DQ69DOTS

A mind becomes a detriment when it acquires more intelligence than its integrity can handle.

- Cullen Hightower



D.O.T. PUSH-IN

BRASS FITTINGS

FEMALE ELBOW



Forged

AQ70DOTS
DQ70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
700402	1/4" x 1/8"	0.06	----
700404	1/4" x 1/4"	0.10	----
700406	1/4" x 3/8"	0.16	----
700602	3/8" x 1/8"	0.15	----
700604	3/8" x 1/4"	0.12	----
700606	3/8" x 3/8"	0.17	----
700806	1/2" x 3/8"	0.26	----
700808	1/2" x 1/2"	0.30	----

AQ70DOTS 1870 DQ70DOTS 170PMTNS

FEMALE SWIVEL ELBOW



AQ70DOTS

PART #	TUBE O.D. X FEMALE NPTF	LIST PRICE
700404S	1/4" x 1/4"	----

MALE RUN TEE



Forged

AQ71DOT
DQ71

PART #	TUBE O.D. X MALE NPTF (1 X 3) X 2	APPROX. WT. LBS.	LIST PRICE
710402	1/4" x 1/8"	0.06	----
71040604	(1/4" x 3/8") x 1/4"	0.20	----
710404	1/4" x 1/4"	0.08	----
710604	3/8" x 1/4"	0.20	----
71060404	(3/8" x 1/4") x 1/4"	0.20	----
710606	3/8" x 3/8"	0.17	----
71060406	(3/8" x 1/4") x 3/8"	0.20	----
710608	3/8" x 1/2"	0.14	----
710806	1/2" x 3/8"	0.28	----

AQ71DOT 171PMTNS 1871 DQ71DOT

D.O.T. PUSH-IN**BRASS FITTINGS****MALE SWIVEL RUN TEE**

AQ71DOTS
DQ71S Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
710402S	1/4" x 1/8"	0.09	----
710404S	1/4" x 1/4"	0.11	----
710604S	3/8" x 1/4"	0.15	----
710606S	3/8" x 3/8"	0.14	----
710804S	1/2" x 1/4"	0.24	----
710806S	1/2" x 3/8"	0.24	----
710808S	1/2" x 1/2"	0.30	----

AQ71DOTS 171PMT 1871 DQ71DOTS

MALE 45° ELBOW

AQ54DOT
DQ54 Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
540402	1/4" x 1/8"	0.06	----
540404	1/4" x 1/4"	0.06	----
540602	3/8" x 1/8"	0.08	----
540604	3/8" x 1/4"	0.09	----
540606	3/8" x 3/8"	0.11	----
540608	3/8" x 1/2"	0.15	----
540804	1/2" x 1/4"	0.13	----
540806	1/2" x 3/8"	0.16	----
540808	1/2" x 1/2"	0.18	----
541006	5/8" x 3/8"	0.22	----
541008	5/8" x 1/2"	0.21	----
541208	3/4" x 1/2"	0.28	----
541212	3/4" x 3/4"	0.32	----

AQ54DOT 179MTNS 1880 DQ54DOT

MALE 45° SWIVEL ELBOW

AQ54DOTS
DQ54S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
540402S	1/4" x 1/8"	0.06	----
540404S	1/4" x 1/4"	0.09	----
540602S	3/8" x 1/8"	0.10	----
540604S	3/8" x 1/4"	0.11	----
540606S	3/8" x 3/8"	0.13	----
540804S	1/2" x 1/4"	0.14	----
540806S	1/2" x 3/8"	0.16	----
540808S	1/2" x 1/2"	0.18	----
541008S	5/8" x 1/2"	0.24	----

AQ54DOTS 179PMT 1880 DQ54DOTS

MALE BRANCH TEE

AQ72DOT
DQ72 Forged

PART #	TUBE O.D. X MALE NPTF (1 X 2) X 3	APPROX. WT. LBS.	LIST PRICE
720302	3/16" x 1/8"	0.07	----
720402	1/4" x 1/8"	0.10	----
720404	1/4" x 1/4"	0.10	----
720604	3/8" x 1/4"	0.14	----
72060404	(3/8" x 1/4") x 1/4"	0.20	----
720606	3/8" x 3/8"	0.15	----
720804	1/2" x 1/4"	0.20	----
720806	1/2" x 3/8"	0.24	----
720808	1/2" x 1/2"	0.32	----
72100808	(5/8" x 1/2") x 1/2"	0.20	----

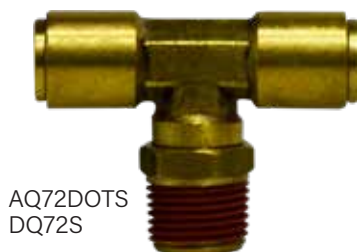
AQ72DOT 172PMTNS 1872 DQ72DOT

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN

BRASS FITTINGS

MALE SWIVEL BRANCH TEE



PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
720402S	1/4" x 1/8"	0.12	----
720404S	1/4" x 1/4"	0.14	----
720602S	3/8" x 1/8"	0.19	----
720604S	3/8" x 1/4"	0.15	----
720606S	3/8" x 3/8"	0.17	----
720804S	1/2" x 1/4"	0.30	----
720806S	1/2" x 3/8"	0.34	----
720808S	1/2" x 1/2"	0.22	----

AQ72DOTS 172PMT 1872 DQ72DOTS

FEMALE BRANCH TEE



(RUN) BRANCH

PART #	(1 & 2) X 3	LIST PRICE
770402	1/4" x 1/8"	----
770404	1/4" x 1/4"	----
770604	3/8" x 1/4"	----

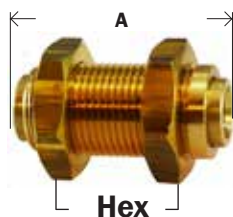
GLADHAND BULKHEAD CONNECTOR



TUBE OD X MALE NPTF

PART #	SIZE	LIST PRICE
830808	1/2" x 1/2"	----

BULKHEAD UNION



AQ82DOT
DQ82

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
820400	1/4"	0.16	----
820600	3/8"	0.21	----
820800	1/2"	0.14	----
821000	5/8"	0.30	----

AQ82DOT 62PMTBH 1874 DQ82DOT

FEMALE BULKHEAD UNION



AQ86DOT
DQ86

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
860402	1/4" x 1/8"	0.08	----
860404	1/4" x 1/4"	0.10	----
860604	3/8" x 1/4"	0.14	----
860606	3/8" x 3/8"	0.31	----
860808	1/2" x 1/2"	0.32	----

AQ86DOT 1873 DQ86DOT 66PMTBH

▪ Jam nuts not available separately

COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

COMPOSITE BODY DOT AIRBRAKE FITTINGS

WARNING

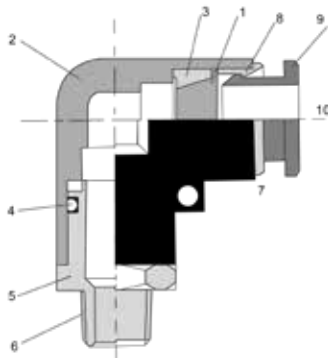
- Composite DOT push-to-connect fittings are designed only for use in applications where air is utilized as an operating fluid.
 - Fittings must be used in accordance with manufacturer and industry specifications.
 - They are not intended for use in environments exceeding 145psi or 140 degrees F.
 - The Department of Transportation FMVSS 49CFR571-106 prohibits use of this type of fitting for connections between towed and towing vehicles or between a driveshaft and chassis.
 - Using Composite DOT fittings in a manner inconsistent with manufacturer specifications may result in serious injury or property damage.
 - Under no circumstances shall the supplier be liable to buyer for any consequential or incidental damages of any nature whatsoever arising from nonconformity of goods, defective goods, or delay in shipment or any other breach by seller.
- Please feel free to email warning@compdotfitting.com with any questions or concerns.



- One touch connection reduces installation time and cost.
- Rugged ultraviolet and vibration resistant composite body.
- Various shapes and configurations to meet vehicle applications and make installations easier.

SPECIFICATIONS FOR FMVSS (D.O.T.) AND SAE COMPLIANT FITTINGS

Operating Fluid		Air					
Max. Operating Pressure		145psi (1.0MPa)					
Proof Pressure	Size	5/32"	1/4"	3/8"	1/2"	5/8"	3/4"
	At 75°F (24°C)	1200psi	1200psi	1400psi	950psi	900psi	800psi
	At 200 °F (93°C)	450psi (3.1MPa)					
Recommended Fluid and Ambient Temperature*		-40°F to 140°F (-40°C to 60°C)					
Leak Rate at -40°F (-40°C)		7 Ncm ³ /min. or less					
Thread	Thread Portion	ANSI/ASME B1.20.1, 1983 R1992					
	Nut	JIS B 0208 (Unified fine thread) ISO 263					
Thread Sealant		Fluorine/ Acrylic					
Applicable Standards		D.O.T. FMVSS 49 CFR 571.106, SAE J2494-3					
Applicable Tubing		Tubing conforming to both SAE J844 and D.O.T. FMVSS 49 CFR 571.106. Material: Nylon12					
Tube O.D.		5/32", 1/4", 3/8", 1/2", 5/8", 3/4"					



1. Chuck	Stainless steel or Brass
2. Body	Polybutylene Terephthalate (PBT), Brass
3/4. Tube seal, O-Ring	Buna-N, Nitrile Rubber
5. Stud	Brass
6. Sealant	Fluorine/ Acrylic
7. Guide	Stainless Steel or Polyacetal (Acetal)
8. Stabilization Ring	Stainless Steel
9. Release Button	Polyacetal, POM (Acetal)
10. Tube support	Stainless Steel/ Brass

COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

STRAIGHT UNION



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
620532C	5/32	0.01	----
620400C	1/4	0.01	----
620600C	3/8	0.03	----
620800C	1/2	0.05	----
621000C	5/8	0.08	----

UNION TEE



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
645320C	5/32	0.02	----
640400C	1/4	0.02	----
640600C	3/8	0.05	----
640800C	1/2	0.07	----
641000C	5/8	0.13	----

UNION 90° ELBOW



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
655320C	5/32	0.01	----
650400C	1/4	0.02	----
650600C	3/8	0.04	----
650800C	1/2	0.05	----

FEMALE CONNECTOR



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
665302C	5/32	1/8-27	0.04	----
665304C	5/32	1/4-18	0.06	----
660402C	1/4	1/8-27	0.04	----
660404C	1/4	1/4-18	0.06	----
660406C	1/4	3/8-18	0.10	----
660602C	3/8	1/8-27	0.07	----
660604C	3/8	1/4-18	0.07	----
660606C	3/8	3/8-18	0.11	----
660608C	3/8	1/2-14	0.12	----
660802C	1/2	1/8-27	0.11	----
660804C	1/2	1/4-18	0.13	----
660806C	1/2	3/8-18	0.12	----
660808C	1/2	1/2-14	0.13	----

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BRASS

COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

STRAIGHT MALE CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
685301C	5/32	1/16-28	0.02	----
685302C	5/32	1/8-27	0.02	----
685304C	5/32	1/4-27	0.03	----
680402C	1/4	1/8-27	0.02	----
680404C	1/4	1/4-18	0.03	----
680406C	1/4	3/8-18	0.05	----
680602C	3/8	1/8-27	0.05	----
680604C	3/8	1/4-18	0.06	----
680606C	3/8	3/8-18	0.06	----
680608C	3/8	1/2-14	0.09	----
680804C	1/2	1/4-18	0.09	----
680806C	1/2	3/8-18	0.09	----
680808C	1/2	1/2-14	0.09	----
681006C	5/8	3/8-18	0.15	----
681008C	5/8	1/2-14	0.13	----
681208C	3/4	1/2-14	0.38	----

90° MALE ELBOW

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
695322SC	5/32	1/8-27	0.03	----
690402SC	1/4	1/8-27	0.03	----
690404SC	1/4	1/4-18	0.04	----
690406SC	1/4	3/8-18	0.07	----
690602SC	3/8	1/8-27	0.07	----
690604SC	3/8	1/4-18	0.06	----
690606SC	3/8	3/8-18	0.08	----
690608SC	3/8	1/2-14	0.14	----
690804SC	1/2	1/4-18	0.07	----
690806SC	1/2	3/8-18	0.09	----
690808SC	1/2	1/2-14	0.14	----
691006SC	5/8	3/8-18	0.14	----
691008SC	5/8	1/2-14	0.18	----
691208SC	3/4	1/2-14	0.26	----

90° FEMALE ELBOW

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
705302C	5/32	1/8-27	0.03	----
705304C	5/32	1/4-18	0.05	----
700402SC	1/4	1/8-27	0.03	----
700404SC	1/4	1/4-18	0.05	----
700406SC	1/4	3/8-18	0.08	----
700602C	3/8	1/8-27	0.05	----
700604SC	3/8	1/4-18	0.07	----
700606SC	3/8	3/8-18	0.09	----
700608SC	3/8	1/2-14	0.10	----
700804C	1/2	1/4-18	0.08	----
700806SC	1/2	3/8-18	0.10	----
700808SC	1/2	1/2-14	0.11	----

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

MALE RUN TEE

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
715301C	5/32	1/16	0.05	----
715302C	5/32	1/8	0.03	----
715304C	5/32	1/4	0.04	----
710402SC	1/4	1/8-27	0.04	----
710404SC	1/4	1/4-18	0.05	----
710604SC	3/8	1/4-18	0.08	----
710606SC	3/8	3/8-18	0.10	----
710608SC	3/8	1/2-14	0.15	----
710804C	1/2	1/4-8	0.09	----
710806SC	1/2	3/8-18	0.11	----
710808C	1/2	1/2-14	0.17	----

MALE BRANCH TEE

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
725301C	5/32	1/16	0.03	----
725302C	5/32	1/8	0.03	----
725304C	5/32	1/4	0.05	----
720402SC	1/4	1/8-27	0.04	----
720404SC	1/4	1/4-18	0.05	----
720406SC	1/4	3/8-18	0.08	----
720604SC	3/8	1/4-18	0.08	----
720606SC	3/8	3/8-18	0.10	----
720608C	3/8	1/2-14	0.15	----
720804C	1/2	1/4-18	0.09	----
720806SC	1/2	3/8-18	0.11	----
720808SC	1/2	1/2-14	0.17	----
721006C	5/8	3/8	0.18	----
721008C	5/8	1/2	0.21	----

FEMALE BRANCH TEE



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
770402C	1/4	1/8-27	0.06	----
770404C	1/4	1/4-18	0.08	----
770604C	3/8	1/4-18	0.08	----
770806C	1/2	3/8	0.13	----
771004C	5/8	1/4	0.21	----

45° MALE ELBOW

- Fixed



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
545302C	5/32	1/8-27	0.03	----
540402SC	1/4	1/8-27	0.03	----
540404SC	1/4	1/4-18	0.04	----
540602SC	3/8	1/8-27	0.06	----
540604SC	3/8	1/4-18	0.06	----
540606SC	3/8	3/8-18	0.08	----
540608SC	3/8	1/2-14	0.13	----
540802C	1/2	1/8-27	0.08	----
540804SC	1/2	1/4-18	0.08	----
540806SC	1/2	3/8-18	0.10	----
540808SC	1/2	1/2-14	0.15	----
541006SC	5/8	3/8-18	0.14	----
541008SC	5/8	1/2-14	0.17	----
541208SC	3/4	1/2-14	0.26	----

COMPOSITE BODY D.O.T. PUSH-IN**BRASS FITTINGS****UNION "Y"**

PART #	A&B TUBE OD (INCH)	C TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
620553C	1/4	1/4	0.03	----
620409C	1/4	3/8	0.03	----
620555C	3/8	3/8	0.05	----
620559C	3/8	1/4	0.07	----
620557C	1/2	1/2	0.08	----

MALE BRANCH "Y"

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
880402C	1/4	1/8	0.05	----
880404C	1/4	1/4	0.06	----
880406C	1/4	3/8	0.09	----
620604C	3/8	1/4-18	0.09	----
620606C	3/8	3/8-18	0.12	----
620806C	1/2	3/8-18	0.13	----
620808C	1/2	1/2-14	0.15	----

BULKHEAD UNION

PART #	TUBE OD (INCH)	THREAD (UNF)	APPROX. WT. LBS.	LIST PRICE
825320C	5/32	1/2-20	0.07	----
820400C	1/4	9/16-18	0.07	----
820600C	3/8	7/8-14	0.19	----
820800C	1/2	1-12	0.26	----
821000C	5/8	1 1/8-12	0.42	----

FEMALE BULKHEAD CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	T (UNF)	APPROX. WT. LBS.	LIST PRICE
865304C	5/32	1/4-18	1/2-20	0.08	----
860402C	1/4	1/8-27	9/16-18	0.01	----
860404C	1/4	1/4-18	9/16-18	0.08	----
860604C	3/8	1/4-18	7/8-14	0.20	----
860606C	3/8	3/8-18	7/8-14	0.20	----
860806C	1/2	3/8-18	1-12	0.26	----
860808C	1/2	1/2-14	1-12	0.27	----



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D.O.T. AIR BRAKE - NYLON TUBING



Tube O.D	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	17/32-24	11/16-20	13/16-18	1-18

•Typical Application

Air brake systems except where temperatures exceed +200°F or where battery acid can drip on tubing.

•Pressure

Maximum operating pressure of 150 PSI.

•Vibration

Fair resistance.

•Temperature Range

-40°F to +200°F (-40°C to +93°C).

•Material

Brass

•Used With

NT Nylon Tubing - SAE J844 Type A and B.

• Tolerance

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

•Advantages

Easy to assemble (no tube preparation or flaring required.) Built in tube support. Fittings utilize a ribbed sleeve for compression and positive grip. May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve. Insert should be removed for copper tubing use.

•Conformance

Meets specifications and standards of SAE and DOT FMVSS 571,106.

•Assembly Instructions

- 1- Cut tubing to desired length.
- 2-Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
- 3-Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
- 4- Tighten nut to required torque as indicated on chart.

Disassembling: Remove nut and pull tubing out of fitting body. Insert will remain in tubing.

Reassembly: Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body

Tube Size	Additional Number of Turns from Hand-Tight
1/4	3
3/8, 1/2	4
5/8, 3/4	3-1/2

D.O.T. AIR BRAKE - NYLON TUBING**BRASS FITTINGS****SLEEVE**

SAE# 100115

60NA
NT60

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38000	3/16"		----
38001	1/4"	0.01	----
38002	3/8"	0.01	----
38003	1/2"	0.01	----
38004	5/8"	0.01	----
38005	3/4"	0.01	----

60NAB 60NTA 1460

NUT

SAE# 100110

62NA
NT61

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38009	3/16"		----
38010	1/4"	0.02	----
38011	3/8"	0.03	----
38012	1/2"	0.05	----
38013	5/8"	0.06	----
38014	3/4"	0.09	----

61NAB 61NTA 1461

UNION

SAE# 100101BA

62NA
NT62

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38018	3/16"		----
38019	1/4"	0.07	----
38020	3/8"	0.11	----
38021	1/2"	0.20	----
38022	5/8"	0.25	----
38023	3/4"	0.40	----

62NAB 62NTA 1462

BULKHEAD UNION62NABH
NT62BH

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38028	1/4"	0.11	----
38029	3/8"	0.16	----
38030	1/2"	0.26	----

62NBH 1474 475

STAINLESS STEEL INSERT
• 300 SERIES STAINLESS

• For SAE# J844 TUBING

AQ71DOTS
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38035	1/4"	0.01	----
38036	3/8"	0.01	----
38037	1/2"	0.01	----
38038	5/8"	0.01	----
38039	3/4"	0.01	----

59A 63NTA

BRASS INSERTAQ71DOTS
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38040	1/4"	0.01	----
38041	3/8"	0.01	----
38042	1/2"	0.01	----
38043	5/8"	0.01	----
38048	3/4"	0.02	----

1484 463

D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

TEE

SAE# 100401BA



64NA
NT64

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38044	1/4"	0.12	----
38045	3/8"	0.19	----
38046	1/2"	0.36	----
38047	5/8"	0.48	----

64NAB 264NTA 1464

REDUCING BRANCH TEE



PART #	TUBE O.D. (1&2) X 3	APPROX. WT. LBS.	LIST PRICE
38049	3/8" x 1/4"	0.24	----
38057	1/2" x 3/8"	0.30	----

ELBOW

SAE# 100201BA

65NA
NT65



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38052	1/4"	0.09	----
38053	3/8"	0.13	----
38054	1/2"	0.15	----
38055	5/8"	0.36	----

65NAB 265NTA 1465

FEMALE ADAPTER

SAE# 100103BA

66NA
NT66



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
38060	1/4" x 1/8"	0.06	----
38061	1/4" x 1/4"	0.08	----
38062	3/8" x 1/8"	0.07	----
38063	3/8" x 1/4"	0.10	----
38064	3/8" x 3/8"	0.14	----
38065	1/2" x 3/8"	0.16	----
38066	1/2" x 1/2"	0.20	----
38067	5/8" x 3/8"	0.28	----
38068	5/8" x 1/2"	0.28	----
38059	3/4" x 1/2"	0.31	----

66NAB 66NTA 1466 66NBH

If you watch a game, it's fun. If you play it, it's recreation.
If you work at it, it's golf.

- Bob Hope

Dimension data can change without notice. Please check when dimensions are critical.

www.buyfittingsonline.com



D.O.T. AIR BRAKE - NYLON TUBING**BRASS FITTINGS****MALE ADAPTER**

SAE# 100102BA

68NA
NT68VS

• More sizes available

SWIVEL MALE ADAPTER

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38072	1/4" x 1/16"	0.05	----
38073	1/4" x 1/8"	0.05	----
38074	1/4" x 1/4"	0.06	----
38075	1/4" x 3/8"	0.08	----
38076	3/8" x 1/8"	0.07	----
38077	3/8" x 1/4"	0.08	----
38078	3/8" x 3/8"	0.10	----
38079	3/8" x 1/2"	0.14	----
38080	1/2" x 1/4"	0.13	----
38081	1/2" x 3/8"	0.14	----
38082	1/2" x 1/2"	0.18	----
38087	1/2" x 3/4"	0.23	----
38083	5/8" x 3/8"	0.17	----
38084	5/8" x 1/2"	0.21	----
38088	5/8" x 3/4"	0.25	----
38085	3/4" x 1/2"	0.28	----
38086	3/4" x 3/4"	0.30	----

68NAB 68NTA 1468

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38078S	3/8" x 3/8"	0.18	----
38081S	1/2" x 3/8"	0.22	----

MALE ELBOW

SAE# 100202BA

69NA
NT69VS

• More sizes available

SWIVEL MALE ELBOW

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38091	1/4" x 1/8"	0.06	----
38092	1/4" x 1/4"	0.08	----
38093	1/4" x 3/8"	0.13	----
38094	3/8" x 1/8"	0.09	----
38095	3/8" x 1/4"	0.11	----
38090	3/8" x 1/4" LONG	0.14	----
38101	3/8" x 3/8"	0.14	----
38102	3/8" x 1/2"	0.20	----
38103	1/2" x 1/4"	0.16	----
38104	1/2" x 3/8"	0.20	----
38109	1/2" x 3/8" LONG	0.26	----
38105	1/2" x 1/2"	0.29	----
38106	5/8" x 3/8"	0.26	----
38107	5/8" x 1/2"	0.32	----
38110	5/8" x 3/4"	0.40	----
38108	3/4" x 1/2"	0.43	----
38111	3/4" x 3/4"	0.51	----

269NTA 1469

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38101S	3/8" x 3/8"	0.28	----
38104S	1/2" x 3/8"	0.32	----

FEMALE ELBOW

SAE# 100203BA

70NA
NT70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
38113	1/4" x 1/8"	0.08	----
38114	1/4" x 1/4"	0.12	----
38115	3/8" x 1/8"	0.14	----
38116	3/8" x 1/4"	0.10	----
38117	3/8" x 3/8"	0.12	----
38118	1/2" x 3/8"	0.23	----
38119	1/2" x 1/2"	0.36	----

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D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MALE RUN TEE

SAE# 100424BA

1

71NA
NT71VS

PART #	TUBE O.D. X MALE NPTF X TUBE O.D. 1X2X3	APPROX. WT. LBS.	LIST PRICE
38125	1/4" x 1/8" x 1/4"	0.10	----
38126	1/4" x 1/4" x 1/4"	0.13	----
38124	3/8" x 1/4" x 1/4"	0.14	----
38127	3/8" x 1/4" x 3/8"	0.17	----
38128	3/8" x 3/8" x 3/8"	0.20	----
38129	1/2" x 3/8" x 1/2"	0.30	----

71NAB 271NTA 1471

MALE BRANCH TEE

SAE# 100425BA

1

72NA
NT72VS

PART #	TUBE O.D. X TUBE O.D. X MALE NPTF 1X2X3	APPROX. WT. LBS.	LIST PRICE
38136	1/4" x 1/4" x 1/8"	0.10	----
38137	1/4" x 1/4" x 1/4"	0.13	----
38138	3/8" x 3/8" x 1/8"	0.14	----
38132	3/8" x 1/4" x 1/4"	0.15	----
38139	3/8" x 3/8" x 1/4"	0.17	----
38133	1/2" x 1/2" x 1/4"	0.26	----
38140	3/8" x 3/8" x 3/8"	0.21	----
38134	1/2" x 3/8" x 3/8"	0.26	----
38141	1/2" x 1/2" x 3/8"	0.30	----
38142	1/2" x 1/2" x 1/2"	0.37	----
38143	5/8" x 5/8" x 1/2"	0.44	----

72NAB 272NTA 1472

FEMALE BRANCH TEE

1



PART #	TUBE O.D. X TUBE O.D. X FEMALE NPTF 1X2X3	APPROX. WT. LBS.	LIST PRICE
38144	3/8" x 3/8" x 1/4"	0.21	----
38146	5/8" x 5/8" x 1/4"	0.48	----

45° ELBOW

SAE# 100302BA

6945NA
NT6945VS

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38148	1/4" x 1/8"	0.06	----
38149	1/4" x 1/4"	0.08	----
38150	3/8" x 1/8"	0.09	----
38151	3/8" x 1/4"	0.11	----
38152	3/8" x 3/8"	0.14	----
38153	3/8" x 1/2"	0.24	----
38157	1/2" x 1/4"	0.18	----
38154	1/2" x 3/8"	0.19	----
38155	1/2" x 1/2"	0.25	----
38156	5/8" x 1/2"	0.30	----
38158	3/4" x 1/2"	0.38	----

6945NAB 279NTA 1480

SWIVEL 45° ELBOW



PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38152S	3/8" x 3/8"	0.20	----
38154S	1/2" x 3/8"	0.24	----

D.O.T. AIR BRAKE - COPPER TUBING**BRASS FITTINGS****SLEEVE**

SAE# 120115BA

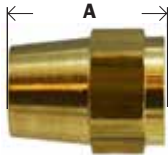
60AB
AB60

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38161	1/4"	0.25	0.01	----
38162	3/8"	0.31	0.02	----
38163	1/2"	0.38	0.02	----
38164	5/8"	0.44	0.02	----
38165	3/4"	0.50	0.04	----

60AB 1360

NUT

SAE# 120111BA

61AB
AB61

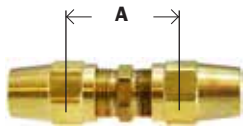
Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
38170	1/4"	0.75	0.56	0.02	----
38171	3/8"	1.13	0.62	0.04	----
38172	1/2"	1.25	0.81	0.08	----
38173	5/8"	1.38	0.94	0.12	----
38174	3/4"	1.56	1.12	0.18	----

20961 61AB 1361

UNION

SAE# 120101BA

62AB
AB62

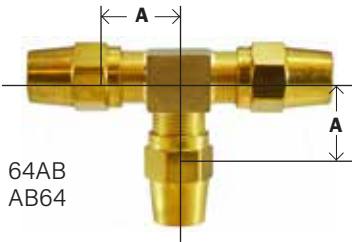
Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
38179	1/4"	0.81	0.44	0.08	----
38180	3/8"	1.10	0.56	0.14	----
38181	1/2"	1.07	0.69	0.24	----
38182	5/8"	1.41	0.81	0.34	----
38183	3/4"				----

62AB 1362

TEE

SAE# 120401BA

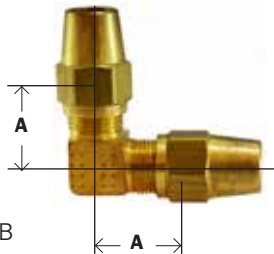
64AB
AB64

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38188	1/4"	0.62	0.16	----
38189	3/8"	0.82	0.24	----
38190	1/2"	0.94	0.48	----
38191	5/8"			

264AB 1364

ELBOW

SAE# 120201BA

65AB
A65

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38196	1/4"	0.62	0.10	----

265AB 1365

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

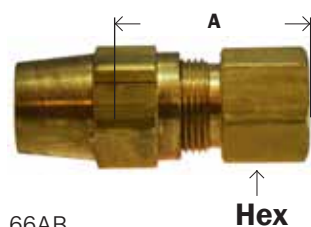


D.O.T. AIR BRAKE - COPPER TUBING

BRASS FITTINGS

FEMALE ADAPTER

SAE# 120103BA



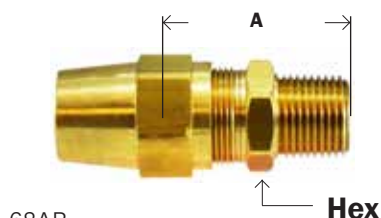
66AB
AB66

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
38204	1/4" x 1/8"	0.84	0.56	0.08	----
38205	1/4" x 1/4"	1.07	0.68	0.10	----
38206	3/8" x 1/8"	1.00	0.56	0.10	----
38207	3/8" x 1/4"	1.19	0.68	0.12	----
38208	3/8" x 3/8"	1.18	0.87	0.16	----
38209	1/2" x 3/8"	1.27	0.87	0.18	----
38210	1/2" x 1/2"	1.44	1.06	0.20	----
38211	5/8" x 3/8"	1.31	0.87	0.24	----
38212	5/8" x 1/2"	0.50	1.06	0.26	----
38213	3/4" x 1/2"				----

66AB 1366

MALE ADAPTER

SAE# 120102BA



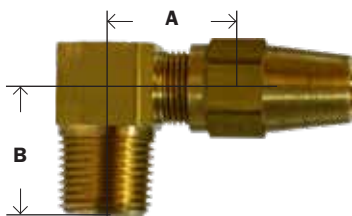
68AB
AB68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
38217	1/4" x 1/8"	0.88	0.43	0.06	----
38218	1/4" x 1/4"	0.97	0.56	0.08	----
38221	3/8" x 1/4"	1.09	0.56	0.10	----
38222	3/8" x 3/8"	1.19	0.69	0.12	----
38223	3/8" x 1/2"	1.45	0.87	0.18	----
38224	1/2" x 1/4"	1.32	0.69	0.16	----
38225	1/2" x 3/8"	1.35	0.69	0.18	----
38226	1/2" x 1/2"	1.51	0.87	0.24	----
38227	5/8" x 3/8"	1.39	0.81	0.22	----
38228	5/8" x 1/2"	1.57	0.87	0.24	----
38229	3/4" x 1/2"	1.67	1.00	0.34	----

68AB 368

90° MALE ELBOW

SAE# 120202BA



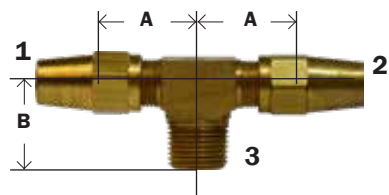
69AB
AB69

PART #	TUBE O.D. X MALE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
38235	1/4" x 1/8"	0.64	0.76	0.08	----
38236	1/4" x 1/4"	0.69	0.88	0.10	----
38237	1/4" x 3/8"	0.73	0.86	0.14	----
38239	3/8" x 1/4"	0.80	0.93	0.12	----
38240	3/8" x 3/8"	0.83	0.90	0.16	----
38241	3/8" x 1/2"				----
38243	1/2" x 3/8"	0.92	0.98	0.22	----
38244	1/2" x 1/2"	1.04	1.19	0.30	----
38246	5/8" x 1/2"	1.10	1.25	0.36	----

269AB 1369

MALE BRANCH TEE

SAE# 120425BA



72AB
AB72

PART #	TUBE O.D. X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
38278	3/8" x 1/4"	0.78	0.91	0.18	----
38279	3/8" x 3/8"	0.85	0.92	0.24	----

272AB 1372

D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

D.O.T. AIR BRAKE REUSABLE HOSE/ FITTINGS**•Typical Application**

Air Brake hose connections.
Meets SAE & DOT specifications
(FMVCS 10 GAL)

•Pressure

Determined by maximum working pressure for hose
size. Up to 125 psi

Temperature: -40°F to + 120° F (-40°C to +48°C)

•Advantages

Can be used for nearly any brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

• Tolerance

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

•Assembly Instructions

- 1- Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.
- 2- Push hose into fitting until it bottoms.
- 3- Screw nut until contact is made with body hex.

NOTE: When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should never be reused.

SLEEVE

FERRULE

60HE
HE60



PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38300	3/8"	0.02	----
38301	1/2"	0.02	----

#60HC 3380-A 0903610 367 60RB

NUT

61HE
HE61



PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38306	3/8"	0.04	----
38307	1/2"	0.06	----

61RB #61HC 369 3380-B 0903624

NUT FOR USE WITH SPRING

61HES
HE61N



PART #	HOSE I.D. SIZE	THREAD	APPROX. WT. LBS.	LIST PRICE
38312	3/8"	31/32-20	0.04	----
38313	1/2"	1-3/32-20	0.06	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

SPRING



61HSG
HE61G

PART #	HOSE I.D.	APPROX. WT. LBS.	LIST PRICE
38351	3/8"	0.20	----
38352	1/2"	0.22	----

#60SG 0901045 3380-C 377

NUT AND SPRING ASSEMBLY



HE61NG

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38015	3/8"	0.18	----
38016	1/2"	0.24	----

379 67RBSG 0999999

UNION



62HE
HE62

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	LIST PRICE
38318	3/8"	31/32-20	0.32	----
38319	1/2"	1-1/8-20	0.48	----

#62HC 3380B-Y0 362



BODY ONLY

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	LIST PRICE
39318	3/8"	31/32-20	0.32	----
39319	1/2"	1-1/8-20	0.48	----

FEMALE CONNECTOR HOSE



66HEA

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	LIST PRICE
38357	3/8" x 3/4-20	0.24	----
38358	1/2" x 7/8-20	0.39	----

#66ABS 66RBSV 3380B-Y7 386



BODY ONLY

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	LIST PRICE
39357	3/8" x 3/4-20	0.24	----
39358	1/2" x 7/8-20	0.38	----

MALE CONNECTOR



68HEA
HE68S

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38363	3/8" x 1/4"	0.38	----
38364	1/2" x 3/8"	0.46	----

#68ABS 09155 3380B-Y8 387

D.O.T. AIR BRAKE - HOSE/ENDS**BRASS FITTINGS****ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED**68HEAB
1390

PART #	MALE ABS X MALE PIPE	ABS THREAD	APPROX. WT. LBS.	LIST PRICE
38369	3/8" x 1/4"	3/4-20	0.05	----
38368	3/8" x 3/8"	3/4-20	0.08	----
38372	3/8" x 1/2"	3/4-20	0.12	----
38370	1/2" x 3/8"	7/8-20	0.10	----
38371	1/2" x 1/2"	7/8-20	0.12	----

#68ABS 1390 76RB 388

MALE ADAPTER68HE
HE68

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38333	3/8" x 1/4"	0.22	----
38334	3/8" x 3/8"	0.24	----
38335	3/8" x 1/2"	0.26	----
38336	1/2" x 3/8"	0.33	----
38337	1/2" x 1/2"	0.36	----

#68HC 368 3380B-Y2 68RB

ADAPTER BODY68HEB
HE68B

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38324	3/8" x 1/4"	0.12	----
38325	3/8" x 3/8"	0.14	----
38326	3/8" x 1/2"	0.20	----
38327	1/2" x 3/8"	0.18	----
38328	1/2" x 1/2"	0.20	----

#68B W1391Z

MALE ADAPTER68HES
HE68G

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38342	3/8" x 1/4"	0.32	----
38343	3/8" x 3/8"	0.34	----
38344	3/8" x 1/2"	0.38	----
38345	1/2" x 3/8"	0.48	----
38346	1/2" x 1/2"	0.52	----

#68HCS 3380B-Y3 68RBSG 378

“The man who removes a mountain begins
by carrying away small stones.”

- Chinese Proverb

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

- 8000 PSI MAX. PRES-
- EXCEEDS 12HR SALT

Meets SAE #J-534C
Many types available on special order.

• ASSORTMENTS ALSO

PIPE THREAD

BALL CHECK - 1/8-27 NPTF

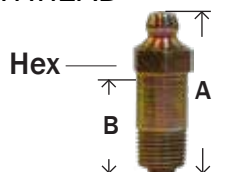


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36110	1/8" -27 NPTF	0.66	0.28	0.437	0.01	----
36110SS	303 SS	0.68	0.29	0.437	0.01	----
36111	Thread Forming	0.62	0.23	0.437	0.01	----

#610 1610 2800 1720 5000

PIPE THREAD

BALL CHECK

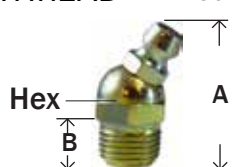


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36112	1/8" -27 NPTF	1.25	0.22	0.437	0.02	----
36113	1/8" -27 NPTF	1.75	1.26	0.437	0.02	----

#607 1607 2800 1669 5003

PIPE THREAD

30° ANGLE BALL CHECK

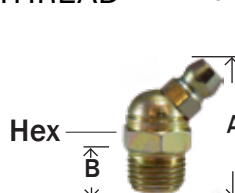


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36114	1/8" -27 NPTF	0.90	0.30	0.437	0.01	----

#611 1611 2830 5100

PIPE THREAD

45° ANGLE BALL CHECK

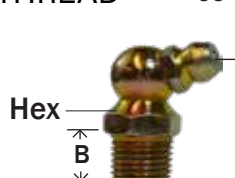


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36116	1/8" -27 NPTF	0.88	0.22	0.437	0.01	----
36116SS	303 SS	0.95	0.29	0.437	0.01	----

#688 1688 2845 5200

PIPE THREAD

65° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36118	1/8" -27 NPTF	0.86	0.30	0.437	0.01	----

#612 1612 2865 5300

PIPE THREAD

90° ANGLE BALL CHECK



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36120	1/8" -27 NPTF	0.84	0.30	0.437	0.01	----
36120SS	303 SS	0.84	0.29	0.437	0.01	----
36121	1/8" -27 NPTF	1.81	1.25	0.437	0.01	----

#613 1613 2890 5400 5407

PIPE THREAD

BALL CHECK - 1/4-18 NPTF



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36130	1/4" -18 NPTF	0.84	0.30	0.437	0.02	----
36130SS	303 SS	0.87	0.42	0.437	0.02	----

#627 1627 2900K 5050

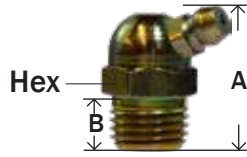
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

STEEL GREASE FITTINGS

BRASS FITTINGS

PIPE THREAD

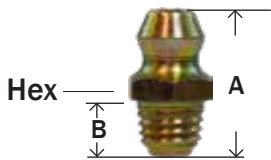


65° ANGLE BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36132	1/4"-18 NPTF	0.97	0.34	0.56	0.02	----

#629 1629 2965 5350

1/4-28 TAPER THREAD

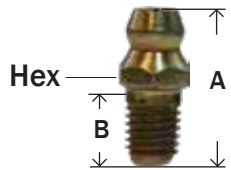


SHORT BALL CHECK - 1/4-28 NPTF

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36140	1/4"-28 NPTF	0.54	0.18	0.31	0.01	----
36140SS	303 SS	0.54	0.18	0.31	0.01	----
36141	Thread Forming	0.55	0.10	0.31	0.01	----

#641 1641 2400 3038 5010

1/4-28 TAPER THREAD

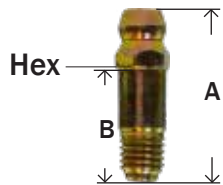


LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36142	1/4"-28 Taper Thread	0.69	0.34	0.312	0.01	----

#652 1652 2400 5013

1/4-28 TAPER THREAD

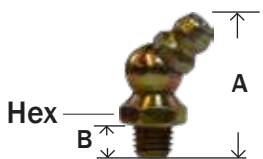


EXTRA LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36144	1/4"-28 Taper Thread	0.92	0.60	0.312	0.02	----

#680 1680 2400 5014

1/4-28 TAPER THREAD

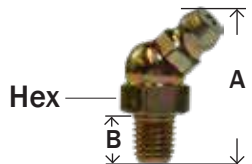


SHORT 45° BALL CHECK

PART #	SIZE	AN- GLE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36146	1/4"-28 Taper Thread	45°	0.82	0.20	0.375	0.02	----
36146SS	303 SS	45°	0.81	0.20	0.375	0.02	----

#637 1637 2445 1665 2465 3010 5210

1/4-28 TAPER THREAD

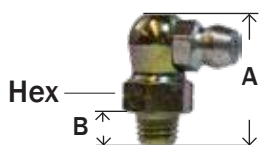


LONG 45° BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36148	1/4"-28 Taper Thread	0.94	0.30	0.375	0.02	----

#636 1630 2445

1/4-28 TAPER THREAD



90° ANGLE BALL CHECK

SAE# A515002

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36150	1/4"-28 Taper Thread	0.75	0.10	0.375	0.02	----
36150SS	303 SS	0.75	0.20	0.375	0.02	----
36152	Thread Forming	0.75	0.16	0.375	0.02	----

#911 1911 2490 3054 5410

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

DRIVE TYPE

BALL CHECK Drive Type

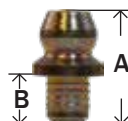


PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36160	5/16"	0.55	0.25	0.01	----

#608 1608 5021

DRIVE TYPE

BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36164	3/16"	0.52	0.25	0.01	----
36164SS	303 SS	0.51	0.25	0.01	----

#728 1728 2316 5033

DRIVE TYPE

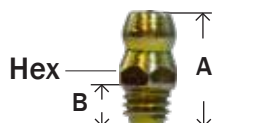
BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36166	1/4"	0.55	0.23	0.01	----
36166SS	303 SS	0.55	0.23	0.01	----

#743 1743 214 5029

METRIC



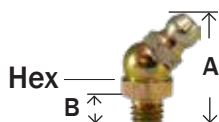
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36168	6MM x 1	16	3.7	7	0.01	----

(Diameter x Pitch)

#711 6000 2106 2M6 5175

METRIC

45° ANGLE

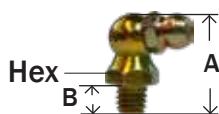


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36170	6MM x 1	21	3.7	9	0.02	----

#712 6045 2107 5176

METRIC

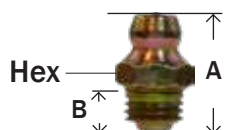
90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36172	6MM x 1	18	3.7	9	0.02	----

#713 6090 2108 ZM906 5177

METRIC

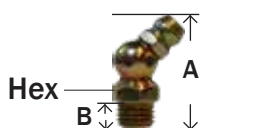


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36174	8MM x 1	16	3.7	9	0.02	----

#811 8000 2103 ZM58 5178

METRIC

45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36176	8MM x 1	21	3.7	9	0.02	----

#812 8045 2104 ZM458 5179

METRIC

90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36178	8MM x 1	18	3.7	9	0.02	----

#813 8090 2105 ZM908 5180

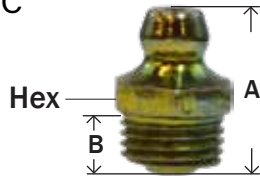
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

STEEL GREASE FITTINGS

BRASS FITTINGS

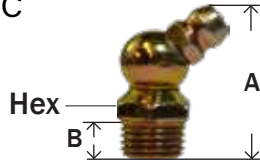
METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36180	10MM x 1	16	3.7	11	0.02	----

• DIAMETER X PITCH (EXTRA FINE) #911 9000 2109 ZM510 5181

METRIC

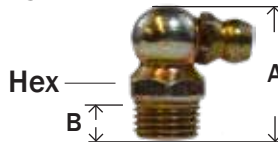


45° ANGLE

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36182	10MM x 1	21	3.7	11	0.02	----

#912 9045 2110 ZM4510

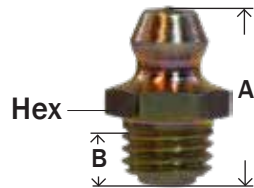
METRIC



90° ANGLE

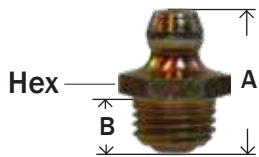
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36184	10MM x 1	18	3.7	11	0.02	----

#913 9090 2111 ZM9010 5183



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36186	5/16"-24	0.65	0.12	0.375	0.02	----

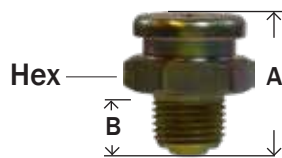
#711-B 1711 2500



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36188	3/8"-24	0.65	0.14	0.437	0.01	----

#710-B 1710 2600

BUTTON HEAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36200	1/8"-27 PTF	0.75	0.34	0.625	0.03	----
36205	1/4"-18 NPT	0.83	0.44	0.625	0.03	----

1184 1186

WHIP HOSE - EXCEEDS SAE 100R1-AT - USE WITH HAND GREASE GUNS ONLY 10,000 PSI BURST PRESSURE RUB-



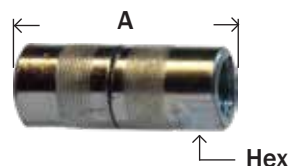
1/8" NPT SOLID
3/16" ID

3,000 PSI WORKING PRESSURE

PART #	LENGTH	LIST PRICE
36210	12" RUBBER	----
36212	18" RUBBER	----
36214	24" RUBBER	----
36216	36" RUBBER	----

4 JAW GREASE GUN COUPLER

PROVIDES QUICK, POSITIVE, LEAKPROOF CONNECTION W/ GREASE



1/8" NPTF

PART #	A	HEX	APPROX. WT. LBS.	LIST PRICE
36220	1.50	0.56	0.05	----

STEEL GREASE FITTINGS

BRASS FITTINGS

ADAPTERS FOR GREASE FITTINGS

ADAPTERS

• CARBON STEEL, ZINC COATED



PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36300	1/8"-27 NPTF	1/4"-28" SAE-LT	.75	1/2	0.02	----
36301	1/8"-27 NPTF	1/4"-28" SAE-LT	.87	1/2	0.02	----



PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	LIST PRICE
36304	1/4"-28 UNF	M6 x 1.0	.43	9mm	0.01	----
36305	1/4"-28 UNF	M8 x 1.0	.45	3/8	0.01	----
36306	1/4"-28 UNF	M10 x 1.0	.32	7/16	0.01	----

EXTENSIONS



PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	LIST PRICE
36307	1/4"-28 UNF	1/4"-28 SAE-LT	1.34	-	0.01	----
36308	1/8"-27 NPTF	1/8"-27 NPTF	.75	1/2	0.02	----
36309*	1/8"-27 NPTF	1/8"-27 NPTF	.82	1/2	0.02	----
36310	1/8"-27 NPTF	1/8"-27 NPTF	.94	9/16	0.04	----
36311	1/8"-27 NPTF	1/8"-27 NPTF	1.25	1/2	0.04	----

*BRASS PLATED

45° ANGLE ELBOWS



PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36360	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.02	----
36362	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	----

90° ANGLE ELBOWS



PART #	FEMALE	MALE	L	H		LIST PRICE
36370	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.03	----
36371	1/8"-27 NPTF	1/4"-28 SAE-LT	1.04	1/2	0.03	----
36372	1/8"-27 NPTF	1/4"-18 PTF SAE Short	1.19	9/16	0.06	----
36374	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	----
36375	1/8"-27 NPTF	1/8"-27 NPTF	1.13	1/2	0.03	----
36377	1/4"-18 NPTF	1/4"-18 NPTF	1.34	11/16	0.08	----
36376	1/8"-27 NPTF	1/8"-27 NPTF	1.50	5/8	0.07	----

COUPLING



PART #	FEMALE	FEMALE	L	H	WEIGHT	LIST PRICE
36340	1/4"-28 UNF	1/8"-27 NPTF	.65	1/2	0.02	----

BULKHEAD CONNECTOR



SPECIALTY VALVES

BRASS FITTINGS

SPECIALTY VALVES AND COCKS**DRAIN COCKS****AIR VALVES****3, 4 AND 6 WAY****NEEDLE****MARINE & ANTI-SIPHON****PANEL MOUNT BALL VALVES****TRUCK****MINI BALL****SOLID BOTTOM SHUT-OFF****CHECK****SPRING BOTTOM SHUT-OFF**

See our valve section for much, much more!

DRAIN COCKS

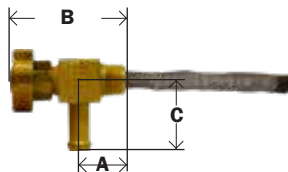
BRASS FITTINGS

DRAIN COCKS

- For use with low pressure air, water and fluids.
- Designed for a working pressure of 150 psi @ 250°.
- Hand-tightening provides a metal-to-metal seal.
- Not intended for natural gas, LPG, nuclear or aircraft applications.

Install on your tank for easy draining

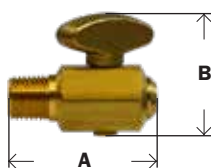
GASOLINE SHUT OFF W/ SCREEN FILTER



PART #	BARB X MALE PIPE	A	B	C	APPROX. WT. LBS.	LIST PRICE
46064	1/4" x 1/8"	0.55	1.34	0.66	0.06	----

827

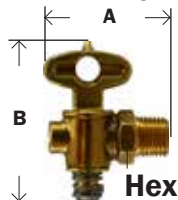
DRAIN COCK 150 PSI - TRUNK AIR TANK



PART #	MALE PIPE	A	B	APPROX. WT. LBS.	LIST PRICE
46066	1/4"	1.73	1.41	0.22	----

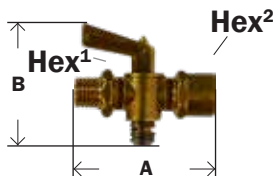
DCR601-4

TRUCK DRAIN - 125 P.S.I.G



PART #	MALE PIPE	INDUS- TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46067	1/8"		1.53	1.95	0.62	0.14	----

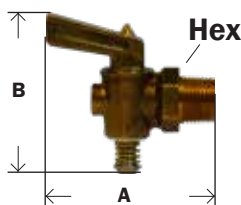
SHUT OFF - 150 P.S.I MAX.



PART #	MALE PIPE X FEMALE PIPE	INDUS- TRY NUMBER	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
46069	1/4"	W20332	1.96	1.96	0.75	0.62	0.20	----

#60HC 3380-A 0903610 367

LEVER HANDLE



PART #	MALE PIPE	INDUS- TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46070	1/8"	M-41-P	1.99	1.80	0.62	0.04	----
46071	1/4"	M-42-P	2.06	1.81	0.62	0.06	----
46072	3/8"	M-43-P	2.30	2.29	0.81	0.08	----
46073	1/2"	M-44-P	3.00	2.50	0.87	0.16	----

- 30 psi

*Valve is closed when handle is in the position of the picture

840 41D DC601

AIR TANK DRAIN PULL VALVE



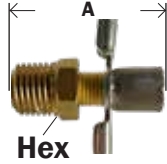
PART #	SIZE	DESCRIPTION	LIST PRICE
39595	1/4" male	5ft nylon coated pull cable	----
39596	1/4" male	4ft nylon coated pull cable	----
39597	1/4" male	3ft nylon coated pull cable	----
39600	1/4" male	Air valve only	----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

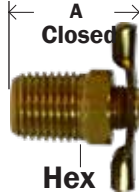
DRAIN COCKS

BRASS FITTINGS

INTERNAL SEAT

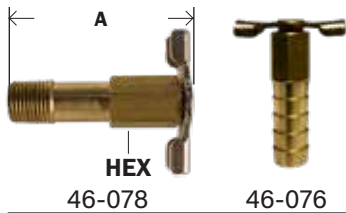
PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46079	1/8"	6783	1.45	0.55	0.02	----

DC602 808 400A 1800A

INTERNAL SEAT - WING NUT HANDLE

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46074	1/8"	130	0.92	0.40	0.04	----
46075	1/4"	140	0.94	0.56	0.06	----
46077	3/8"	230	1.27	0.68	0.08	----

HB - 5/16 803 305A

LONG INTERNAL SEAT

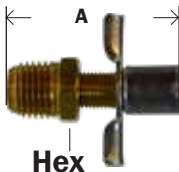
PART #	SIZE	IND #	A	HEX	APPROX. WT. LBS.	LIST PRICE
46078	1/8 MIP	1.85				----
46076	3/8" Hose I.D.		1.65	0.43	0.02	----

809

PIN HANDLE - INTERNAL SEAT

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46080	1/8"	M-200-P	1.22	0.50	0.04	----
46081	1/4"	M-201-P	1.31	0.56	0.06	----
46082	3/8"	M-202-P	1.53	0.68	0.12	----

DC603 802

EXTERNAL SEAT W/ SPOUT

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46084*	1/4"	6788	1.56	0.56	0.02	----

* Replaces GM # 511771 & Chrysler #836015

200A 239 DC606 807

BIBB VALVE

PART #	MALE PIPE	INDUSTRY NUMBER	A	B*	C	APPROX. WT. LBS.	LIST PRICE
46088	1/8"	150	0.82	1.60	0.55	0.04	----
46089	1/4"	120	0.89	1.59	0.54	0.06	----
46089A	1/4"	6660	0.55	1.34	0.66	0.06	----

* With valve closed

804 DC607 2019 201DH

RADIATOR TYPE - EXTERNAL SEAT

PART #	MALE PIPE	INDUSTRY NUMBER	IND #	A	HEX	APPROX. WT. LBS.	LIST PRICE
46085	1/8"	M-320-P	135	0.90	0.43	0.02	----
46086	1/4"	M-321-P	145	1.00	0.56	0.04	----
46087	3/8"	M-322-P	270	1.25	0.68	0.08	----
46083	1/2"	108	108	1.48	0.87	0.12	----

320D 240 DC604 801

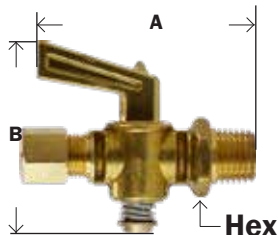
SHUT-OFF COCKS

BRASS FITTINGS

- Designed for working pressure of 30 PSI.
- Forged brass bodies and brass handles.

- Instantaneous off-on operation with 360° rotation.
- Not good for gasoline.

COMPRESSION X MALE PIPE

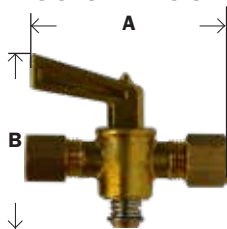


PART #	COMP X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46130	1/4" x 1/8"	27-C	1.87	1.81	0.51	0.14	----
46131	1/4" x 1/4"	227-C	2.05	1.86	0.62	0.15	----
46132	5/16" x 1/8"	29-C	2.05	1.90	0.50	0.16	----
46134	3/8" x 1/4"	57-C	2.05	1.83	0.62	0.15	----

868 V304C 2068 133C VC206

COMPRESSION X COMPRESSION

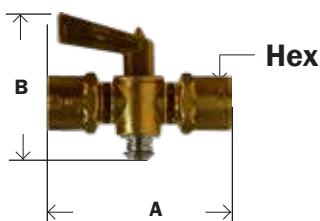
* See pg. 73-74 to order nut and sleeve separately.



PART #	COMP X COMP	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46140	1/4"	28-C	1.82	1.84	0.12	----
46141	5/16"	30-C	1.84	1.88	0.14	----
46142	3/8"	58-C	1.87	1.80	0.14	----
46143	1/2"	68-C	2.21	2.32	0.22	----

V3030F 2062 134C

FEMALE X FEMALE PIPE

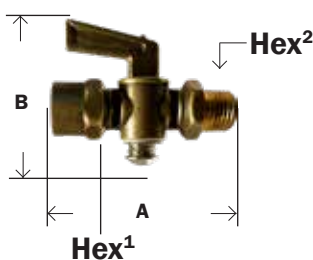


PART #	FEMALE PIPE X FEMALE PIPE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46151	1/8"	1.77	1.79	0.56	0.12	----
46152	1/4"	2.28	1.82	0.69	0.20	----
46152T*	1/4"	2.28	2.00	0.68	0.20	----
46153	3/8"	2.44	2.28	0.81	0.30	----

* 150 PSI

V403P 132C 875

MALE PIPE X FEMALE

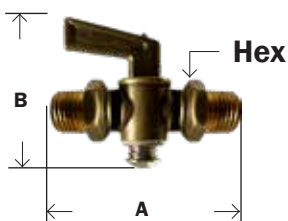


PART #	MALE PIPE X FEMALE PIPE	IND. #	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
46160	1/8"	48-P	2.03	1.84	0.50	0.56	0.14	----
46161	1/4"	49-P	2.26	1.79	0.69	0.69	0.18	----
46161T*	1/4"		2.26	1.98	0.69	0.69	0.20	----
46162	3/8"	50-P	2.33	2.28	0.82	0.82	0.28	----

* 150 PSI

880 V402P 130C

MALE PIPE X MALE PIPE



PART #	MALE PIPE X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46165	1/8"	76-P	2.15	1.80	0.69	0.12	----
46166	1/4"	77-P	2.22	1.84	0.70	0.17	----
46166T*	1/4"		2.23	2.00	0.68	0.18	----
46167	3/8"	78-P	2.43	2.24	0.82	0.22	----

* 150 PSI

1V401P 890

NEEDLE VALVES

BRASS FITTINGS

NEEDLE VALVES

THESE ARE NOT LEAD FREE SEE PAGES 169 FOR LEAD FREE PRODUCTS

Made with either pin handle or pressed on handle.

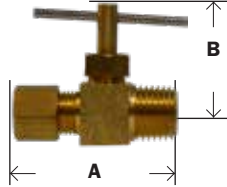
Please specify if you have a preference.

- Used on instrumentation, hydraulic, and pneumatic systems.
- Designed for a maximum working pressure of 150 PSI. or

- Provided with steel handles and metal-to-seats with fine-thread screwdown.
- Not designed for natural gas, LPG, nuclear aircraft applications.

- Always install with pressure against the seat.

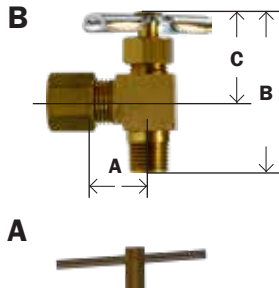
COMP X MALE PIPE



PART #	COMP X MALE PIPE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46002	1/4" x 1/8"	M-101-C	1.29	1.12	0.07	----
46003	1/4" x 1/4"	M-101-C	1.27	1.14	0.10	----

NV106C 2205 820 3068

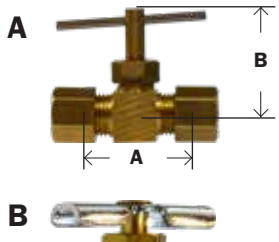
COMP X MALE PIPE-ANGLE



PART #	COMP X MALE PIPE	HAN- DLE	IND. #	A	B	C	APPROX. WT. LBS.	LIST PRICE
46011	1/4" x 1/8"	A	M-103-C	0.56	1.48	0.93	0.08	----
46011X	Heavy Pat- tern	B	M-103-C	0.53	1.53	0.83	0.08	----
46012	1/4" x 1/4"	B	M-104-C	0.62	1.67	0.90	0.13	----
46013	5/16" x 1/8"	B	M-104-C	0.63	1.63	0.95	0.10	----

NV104C 2203 821 3069

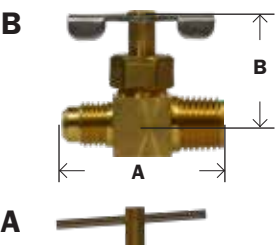
COMP X COMP



PART #	COMP X COMP	HAN- DLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46020	3/16"	B	M-105-C	1.06	0.88	0.08	----
46021	1/4"	A	M-106-C	1.17	1.12	0.10	----
46022	5/16"	A	M-107-C	1.22	1.08	0.12	----
46023	3/8"	B	M-113-C	1.31	1.15	0.13	----

NV105C 3062 2201 822

FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	HAN- DLE	IND. #	A	B	AP- PROX. WT. LBS.	LIST PRICE
46028	1/4" x 1/8"	A	M-104-SAE	1.35	1.12	0.07	----
46029	1/4" x 1/4"	B	M-1040-SAE	1.38	0.88	0.09	----
46031	3/8" x 1/4"	B	M-108-SAE	1.73	1.22	0.18	----

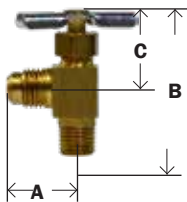
NV103F 2405 823 3048

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NEEDLE VALVES

BRASS FITTINGS

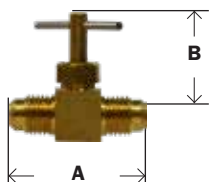
FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	IND. #	A	B	C	APPROX. WT. LBS.	LIST PRICE
46036	1/4" x 1/8"	M-103-SAE	0.68	1.54	0.86	0.08	----
46038	5/16" x 1/8"	M-203-SAE	0.88	1.59	0.94	0.11	----
46039	5/16" x 1/4"	M-204-SAE	0.90	1.94	1.00	0.14	----
46040	3/8" x 1/4"	M-303-SAE	0.95	1.86	0.90	0.17	----

NV101F 2403 824 3049

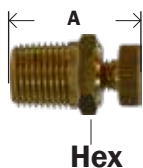
FLARE X FLARE



PART #	MALE FLARE X MALE FLARE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46045	1/4"	M-110-SAE	1.48	1.20	0.18	----
46046	3/8"	M-115-SAE	1.79	1.19	0.20	----

NV102F 3042 825 2401

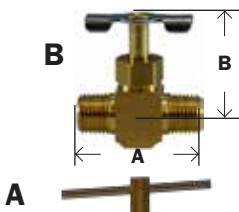
MULTI-PURPOSE AIR VENT



PART #	MALE PIPE	A	HEX	APPROX. WT. LBS.	LIST PRICE
46048	1/8"	0.78	0.43	0.02	----

705

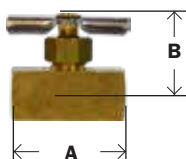
MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46050	1/8"	A	M-108-P	1.25	1.09	0.08	----
46051	1/4"	B	M-110-P	1.69	1.00	0.16	----

NV107P 2301 826 3122

FEMALE PIPE X FEMALE PIPE

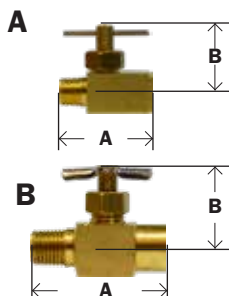


PART #	FEMALE PIPE X FEMALE PIPE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46055*	1/8"	M-304-P	1.18	0.84	0.18	----
46056	1/4"	M-3044-P	1.60	1.24	0.21	----
46056P*	1/4" Heavy	M-3044-P	1.62	2.53	0.20	----

* Pressed on handle

6800 NV109P 2304 817 3103

MALE X FEMALE PIPE



NBR seals -30°C to 120°C

PART #	MALE PIPE X FEMALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46060	1/8"	A	M-305-P	1.18	1.09	0.10	----
46061	1/4"	A	M-3055-P	1.60	1.14	0.18	----
46061L	1/4" Light Pattern	B	M-3055-P	1.88	1.09	0.21	----

NV108P 2305 818 3120

SPECIALTY VALVES

BRASS FITTINGS

BRASS TRUCK VALVES

- Used in heavy duty truck, trailer and mobile markets.
- Used on water, oil and coolant lines.
- Forged brass construction with steel handle.
- Temperature range -40° - 250°
- Max pressure 250 psi
- Metal to metal seats for high heat/ fluid compatibility
- Fine thread screw down to afford flow control ability and a positive seal.
- Not intended for natural gas, LPG, Nuclear or aircraft applications

200 PSI



TV44

BARB TO MALE PIPE

PART #	SIZE	LIST PRICE
46450	3/8 x 3/8	----
46451	5/8 x 3/8	----
46455	5/8 x 1/2	----
46457	3/4 x 3/8	----

404V



TV45

FEMALE TO MALE PIPE

PART #	SIZE	LIST PRICE
46465	3/8 x 3/8	----
46466	3/8 x 1/2	----

405V

TV49



FLARE TO MALE PIPE

PART #	SIZE	LIST PRICE
46475	1/2 x 1/2	----

409V



TV412

MIP X FLARE

SOLID BOTTOM VALVES

- Designed for instantaneous on-off operation.
- 360° rotation standard.
- 30 PSI
- Packed with grease.



8875

O-RING SEALED MIP X FIP

PART #	SIZE	LIST PRICE
46400	1/8	----
46401	1/4	----

1035D M-70-SBV

- Good for Propane



#M-72-SBV
FIP X FIP

SOLID BOTTOM FUEL VALVES

- Approved for use on Motorcraft fuel lines.
- Pointer lever.
- 90° turn stop mechanism to assure positive location of the on and off positions.
- Corrosion proofed internal construction assures maximum salt atmosphere protection.
- Port hole is 1/4 (.250) diameter.
- UL listed for use in fuel oils no. 1 & no. 2, LP gas and utility gas.



8980

PIPE MALE X FEMALE

PART #	SIZE	LIST PRICE
46400M	1/8 x 1/8	----
46401M	1/4 x 1/4	----



PIPE MALE X MALE

PART #	SIZE	LIST PRICE
46406M	1/4 x 1/4	----

- Good for Propane



PIPE FEMALE X FEMALE

8975



MALE PIPE X FLARE

PART #	SIZE	LIST PRICE
46429M	1/4 x 3/8	----
46430M	3/8 x 3/8	----

8948

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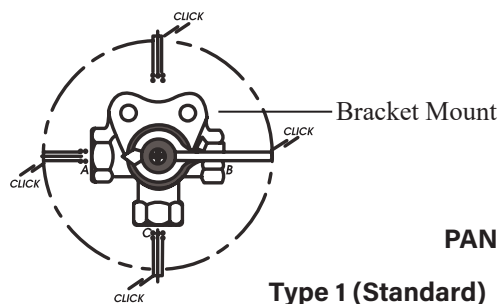
SPECIALTY VALVES

BRASS FITTINGS

GROUND PLUG SHUT-OFF COCKS

NON-LUBRICATED PLUG VALVES are designed to operate in systems where INSTANTANEOUS PORT SELECTION is desired. Since LUBRICANTS ARE NOT USED, relubrication is not required. There is no lubricant to freeze and lock the valve or to contaminate fine fluids. The O-RING SEALED CAP and STEM eliminate leakage to atmosphere. The mating BRASS BODY and CELCON PLUG produce a fine seal that WILL NOT SEIZE OR GALL.

Designed for PANEL or BRACKET MOUNTING. They are generally recommended for operation in GASOLINE, OIL, AIR, WATER and DETERGENT systems from minus 40° to 180°F, at a maximum operating pressure of 30 p.s.i.g. The fluid port size is 9/32 (.281) diameter for 1/8 and 1/4 sizes, 5/16 (.312) diameter for the 3/8 size. **(Consult factory for applications)**

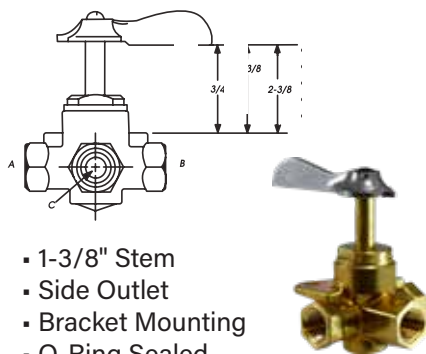


PANEL MOUNTING AVAILABLE

Type 1 (Standard)

A pronounced "click" may be felt at each position.

THREE-WAY VALVES (Side Outlet)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

PART #	A-B-C FE- MALE PIPE THREAD	LENGTH OF STEM	
46247	1/4	1-3/8"	----
46248	3/8	1-3/8"	----

M-108-MID WITH CLICK 360°

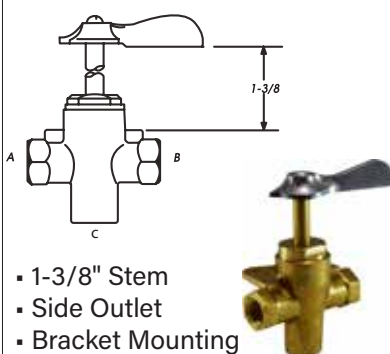
PART #	A-B-C FE- MALE PIPE THREAD	LENGTH OF STEM	
46250	1/8	1-3/8"	----
46251	1/4	1-3/8"	----
46252	3/8	1-3/8"	----

V406P 6749

Openings:

Handle Pointer over A.....Valve Open A-C
Handle Pointer over C.....Valve Open B-C
Handle Pointer over B.....Valve "OFF"
Handle Pointer over Bracket.....Valve "OFF"

THREE-WAY VALVES (Bottom Outlet)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

PART #	A-B-C FE- MALE PIPE THREAD	LENGTH OF STEM	LIST
46241	1/4	1-3/8"	----

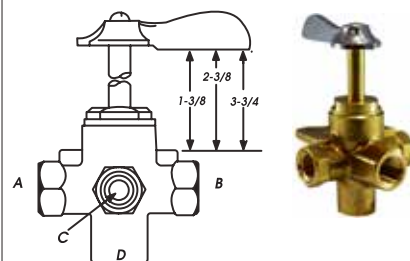
WITH CLICK 360°

PART #	A-B-C FE- MALE PIPE THREAD	LENGTH OF STEM	LIST
46243	1/8	1-3/8"	----
46244	1/4	1-3/8"	----

Openings:

Handle Pointer over A.....Valve Open A-C
Handle Pointer over B.....Valve Open B-C
Handle Pointer over Bracket.....Valve "OFF"

FOUR-WAY VALVES



- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

LESS CLICK

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46257	1/4	1-3/8"	----

M-114-MID WITH CLICK (360°)

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	
46255	1/4	1-3/8"	----
46256	3/8	1-3/8"	----

WITH 2-3/8" LONG STEM M-115-MID

Part #	A-B-C-D Female Pipe Thread	Length of Stem	List Price
46260	1/4	2-3/8"	----

Openings:

Handle Pointer over A.....Valve Open A-D
Handle Pointer over C.....Valve Open C-D
Handle Pointer over B.....Valve Open B-D
Handle Pointer over Bracket.....Valve "OFF"

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MARINE FITTINGS

BRASS FITTINGS

• Calibrated to support 30" column of gasoline.



BRASS ANTI-SIPHON VALVES

PART #	SIZE	LIST PRICE
46520	1/4 x 1/4	----
46521	3/8 x 3/8	----

• Flo direction <-



**BRASS ANTI-SIPHON VALVES
BARB X NPT**

PART #	SIZE	LIST PRICE
46529	1/4 x 1/4	----
46530	5/16 x 1/4	----
46531	3/8 x 1/4	----
46532	3/8 x 3/8	----



**MINI BALL VALVE - BRASS
W/ SS HANDLE AND NUT**

PART #	BARB X MIP	LIST PRICE
46986	5/6 x 1/4	----
46987	3/8 x 1/4	----
46988	3/8 x 3/8	----
46989	1/2 x 1/2	----



ALUMINUM

PART #	SIZE	LIST PRICE
46520A	1/4 x 1/4	----



ALUMINUM

PART #	SIZE	LIST PRICE
46530A	5/16 x 1/4	----
46531A	3/8 x 1/4	----
46532A	3/8 x 3/8	----

- NBR O-Ring
- Brass or Aluminum
- Working temp 180°F
- #316 Ball & Spring
- 3,000 PSI



MALE MIP X FEMALE FIP BRASS

PART #	SIZE	LIST PRICE
46523	1/4	----



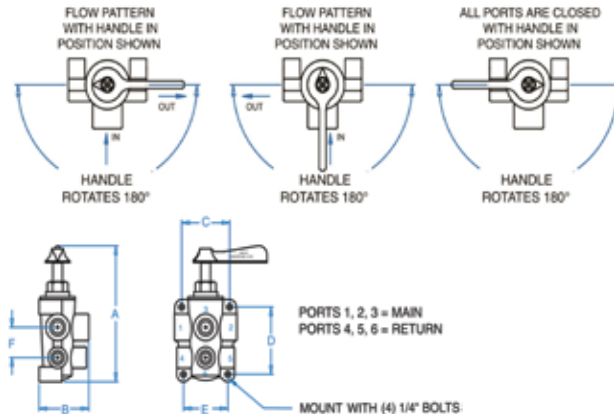
ALUMINUM

PART #	SIZE	LIST PRICE
46523A	1/4	----



FLARE X MIP - BRASS

SIX PORT VALVES



Six port fuel valves are used where 2 tanks supply a single engine, and a return to each supply tank is required.

ABYC H33.9.2 states that fuel system valves must have an independent means of support, so in-line valves are not

PART #	IND. #	FEMALE PIPE THREAD OF	STEM	LENGTH TYPE	LIST PRICE
46237	SK-1036	1-2-3 4-5-6 1/2 x 3/8	13/16	1	----



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MINIATURE BALL VALVES

BRASS FITTINGS

BRASS

MINIATURE BALL VALVES

- Working Pressure up to 1000 P.S.I.G.
- ASTM B-16 Corrosion Resistant Brass Body.
- Non-Adjusting Viton O-Ring Stem Seal Design Never Needs Tightening.
- Highly Inert Teflon Seats.
- Long Life Nickel Plated Brass Ball.
- Blow-Out Proof Stem for Safety.
- Temperature: -40°F to 300°F
- 1/4 Turn Instantaneous On-Off Operation.
- Quarter Turn Handle Design.
- Water, Oil, and Air Pressure Systems.
- Ideal for tight, confined areas, or when routing aesthetics are desired. Applications



MALE X FEMALE

PART #	SIZE	LIST PRICE
46900	1/8 x 1/8	----



MALE X MALE

PART #	SIZE	LIST PRICE
46910	1/8 x 1/8	----



MALE PIPE X HOSE BARB

PART #	SIZE	LIST PRICE
47042	1/8 x 1/4	----
46980	1/4 x 1/4	----

FEMALE X FEMALE



PART #	SIZE	LIST PRICE
46920	1/8 x 1/8	----
46921	1/8 x 1/4	----



PART #	SIZE	LIST PRICE
46922A	1/4 x 1/4	----



PART #	SIZE	LIST PRICE
46924	1/2 x 1/2	----

U.L. TWO WAY VALVES

- Buna-N Seal, Teflon Seat Plated metal handle, plated brass ball.



U.L. TWO WAY VALVES



U.L. TWO WAY VALVES

PANEL MOUNT

BRASS BALL VALVES

- Working pressure: 1500 psi wog for 1/8" to 1/4", 1000 psi wog for 3/8" to 1/2"
- Vacuum rating: 29.92" Hg
- Working temp: -40°F to +300°F
- Panel mount hole is 9/16" Dia.
- Brass body cap, PTFE ball seats, Viton stem sealing, Brass chrome

FEMALE X FEMALE



PART #	SIZE	LIST PRICE
46830	1/8 x 1/8	----
46832	1/4 x 1/4	----
46833	3/8 x 3/8	----
46834	1/2 x 1/2	----

FEMALE X FEMALE



PART #	SIZE	LIST PRICE
46875	1/8 x 1/8	----
46878	1/4 x 1/4	----



PART #	SIZE	LIST PRICE
46951	1/8 FPT	----
46956	1/4 FPT	----

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BRASS

CHECK VALVES

BRASS FITTINGS

BRASS CHECK VALVES

- 500 PSI • 1 PSI Cracking Pressure
- Buna-N Seal for water, air & inert gas
- **Viton Seal for oil, gas & diesel fuel**



- 180° temp rating

FIP X FIP BUNA-N

PART #	SIZE	LIST PRICE
46560	1/8"	----
46561	1/4"	----
46562	3/8"	----
46563	1/2"	----
46564	3/4"	----

FIP X FIP VITON

PART #	SIZE	LIST PRICE
46560V	1/8"	----
46561V	1/4"	----
46562V	3/8"	----
46563V	1/2"	----
46564V	3/4"	----



FEMALE X MALE BUNA-N

PART #	SIZE	LIST PRICE
46565	1/8"	----
46566	1/4"	----
46567	3/8"	----
46568	1/2"	----
46569	3/4"	----



MALE X MALE

PART #	SIZE	LIST PRICE
46570	1/8"	----
46571	1/4"	----
46572	3/8"	----
46573	1/2"	----



MALE X FEMALE

PART #	SIZE	LIST PRICE
46575	1/8"	----
46576	1/4"	----
46577	3/8"	----
46578	1/2"	----

HIGH PRESSURE CHECK VALVES

MAX. 2500 PSI
Cracking Pressure 1 PSI

- Opening diameter .187
- 180° max operating temp.
- SS ball and spring
- CV = 0.4



MNPT X MNPT

PART #	SIZE	OPEN- ING DIA.	LIST PRICE
46500	1/4 x 1/4	0.187	----

MAX. 2500 PSI

- Flo direction ->
- Opening diameter .187
- 180° max operating temp.
- Buna Seal
- SS ball and spring



MNPT X FNPT

PART #	SIZE	OPEN- ING DIA.	LIST PRICE
46505	1/4 x 1/4	0.187	----

MAX. 1200 PSI

- O-Ring poppet seal Bubble tight operation
- 180°F max operating temp.



FNPT X FNPT

PART #	SIZE	OPEN- ING DIA.	LIST PRICE
46510	1/4 x 1/4	0.25	----
46511	3/8 x 3/8	0.375	----
46512	1/2 x 1/2	0.437	----

PNEUMATIC CHECK VALVES

- Max Operating Pressure: 220 psi
- Working Pressure: 14.5-145 psi
- Cracking Pressure: 2.8 psi
- Maximum Temperatures: 140° F

Body	Chrome plated Brass
Spring	Steel
O-Ring	NBR Rubber



NPT- Inlet NPSM - Outlet

PART #	SIZE	DIMENSIONS (IN.)		LIST PRICE
		A	B	
46-200	1/4	1.97	0.67	
46-201	3/8	1.97	0.83	
46-202	1/2	2.48	0.98	

HIGH PRESSURE CHECK VALVES

- Operates in any position, and is available in mixed or matched end combinations.
- Standard cracking pressure 1 p.s.i. with a maximum operating pressure of 3000 p.s.i. and a maximum operating temperature of 180°F using Buna-N seals.
- Buna-N seals standard, other seals available.
- Guided 316 stainless steel ball + spring.
- Fixed ringed seat prevents extrusion of seal.
- Opening diameter .28
- Approximate CV 1.2
- Water G.P.M. @ 10 p.s.i. is 4.0
- Good for air



FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46513	1/4	----



FEMALE X MALE

PART #	SIZE	LIST PRICE
46514	1/4	----



MALE X FEMALE

PART #	SIZE	LIST PRICE
46516	1/4	----



MALE X MALE

PART #	SIZE	LIST PRICE
46515	1/4	----

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LEAD FREE



What is the new lead-free requirement?

In 2011, the Reduction of Lead in Drinking Water Act was signed into law. The Act has reduced the lead content allowed in drinking water system and plumbing materials by changing the definition of "lead-free" in Section 1417 of the Safe Drinking Water Act.

The term "lead-free" has been updated from not more than 8% lead content to mean "not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures."

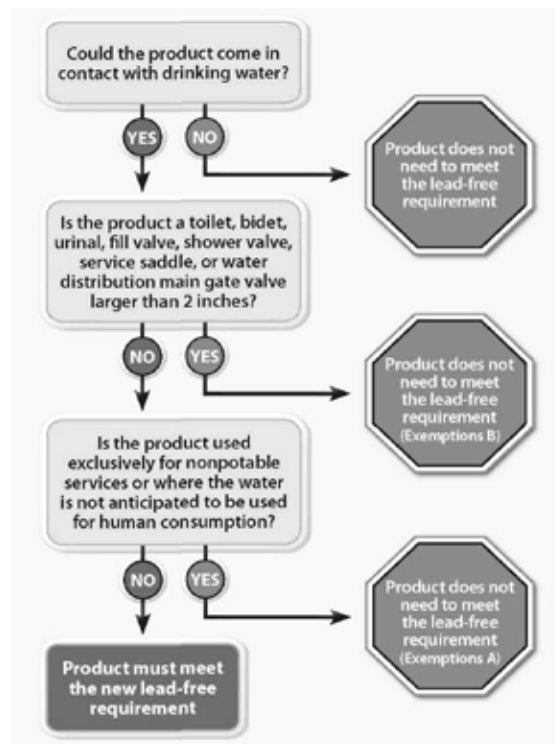
How do I know which products must meet the new lead-free requirement?

The prohibitions on use and introduction into commerce apply to all pipe, pipe fittings, plumbing fittings, and fixtures (henceforth referred to as "products"), including stocked inventories that have not been installed. This includes coated or uncoated brass or bronze materials. By using the flow-chart below as a guide, you can determine if a product must meet the new lead-free requirement:

Lead-Free Requirement Exemptions

(A) The new requirement does not apply to pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable service such as manufacturing, industrial processing, irrigation, outdoor watering or any other uses where the water is not anticipated to be used for human consumption.

(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.

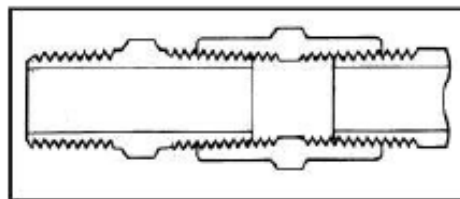


LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

BRASS PIPE FITTINGS LEAD FREE

- One piece construction, available in barstock or forgings
- Used with brass or steel pipe
- All pipe threads are "American Standard Taper Pipe Threads"
- Fair vibration resistance
- Used in low to medium pressure applications
- Teflon tape or pipe sealant is recommended
- Pipe threads should be tightened 2 1/2 turns past finger tight



Nominal Pipe Size	1/8	1/4	3/8	1/2	3/4	1
Thread size	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
Approx. Diameter in inches	3/8"	1/2"	5/8"	3/4"	1"	1-3/8"

BRASS PIPE FITTINGS

ELBOW 90° BARSTOCK



LF100

PART #	SIZE	LIST PRICE
28001LF	1/8"	----
28002LF	1/4"	----
28003LF	3/8"	----
28004LF	1/2"	----

ELBOW 90° FORGED



PART #	SIZE	LIST PRICE
28009LF	1/8"	----
28010LF	1/4"	----
28011LF	3/8"	----
28012LF	1/2"	----

REDUCING ELBOW FORGED



PART #	SIZE	LIST PRICE
28015LF	3/8" x 1/4"	----

ELBOW 45°



LF10045

PART #	SIZE	LIST PRICE
28018LF	1/8"	----

TEE BARSTOCK



LF101

PART #	SIZE	LIST PRICE
28024LF	1/8"	----
28025LF	1/4"	----
28026LF	3/8"	----
28027LF	1/2"	----

TEE FORGED



PART #	SIZE	LIST PRICE
28032LF	1/8"	----
28033LF	1/4"	----
28034LF	3/8"	----
28035LF	1/2"	----

REDUCING TEE FORGED



CROSS BARSTOCK

LF102



PART #	SIZE	LIST PRICE
28041LF	1/8"	----
28042LF	1/4"	----
28043LF	3/8"	----
28044LF	1/2"	----

COUPLING

LF103



PART #	SIZE	LIST PRICE
28058LF	1/8"	----
28059LF	1/4"	----
28060LF	3/8"	----
28061LF	1/2"	----

X-HEAVY COUPLING



UNION



LF104

PART #	SIZE	LIST PRICE
28067LF	1/8"	----
28068LF	1/4"	----
28069LF	3/8"	----
28070LF	1/2"	----

CAP

LF108



PART #	SIZE	LIST PRICE
28075LF	1/8"	----
28076LF	1/4"	----
28077LF	3/8"	----
28078LF	1/2"	----

PLUG CORED SQUARE HEAD

LF



PART #	SIZE	LIST PRICE
28084LF	1/8"	----
28085LF	1/4"	----
28086LF	3/8"	----
28087LF	1/2"	----

PLUG SOLID SQUARE HEAD



LF109SD

PART #	SIZE	LIST PRICE
28084SLF	1/8"	----
28085SLF	1/4"	----
28086SLF	3/8"	----
28087SLF	1/2"	----

COUNTERSUNK PLUG HEX



LF109AL

PART #	SIZE	LIST PRICE
28093LF	1/8"	----
28094LF	1/4"	----
28095LF	3/8"	----
28096LF	1/2"	----

PLUG CORED HEX HEAD

LF121



PART #	SIZE	LIST PRICE
28201LF	1/8"	----
28202LF	1/4"	----
28203LF	3/8"	----
28204LF	1/2"	----

PLUG SOLID HEX HEAD



PART #	SIZE	LIST PRICE
28201SLF	1/8"	----
28202SLF	1/4"	----
28203SLF	3/8"	----

HEX BUSHING



LF110

PART #	SIZE	LIST PRICE
28102LF	1/4" x 1/8"	----
28103LF	3/8" x 1/8"	----
28104LF	3/8" x 1/4"	----
28105LF	1/2" x 1/8"	----
28106LF	1/2" x 1/4"	----
28107LF	1/2" x 3/8"	----
28108LF	3/4" x 1/8"	----
28109LF	3/4" x 1/4"	----
28110LF	3/4" x 3/8"	----
28111LF	3/4" x 1/2"	----
28112LF	1" x 1/4"	----
28113LF	1" x 3/8"	----
28114LF	1" x 1/2"	----

FACE BUSHING



LF110F

PART #	SIZE	LIST PRICE
28121LF	1/4" x 1/8"	----
28116LF	3/8" x 1/4"	----
28117LF	1/2" x 3/8"	----

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

CLOSE NIPPLE

LF112

PART #	SIZE	LIST PRICE
28131LF	1/8"	----
28132LF	1/4"	----
28133LF	3/8"	----
28134LF	1/2"	----

LONG NIPPLE

LF113

PART #	SIZE	LIST PRICE
28140LF	1/8" x 1-1/2"	----
28141LF	1/8" x 2"	----
28142LF	1/8" x 2-1/2"	----
28143LF	1/8" x 3"	----
28144LF	1/4" x 1-1/2"	----
28145LF	1/4" x 2"	----
28146LF	1/4" x 2-1/2"	----
28147LF	1/4" x 3"	----
28148LF	3/8" x 1-1/2"	----

HEX NIPPLE

LF23325X

LF122

PART #	SIZE	LIST PRICE
28211LF	1/8"	----
28212LF	1/4"	----
28213LF	3/8"	----
28214LF	1/2"	----
28215LF	3/4"	----
28216LF	1"	----

LONG HEX NIPPLE**REDUCING HEX NIPPLE**

LF123

PART #	SIZE	LIST PRICE
28220LF	1/4" x 1/8"	----
28221LF	3/8" x 1/8"	----
28222LF	3/8" x 1/4"	----
28223LF	1/2" x 1/8"	----
28224LF	1/2" x 3/8"	----

REDUCING COUPLING

LF119

PART #	SIZE	LIST PRICE
28181LF	1/4" x 1/8"	----
28182LF	3/8" x 1/8"	----
28183LF	3/8" x 1/4"	----
28180LF	1/2" x 1/8"	----
28184LF	1/2" x 1/4"	----

ADAPTER

LF120

PART #	SIZE	LIST PRICE
28190LF	1/8" x 1/8"	----
28191LF	1/4" x 1/8"	----
28192LF	1/4" x 1/4"	----
28198LF	3/8" x 1/8"	----
28193LF	3/8" x 1/4"	----
28194LF	3/8" x 3/8"	----
28199LF	1/2" x 1/4"	----
28195LF	1/2" x 3/8"	----
28196LF	1/2" x 1/2"	----
28208LF	3/4" x 1/2"	----

* Forged and Barstock shapes may be substituted for one another in Lead Free.

SHORT BARSTOCK* STREET ELBOW 90°

PART #	SIZE	LIST PRICE
28156SLF	1/8"	----
28157SLF	1/4"	----
28158SLF	3/8"	----
28159SLF	1/2"	----

BARSTOCK* ST ELBOW

LF116

PART #	SIZE	LIST PRICE
28156LF	1/8"	----
28157LF	1/4"	----
28158LF	3/8"	----
28159LF	1/2"	----

STREET ELBOW 90° FORGED*

PART #	SIZE	LIST PRICE
28165LF	1/8"	----
28166LF	1/4"	----
28167LF	3/8"	----
28168LF	1/2"	----

REDUCING STREET ELBOW FORGED*

PART #	SIZE	LIST PRICE
28261LF	1/4" x 1/8"	----
28262LF	1/4" x 3/8"	----
28264LF	3/8" x 1/2"	----

STREET ELBOW 45°



LF124

PART #	SIZE	LIST PRICE
28230LF	1/8"	----
28231LF	1/4"	----
28232LF	3/8"	----
28233LF	1/2"	----

STREET TEE BARSTOCK



LF127

PART #	SIZE	LIST PRICE
28245LF	1/8"	----
28246LF	1/4"	----
28247LF	3/8"	----
28248LF	1/2"	----

STREET TEE FORGED



PART #	SIZE	LIST PRICE
28253LF	1/8"	----
28254LF	1/4"	----
28255LF	3/8"	----

ELBOW BARSTOCK



PART #	SIZE	LIST PRICE
28266BLF	1/8"	----

ELBOW FORGED



PART #	SIZE	LIST PRICE
28266LF	1/8"	----
28267LF	1/4"	----
28268LF	3/8"	----

REDUCING ELBOW



PART #	SIZE	LIST PRICE
28273LF	1/4" x 1/8"	----
28272LF	3/8" x 1/8"	----
28275LF	3/8" x 1/4"	----

TEE BARSTOCK



LF131

PART #	SIZE	LIST PRICE
28281LF	1/8"	----
28282LF	1/4"	----
28283LF	3/8"	----

TEE FORGED



PART #	SIZE	LIST PRICE
28290LF	1/8"	----
28291LF	1/4"	----
28292LF	3/8"	----

PUSH-ON

MALE ADAPTER



PART #	HOSE I.D. X MALE NPTF	LIST PRICE
30200LF	1/4" x 1/8"	----
30201LF	1/4" x 1/4"	----
30203LF	3/8" x 1/4"	----
30204LF	3/8" x 3/8"	----
30206LF	1/2" x 3/8"	----
30207LF	1/2" x 1/2"	----

**SAE/JIC DUAL 45°/37°
FEMALE SWIVEL**



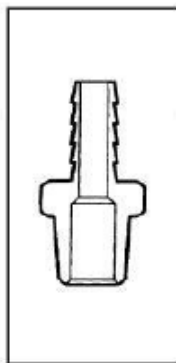
PART #	HOSE I.D. X FEMALE 45°/37°	LIST PRICE
30230LF	1/4" x 1/4"	----

LEAD FREE HOSE BARBS

LEAD FREE BRASS FITTINGS

BRASS HOSE BARBS LEAD FREE

- One piece, except swivels (nut and stem)
- Used with plastic tubing or rubber hose
- -40° to 200° F. temperature range
- Intended for use with hose clamp or crimp type ferrule
- Barbed edges provide positive connection
- Excellent vibration resistance
- Barb size is hose I.D.

**RIGID MALE ADAPTER**

LF29

PART #	HOSE I.D. X MALE NPTF	LIST PRICE
32001LF	1/8" x 1/8"	----
32027LF	1/8" x 1/4"	----
32002LF	3/16" x 1/8"	----
32003LF	3/16" x 1/4"	----
32004LF	1/4" x 1/8"	----
32005LF	1/4" x 1/4"	----
32006LF	1/4" x 3/8"	----
32007LF	1/4" x 1/2"	----
32954LF	1/4" x 3/4"	----
32008LF	5/16" x 1/8"	----
32009LF	5/16" x 1/4"	----
32010LF	5/16" x 3/8"	----
32011LF	3/8" x 1/8"	----
32012LF	3/8" x 1/4"	----
32013LF	3/8" x 3/8"	----
32014LF	3/8" x 1/2"	----
32026LF	3/8" x 3/4"	----
32015LF	1/2" x 1/4"	----
32016LF	1/2" x 3/8"	----
32017LF	1/2" x 1/2"	----
32018LF	1/2" x 3/4"	----
32019LF	5/8" x 3/8"	----
32020LF	5/8" x 1/2"	----
32021LF	5/8" x 3/4"	----
32306LF	3/4" x 3/8"	----
32022LF	3/4" x 1/2"	----
32023LF	3/4" x 3/4"	----
32024LF	1" x 3/4"	----
32025LF	1" x 1"	----

FORGED HOSE BARB 90° ELBOW

LF29EBS

PART #	HOSE I.D. X MALE NPTF	LIST PRICE
32038LF	1/4" x 1/8"	----
32039LF	1/4" x 1/4"	----
32309LF	1/4" x 3/8"	----
32036LF	5/16" x 1/8"	----
32040LF	5/16" x 1/4"	----
32046LF	3/8" x 1/8"	----
32041LF	3/8" x 1/4"	----
32042LF	3/8" x 3/8"	----
32047LF	3/8" x 1/2"	----
32048LF	1/2" x 1/4"	----
32043LF	1/2" x 3/8"	----
32311LF	1/2" x 1/2"	----
32313LF	3/4" x 1/2"	----

MENDER/ SPLICER

PART #	HOSE I.D. X HOSE I.D.	LIST PRICE
32091LF	1/8"	----
32092LF	3/16"	----
32093LF	1/4"	----
32094LF	5/16"	----
32095LF	3/8"	----
32096LF	1/2"	----
32097LF	5/8"	----
32098LF	3/4"	----

RIGID FEMALE ADAPTER

LF29F

PART #	HOSE I.D. X FEMALE NPTF	LIST PRICE
32050LF	1/8" x 1/8"	----
32317LF	1/8" x 1/4"	----
32051LF	3/16" x 1/8"	----
32062LF	3/16" x 1/4"	----
32052LF	1/4" x 1/8"	----
32053LF	1/4" x 1/4"	----
32054LF	1/4" x 3/8"	----
32441LF	1/4" x 1/2"	----
32055LF	5/16" x 1/8"	----
32056LF	5/16" x 1/4"	----
32318LF	5/16" x 3/8"	----
32057LF	3/8" x 1/8"	----
32058LF	3/8" x 1/4"	----
32059LF	3/8" x 3/8"	----
32063LF	3/8" x 1/2"	----
32064LF	1/2" x 1/4"	----
32060LF	1/2" x 3/8"	----
32061LF	1/2" x 1/2"	----
32065LF	3/4" x 3/4"	----

HOSE BARB TEES

PART #	HOSE BARB SIZE	LIST PRICE
32365LF	1/4"	----
32366LF	5/16"	----
32126LF	3/8"	----

FEMALE 45° FLARE SWIVEL

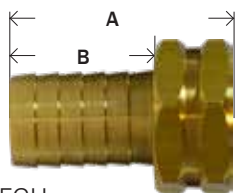
PART #		LIST PRICE
32101LF	1/4" x 1/4"	----
32105LF	3/8" x 3/8"	----

LEAD FREE MINI BALL VALVES BARB X BARB

PART #	H.B. X H.B.	LIST PRICE
944142LF	1/4"	----

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

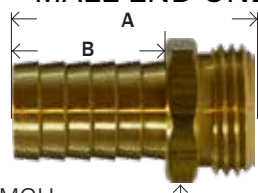


LF29FGH

• WASHER INCLUDED

PART #	HOSE BARB X FGH	LIST PRICE
30031LF	3/8" x 3/4"	----
30032LF	1/2" x 3/4"	----
30033LF	5/8" x 3/4"	----

MALE END ONLY



LF29MGH

PART #	HOSE BARB X MGH	LIST PRICE
30039LF	3/8" x 3/4"	----
30040LF	1/2" x 3/4"	----
30041LF	5/8" x 3/4"	----
30042LF	3/4" x 3/4"	----

GARDEN HOSE COUPLING



• WASHER INCLUDED

PART #	HOSE BARB	LIST PRICE
30025LF	3/8"	----
30027LF	1/2"	----
30028LF	5/8"	----

SWIVEL - FGH X FGH



LFS3

• WASHER INCLUDED

PART #	FGH X FGH	LIST PRICE
30011LF	3/4" x 3/4"	----

SWIVEL - FGH X FEMALE PIPE



LFS1
LFS2

• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	LIST PRICE
30001LF	3/4" x 1/2"	----
30006LF	3/4" x 3/4"	----

RIGID - FGH X FEMALE PIPE



• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	LIST PRICE
30016LF	3/4" x 1/8"	----
30078LF	3/4" x 1/2"	----
30083LF	3/4" x 3/4"	----

SWIVEL - FGH X MALE PIPE



• WASHER INCLUDED

PART #	FGH X MALE NPTF	LIST PRICE
30047LF	3/4" x 1/4"	----
30048LF	3/4" x 3/8"	----
30049LF	3/4" x 1/2"	----

RIGID - FGH X MALE PIPE



• WASHER INCLUDED

PART #	FGH X FEMALE NPTF	LIST PRICE
30088LF	3/4" x 1/2" (1/2" SWT)	----

RIGID - MGH X MGH



LF85GHT

RIGID - MGH X FEMALE PIPE



LF110GH-124

PART #	MGH X FEMALE NPTF	LIST PRICE
30066LF	3/4" x 1/4"	----
30067LF	3/4" x 3/8"	----
30068LF	3/4" x 1/2"	----
30073LF	3/4" x 3/4"	----

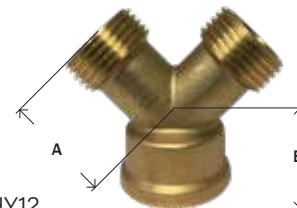
RIGID - MGH X MALE PIPE



LF68GH1216

PART #	MGH X MALE NPTF	LIST PRICE
30052LF	3/4" x 1/4"	----
30053LF	3/4" x 3/8"	----
30058LF	3/4" x 1/2"	----
30058SLF	3/4" x 1/2" (1/2" SWT)	----
30063LF	3/4" x 3/4" x 1/2"	----

CAST BRASS HOSE - "Y" CONNECTOR



LFHY12

PART #	SIZE FGH X MGH(2)	LIST PRICE
30140LF	3/4"	----

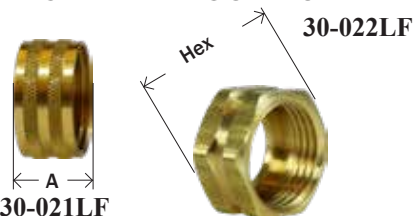
GARDEN HOSE CAP



LFHC-12W

PART #	SIZE	LIST PRICE
30103LF	3/4" Die Cast	----

GARDEN HOSE NUT



PART #	SIZE	LIST PRICE
30021LF	Knurled	----

LEAD FREE FLARE

LEAD FREE BRASS FITTINGS

45° s.a.e. brass flare fittings

- Two pieces construction – nut and body
- Use with copper, brass, aluminum, or steel tubing
- -40° to +250° F. temperature range
- Resists mechanical pullout
- Easy to disassemble and can be reassembled many times, with no effect on the seal
- Primary uses: fuel equipment, plumbing, gases, refrigeration, and vacuum lines
- Meet functional requirements for SAE, ASME and ASA codes for pressure piping



TO ASSEMBLE:

- 1 Cut smooth, square end on tubing
- 2 Slide nut onto tube - threads facing end
- 3 Flare end of tube
- 4 Thread nut to body until snug, then

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread Size	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	11/16-14	1-1/4-12	1 3/8-12

SHORT ROD NUT

LF41S
LF41XS



PART #	THREAD SIZE UNF	LIST PRICE
10013LF	1/8"	----
10014LF	3/16"	----
10015LF	1/4"	----
10016LF	5/16"	----
10017LF	3/8"	----
10018LF	7/16"	----
10019LF	1/2"	----
10020LF	5/8"	----
10021LF	3/4"	----

SHORT FORGED NUT



PART #	THREAD SIZE UNF	LIST PRICE
10039LF	1/4"	----
10041LF	3/8"	----
10052LF	3/8" x 1/4"	----
10042LF	1/2"	----
10054LF	1/2" x 3/8"	----
10043LF	5/8"	----
10056LF	5/8" x 1/2"	----
10044LF	3/4"	----

UNION

LF242



PART #	THREAD SIZE UNF	LIST PRICE
10104LF	1/8"	----
10105LF	3/16"	----
10106LF	1/4"	----
10107LF	5/16"	----
10108LF	3/8"	----
10118LF	3/8" x 1/4"	----
10109LF	1/2"	----
10120LF	1/2" x 1/4"	----
10121LF	1/2" x 3/8"	----
10110LF	5/8"	----
10122LF	5/8" x 3/8"	----
10123LF	5/8" x 1/2"	----
10111LF	3/4"	----

CAP

LF40



PART #	THREAD SIZE UNF	LIST PRICE
10075LF	1/4"	----
10076LF	5/16"	----
10077LF	3/8"	----
10078LF	1/2"	----
10079LF	5/8"	----
10080LF	3/4"	----

UNION TEE



PART #	SIZE (1 X 2 X 3)	LIST PRICE
10157LF	1/8"	----
10158LF	3/16"	----
10159LF	1/4"	----
10160LF	5/16"	----
10161LF	3/8"	----
10162LF	1/2"	----

REDUCING UNION TEE

PART #	SIZE (1 X 2 X 3)	LIST
10174LF	3/8" x 3/8" x 1/4"	----
10175LF	3/8" x 3/8" x 1/2"	----
10181LF	1/2" x 1/2" x 3/8"	----
10182LF	1/2" x 1/2" x 5/8"	----
10189LF	5/8" x 5/8" x 1/2"	----

PLUG

LF39



PART #	THREAD SIZE UNF	LIST PRICE
10064LF	1/4"	----
10066LF	3/8"	----
10067LF	1/2"	----
10068LF	5/8"	----

FEMALE ADAPTER


LF46

PART #	MALE FLARE X FEMALE NPTF	LIST PRICE
10227LF	3/16" x 1/8"	----
10228LF	1/4" x 1/8"	----
10229LF	1/4" x 1/4"	----
10230LF	1/4" x 3/8"	----
10231LF	1/4" x 1/2"	----
10232LF	5/16" x 1/8"	----
10233LF	5/16" x 1/4"	----
10234LF	3/8" x 1/8"	----
10235LF	3/8" x 1/4"	----
10236LF	3/8" x 3/8"	----
10237LF	3/8" x 1/2"	----
10238LF	3/8" x 3/4"	----
10239LF	1/2" x 1/4"	----
10240LF	1/2" x 3/8"	----
10241LF	1/2" x 1/2"	----
10242LF	1/2" x 3/4"	----
10243LF	5/8" x 3/8"	----
10244LF	5/8" x 1/2"	----
10245LF	5/8" x 3/4"	----
10247LF	3/4" x 3/4"	----

MALE BRANCH TEE


PART #	SIZE	LIST PRICE
10204LF	1/4" x 1/8"	----
10205LF	1/4" x 1/4"	----
10206LF	1/4" x 3/8"	----
10210LF	3/8" x 1/4"	----
10211LF	3/8" x 3/8"	----
10212LF	3/8" x 1/2"	----
10214LF	1/2" x 3/8"	----
10215LF	1/2" x 1/2"	----

FORGED SWIVEL


LF700

PART #	FEMALE FLARE UNF	LIST PRICE
10481LF	1/4"	----
10482LF	5/16"	----
10483LF	3/8"	----
10484LF	1/2"	----
10485LF	5/8"	----
10487LF	3/8" x 1/4"	----
10488LF	1/2" x 3/8"	----

MALE ADAPTER

 LF48
 LF248

PART #	MALE FLARE X MALE NPTF	LIST
10253LF	1/8" x 1/8"	----
10254LF	3/16" x 1/8"	----
10252LF	3/16" x 1/4"	----
10255LF	1/4" x 1/8"	----
10256LF	1/4" x 1/4"	----
10256EHLF	1/4" x 1/4"	----
10257LF	1/4" x 3/8"	----
10258LF	1/4" x 1/2"	----
10259LF	5/16" x 1/8"	----
10260LF	5/16" x 1/4"	----
10261LF	5/16" x 3/8"	----
10251LF	5/16" x 1/2"	----
10262LF	3/8" x 1/8"	----
10263LF	3/8" x 1/4"	----
10264LF	3/8" x 3/8"	----
10265LF	3/8" x 1/2"	----
10266LF	3/8" x 3/4"	----
10267LF	1/2" x 1/4"	----
10268LF	1/2" x 3/8"	----
10269LF	1/2" x 1/2"	----
10270LF	1/2" x 3/4"	----
10272LF	5/8" x 3/8"	----
10273LF	5/8" x 1/2"	----
10274LF	5/8" x 3/4"	----
10275LF	3/4" x 1/2"	----
10276LF	3/4" x 3/4"	----
10278LF	7/8" x 3/4"	----

UNION ELBOW

 BS
 LF255B

PART #	FLARE X FLARE	LIST PRICE
10406LF	1/4"	----
10407LF	3/8"	----
10409LF	1/2"	----
10419LF	1/2" x 3/8"	----

FLARE X FIP TEE


PART #	FLARE X FLARE X FE PIPE	LIST PRICE
10434LF	1/2" x 1/2" x 1/2"	----

90° MALE ELBOW

 LF249B
 BS

FORGED ELBOW

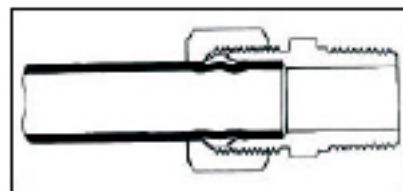
PART #	FLARE X MALE PIPE	LIST PRICE
10284LF	3/16" x 1/8"	----
10286LF	1/4" x 1/8"	----
10287LF	1/4" x 1/4"	----
10288LF	1/4" x 3/8"	----
10289LF	1/4" x 1/2"	----
10290LF	5/16" x 1/8"	----
10291LF	5/16" x 1/4"	----
10293LF	3/8" x 1/8"	----
10294LF	3/8" x 1/4"	----
10295LF	3/8" x 3/8"	----
10296LF	3/8" x 1/2"	----
10297LF	3/8" x 3/4"	----
10298LF	1/2" x 1/4"	----
10299LF	1/2" x 3/8"	----
10300LF	1/2" x 1/2"	----
10301LF	1/2" x 3/4"	----
10302LF	5/8" x 3/8"	----
10303LF	5/8" x 1/2"	----
10304LF	5/8" x 3/4"	----
10305LF	3/4" x 1/2"	----
10306LF	3/4" x 3/4"	----

FEMALE ELBOW


PART #	FLARE X FE- MALE PIPE	LIST PRICE
10313LF	1/4" x 1/8"	----
10314LF	1/4" x 1/4"	----
10319LF	3/8" x 1/4"	----
10320LF	3/8" x 3/8"	----
10321LF	3/8" x 1/2"	----
10322LF	3/8" x 3/4"	----
10324LF	1/2" x 3/8"	----
10325LF	1/2" x 1/2"	----
10326LF	1/2" x 3/4"	----
10328LF	5/8" x 1/2"	----
10329LF	5/8" x 3/4"	----
10331LF	3/4" x 3/4"	----

LEAD FREE COMPRESSION**LEAD FREE BRASS FITTINGS****BRASS COMPRESSION FITTINGS - LEAD FREE**

- Three piece construction- nut, sleeve (or ferrule) and body
- Use with copper, aluminum, or plastic tubing (plastic requires 60P sleeve and 61P insert)
- -40° to +250° F. temperature range
- Easy to disassemble, no flaring tool required
- Primary uses: water, gasoline, oil, and vacuum lines

**TO ASSEMBLE:**

- 1 Cut smooth, square end on tubing
- 2 Slide nut, then sleeve onto tube.
Threads must face end
- 3 Insert tube into fitting
- 4 Thread nut onto fitting until snug, then as follows:

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	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

BRASS COMPRESSION FITTINGS**BRASS SLEEVE**

LF260

• FERRULES

PART #	SIZE	LIST PRICE
18001LF	1/8"	----
18002LF	3/16"	----
18003LF	1/4"	----
18004LF	5/16"	----
18005LF	3/8"	----
18006LF	7/16"	----
18007LF	1/2"	----
18008LF	5/8"	----
18009LF	3/4"	----
18010LF	7/8"	----

60 260

DELTRIN SLEEVE

PART #	SIZE	LIST PRICE
18015	1/4"	----
18016	5/16"	----
18017	3/8"	----

60-P

BRASS NUT

LF261

PART #	SIZE	LIST PRICE
18033LF	1/8"	----
18034LF	3/16"	----
18035LF	1/4"	----
18036LF	5/16"	----
18037LF	3/8"	----
18038LF	7/16"	----
18039LF	1/2"	----
18040LF	5/8"	----
18041LF	3/4"	----
18042LF	7/8"	----

BRASS INSERT**• SLEEVE**

PART #	SIZE	LIST PRICE
22008LF	1/8"	----
22009LF	3/16"	----
22010LF	1/4"	----
22011LF	5/16"	----
22012LF	3/8"	----

**BRASS NUT W/
CAPTIVE SLEEVE**

LF611X6

PART #	SIZE	LIST PRICE
26001LF	1/8"	----
26002LF	3/16"	----
26003LF	1/4"	----
26004LF	5/16"	----
26005LF	3/8"	----
26007LF	1/2"	----
26008LF	5/8"	----
26015LF	3/4"	----

CAP

PART #	SIZE	LIST PRICE
18047LF	1/4"	----
18046LF	5/16"	----
18048LF	3/8"	----
18049LF	1/2"	----
18050LF	5/8"	----

61-CC N5CT

UNION



LF262

PART #	SIZE	LIST PRICE
18062LF	1/8"	----
18063LF	3/16"	----
18064LF	1/4"	----
18065LF	5/16"	----
18066LF	3/8"	----
18067LF	7/16"	----
18068LF	1/2"	----
18069LF	5/8"	----
18070LF	3/4"	----
18071LF	7/8"	----

M-62

REDUCING UNION



LF62R

PART #	SIZE	LIST PRICE
18076LF	1/4" x 1/8"	----
18077LF	1/4" x 3/16"	----
18078LF	5/16" x 1/4"	----
18079LF	3/8" x 1/4"	----
18080LF	3/8" x 5/16"	----
18081LF	1/2" x 3/8"	----
18082LF	5/8" x 3/8"	----

62-R

TANK UNION



LF62T

• DRILLED THROUGH

PART #	SIZE	LIST PRICE
18066DLF	3/8"	----
18068DLF	1/2"	----

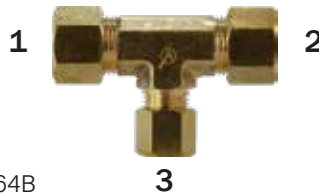
TEE



LF264B

PART #	SIZE	LIST PRICE
18101LF	1/8"	----
18102LF	3/16"	----
18103LF	1/4"	----
18104LF	5/16"	----
18105LF	3/8"	----
18106LF	1/2"	----
18107LF	5/8"	----
18109LF	7/8"	----

REDUCING TEE



LF264B

PART #	SIZE (1 X 2 X 3)	LIST PRICE
18114LF	1/4" x 1/4" x 1/8"	----
18110LF	1/4" x 1/4" x 3/8"	----

64-R

ELBOW



LF265

PART #	SIZE	LIST PRICE
18122LF	1/8"	----
18123LF	3/16"	----
18124LF	1/4"	----
18125LF	5/16"	----
18126LF	3/8"	----
18127LF	1/2"	----
18128LF	5/8"	----
18129LF	3/4"	----
18130LF	7/8"	----
18135LF	3/8" x 1/4"	----
18136LF	1/2" x 3/8"	----

65 BSE2 165C 265C

FEMALE COUPLING



LF66

LF266

PART #	COMP. X FEMALE NPT	LIST PRICE
18142LF	1/8" x 1/8"	----
18143LF	3/16" x 1/8"	----
18144LF	3/16" x 1/4"	----
18145LF	1/4" x 1/8"	----
18146LF	1/4" x 1/4"	----
18147LF	1/4" x 3/8"	----
18148LF	1/4" x 1/2"	----
18149LF	5/16" x 1/8"	----
18150LF	5/16" x 1/4"	----
18151LF	5/16" x 3/8"	----
18152LF	3/8" x 1/8"	----
18153LF	3/8" x 1/4"	----
18154LF	3/8" x 3/8"	----
18155LF	3/8" x 1/2"	----
18156LF	3/8" x 3/4"	----
18157LF	1/2" x 1/4"	----
18158LF	1/2" x 3/8"	----
18159LF	1/2" x 1/2"	----
18160LF	1/2" x 3/4"	----
18161LF	5/8" x 3/8"	----
18162LF	5/8" x 1/2"	----
18163LF	5/8" x 3/4"	----
18164LF	3/4" x 1/2"	----
18165LF	3/4" x 3/4"	----
18167LF	7/8" x 1/2"	----

66

TANK COUPLING



• DRILLED THROUGH

COMP X FIP

PART #	SIZE	LIST PRICE
18154DLF	3/8" x 3/8"	----
18155DLF	3/8" x 1/2"	----
18158DLF	1/2" x 3/8"	----
18159DLF	1/2" x 1/2"	----

COMP X SWEAT ADAPTER



LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

MALE ADAPTER

LF68

COMP X MIP

PART #	SIZE	LIST PRICE
18176LF	1/8" x 1/8"	----
18177LF	3/16" x 1/8"	----
18178LF	3/16" x 1/4"	----
18179LF	1/4" x 1/8"	----
18180LF	1/4" x 1/4"	----
18181LF	1/4" x 3/8"	----
18182LF	1/4" x 1/2"	----
18183LF	5/16" x 1/8"	----
18184LF	5/16" x 1/4"	----
18185LF	5/16" x 3/8"	----
18186LF	5/16" x 1/2"	----
18187LF	3/8" x 1/8"	----
18188LF	3/8" x 1/4"	----
18189LF	3/8" x 3/8"	----
18190LF	3/8" x 1/2"	----
18191LF	3/8" x 3/4"	----
18192LF	7/16" x 1/4"	----
18204LF	7/16" x 3/8"	----
18193LF	1/2" x 1/4"	----
18194LF	1/2" x 3/8"	----
18195LF	1/2" x 1/2"	----
18196LF	1/2" x 3/4"	----
18197LF	5/8" x 3/8"	----
18198LF	5/8" x 1/2"	----
18199LF	5/8" x 3/4"	----
18200LF	3/4" x 1/2"	----
18201LF	3/4" x 3/4"	----
18202LF	7/8" x 1/2"	----
18203LF	7/8" x 3/4"	----
18205LF	7/8" x 1"	----

THE MAN WHO HAS NO
INNER-LIFE IS A SLAVE TO
HIS SURROUNDINGS.

- HENRI FREDERIC AMIEL

ELBOWLF269B
LF69F**COMP X MIP**

PART #	SIZE	LIST PRICE
18220LF	1/8" x 1/8"	----
18221LF	3/16" x 1/8"	----
18223LF	3/16" x 1/4"	----
18224LF	1/4" x 1/8"	----
18225LF	1/4" x 1/4"	----
18226LF	1/4" x 3/8"	----
18227LF	1/4" x 1/2"	----
18228LF	5/16" x 1/8"	----
18229LF	5/16" x 1/4"	----
18230LF	5/16" x 3/8"	----
18232LF	3/8" x 1/8"	----
18233LF	3/8" x 1/4"	----
18234LF	3/8" x 3/8"	----
18235LF	3/8" x 1/2"	----
18248LF	3/8" x 3/4"	----
18247LF	7/16" x 1/4"	----
18236LF	1/2" x 1/4"	----
18237LF	1/2" x 3/8"	----
18238LF	1/2" x 1/2"	----
18239LF	1/2" x 3/4"	----
18240LF	5/8" x 3/8"	----
18241LF	5/8" x 1/2"	----
18242LF	5/8" x 3/4"	----
18243LF	3/4" x 1/2"	----

TANK CONNECTOR

LF68T

• DRILLED THROUGH

COMP X MIP

PART #	SIZE	LIST PRICE
18177TLF	3/16" x 1/8"	----
18208LF	1/4" x 1/8"	----
18209LF	1/4" x 1/4"	----
18210LF	3/8" x 1/4"	----
18211LF	3/8" x 3/8"	----
18212LF	3/8" x 1/2"	----
18213LF	1/2" x 3/8"	----

69 269C BSE1 169C

**FEMALE ELBOW****COMP X FIP**

PART #	SIZE	LIST PRICE
18251LF	1/8" x 1/8"	----
18252LF	3/16" x 1/8"	----
18253LF	1/4" x 1/8"	----
18254LF	1/4" x 1/4"	----
18267LF	1/4" x 3/8"	----
18268LF	1/4" x 1/2"	----
18255LF	5/16" x 1/8"	----
18256LF	5/16" x 1/4"	----
18257LF	3/8" x 1/8"	----
18258LF	3/8" x 1/4"	----
18259LF	3/8" x 3/8"	----
18260LF	3/8" x 1/2"	----
18250LF	3/8" x 3/4"	----
18262LF	1/2" x 3/8"	----
18263LF	1/2" x 1/2"	----
18269LF	5/8" x 3/8"	----

45° ELBOW**COMP X MIP**

PART #	SIZE	LIST PRICE
18330LF	1/4" x 1/8"	----
18336LF	1/4" x 1/4"	----
18333LF	3/8" x 1/4"	----
18338LF	3/8" x 3/8"	----
18334LF	1/2" x 3/8"	----

MALE RUN TEE

LF272

COMPRESSION X MIP

PART #	SIZE	LIST PRICE
18273LF	3/16" x 1/8"	----
18274LF	1/4" x 1/8"	----
18275LF	1/4" x 1/4"	----
18276LF	5/16" x 1/8"	----
18277LF	5/16" x 1/4"	----
18279LF	3/8" x 1/4"	----
18280LF	3/8" x 3/8"	----

MALE BRANCH TEE



COMP X MIP

PART #	SIZE	LIST PRICE
18289LF	1/8" x 1/8"	----
18290LF	3/16" x 1/8"	----
18291LF	1/4" x 1/8"	----
18292LF	1/4" x 1/4"	----
18293LF	5/16" x 1/8"	----
18294LF	5/16" x 1/4"	----
18295LF	3/8" x 1/8"	----
18296LF	3/8" x 1/4"	----
18297LF	3/8" x 3/8"	----
18299LF	1/2" x 3/8"	----
18300LF	1/2" x 1/2"	----

TEE



COMP X FIP X MIP

TEE



FIP X MIP X COMP

PART #	SIZE	LIST
18315LF	1/4" x 1/4" x 1/4"	----

FEMALE BRANCH TEE



COMP X FIP

PART #	SIZE	LIST PRICE
18325LF	3/8" x 1/8"	----
18322LF	3/8" x 1/4"	----
18323LF	3/8" x 3/8"	----

FEMALE ADAPTER



COMPRESSION X FEMALE FLARE

MALE ADAPTER



COMPRESSION X MALE FLARE

FEMALE ADAPTER (GASKET)



FEMALE COMPRESSION X COM-

PART #	SIZE	LIST PRICE
18500LF	3/8" x 1/4"	----

FEMALE ADAPTER (GASKET)



FEMALE FLARE X COMPRESSION

FEMALE ADAPTER (GASKET)

LF124GH
LF125GH



FE GARDEN HOSE X COMPRES-

PART #	SIZE	LIST PRICE
30050LF	3/4" x 1/4"	----

SWIVEL ELBOW



LF69GHS-162

COMP X FE GARDEN HOSE

• NO NUT & SLEEVE

LEAD FREE ADD-A-TEE
COMP X COMP X SWIVEL FE
COMPRESSION

- For adding a water line
- Ice makers, Coffee makers and instant hot water systems



• NSF Approved

PART #	MALE & FEM. COMPRESSION X MALE COMP	LIST
935044LF	3/8 x 1/4	----
935045LF	3/8 x 3/8	----

MY MISSION IN LIFE IS
NOT MERELY TO SURVIVE,
BUT TO THRIVE; AND TO
DO SO WITH SOME PAS-
SION, SOME COMPASSION,
SOME HUMOR, AND SOME
STYLE.

- MAYA ANGELOU

N/P COMPRESSION/ ICE MAKER KITS/ LEAD FREE BRASS FITTINGS

LEAD FREE BRASS FITTINGS

NICKEL PLATED COMPRESSION FITTINGS

NUT



PART #	SIZE	LIST PRICE
18054LF	1/4"	----
18055LF	3/8"	----
18056LF	1/2"	----
18057LF	5/8"	----

UNION



PART #	SIZE	LIST PRICE
31066LF	3/8"	----

REDUCING UNION



PART #	SIZE	LIST PRICE
31079LF	3/8" x 1/4"	----
31081LF	1/2" x 3/8"	----
31082LF	5/8" x 3/8"	----
31083LF	5/8" x 1/2"	----

TEE



PART #	SIZE	LIST PRICE
31105LF	3/8"	----

ELBOW



PART #	SIZE	LIST PRICE
31126LF	3/8"	----

REDUCING ELBOW

PART #	SIZE	LIST PRICE
31137LF	5/8" x 3/8"	----

FEMALE COUPLING



PART #	SIZE	LIST PRICE
31154LF	3/8" x 3/8"	----
31155LF	3/8" x 1/2"	----
31158LF	1/2" x 3/8"	----

COMP X SWEAT ADAPTER



CONNECTOR



PART #	SIZE	LIST PRICE
31188LF	3/8" x 1/4"	----
31189LF	3/8" x 3/8"	----
31190LF	3/8" x 1/2"	----
31194LF	1/2" x 3/8"	----
31195LF	1/2" x 1/2"	----

ELBOW



PART #	SIZE	LIST PRICE
31233LF	3/8" x 1/4"	----
31234LF	3/8" x 3/8"	----
31235LF	3/8" x 1/2"	----
31237LF	1/2" x 3/8"	----

ELBOW



Ice Maker Kits

ICE MAKER WATER SUPPLY



- Lead free fittings
- Bag with Header Card
- 25' 1/4" O.D. Polyethylene Tubing - 979215
- Self Piercing Saddle Valve
- 1/4" O.D. Compression x 1/8" MIP Elbow & Adapter
- 1/4" O.D. Compression Union
- 1/4" Inserts & Sleeves

PART #	DESCRIPTION	LIST
43265LF	Kit	----
979215	1/4" OD, 25' Tube	----

ICE-MAKER WATER SUPPLY

- Economy
- 25' Polyethylene Tubing
- Self Piercing Saddle Valve
- 1/4" Compression Union
- 1/4" Inserts & Sleeves



PART #	LIST PRICE
43266LF	----

LEAD FREE NEEDLE VALVES

LEAD FREE BRASS FITTINGS

COMP X COMP



PART #	COMP X COMP	LIST PRICE
46021LF	1/4"	----
46022LF	5/16"	----
46023LF	3/8"	----

COMP X MALE PIPE



PART #	COMP X MALE PIPE	LIST PRICE
46002LF	1/4" x 1/8"	----
46003LF	1/4" x 1/4"	----
46005LF	3/8" x 1/4"	----

COMP X MALE PIPE-ANGLE



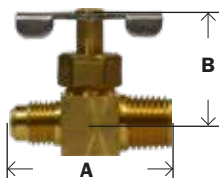
PART #	COMP X MALE PIPE	LIST PRICE
46011LF	1/4" x 1/8"	----
46012LF	1/4" x 1/4"	----
46013LF	5/16" x 1/8"	----
46015LF	3/8" x 1/8"	----
46016LF	3/8" x 1/4"	----

FLARE X FLARE



PART #	COMP X COMP	LIST PRICE
46045LF	1/4"	----
46046LF	3/8"	----

FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	LIST PRICE
46029LF	1/4" x 1/4"	----

FEMALE PIPE X FEMALE PIPE



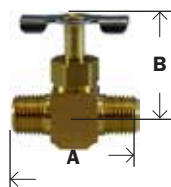
PART #	FEMALE X FEMALE	LIST PRICE
46055LF	1/8" x 1/8"	----
46056LF	1/4" x 1/4"	----

MALE X FEMALE PIPE



PART #	FEMALE X MALE	LIST PRICE
46060LF	1/8" x 1/8"	----
46061LF	1/4" x 1/4"	----

MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	LIST PRICE
46051LF	1/4"	----

VALVE WITH TEE



PART #	SIZE	LIST PRICE
46175LF	1/4" x 3/8"	----
46177LF	1/4" x 5/8"	----

VALVE WITH SADDLE FITS up to 3/4" pipe



PART #	SIZE	LIST PRICE
46091LF	1/4"	----
46092LF	5/16"	----

BRASS SADDLE



SELF PIERCING SADDLE VALVES

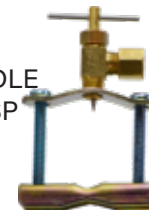
- 1/4 Tube O.D.

SELF PIERCING NEEDLE VALVE KIT #M-104-VSP

- INDIVIDUALLY BAGGED WITH NEEDLE VALVE
- SADDLE CLAMP
- 2 NUTS
- 2 BOLTS & WASHERS

Has brass sleeve for copper tube installation & delrin

sleeve & brass insert for plastic tube installation.



PART #	LIST PRICE
46090ALF	Solid Pin ----

SUPPLY STOPS/ SS SUPPLY CONNECTORS

LEAD FREE BRASS FITTINGS

SUPPLY STOPS - 1/4 TURN

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

**ANGLE STOPS**

PART #	X 3/8 COMPRESSION	LIST PRICE
746436	LF 3/8 Female Iron Pipe	----
746437	LF 1/2 Nominal Pex x 1/4 Comp.	----
746438	LF 1/2 Nominal Pex	----
746446	LF 1/2 Female Iron Pipe	----
746456	LF 5/8 Compression	----
746457	LF 5/8 Compression Contractor Pack bagged less 3/8" Nut & Ferrule	----

**STRAIGHT STOPS**

PART #	X 3/8 COMPRESSION	LIST PRICE
746506	LF 3/8 Compression	----
746536	LF 3/8 Female Iron Pipe	----
746537	LF 1/2 Nominal Pex x 1/4 Comp.	----
746538	LF 1/2 Nominal Pex	----
746546	LF 1/2 Female Iron Pipe	----
746556	LF 5/8 Compression	----
746566	LF 1/2 Nominal Sweat	----

**3 WAY STOPS**

PART #	DESCRIPTION	LIST PRICE
746439	LF 5/8 Compression x 3/8 Compression x 1/4 Compression	----

LEAD FREE

AB1953/S.152

COMPLIANT

Meets S.3874/ Public Law No. 111-380
Reduction of Lead in Drinking Water Act

CONNECTORS

- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LAVATORY

3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	LIST PRICE
922012	12"	----
922016	16"	----
922020	20"	----
922030	30"	----
922036	36"	----



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

922112	12"	----
922116	16"	----
922120	20"	----
922130	30"	----
922136	36"	----



1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

922412	12"	----
922416	16"	----
922420	20"	----
922430	30"	----
922436	36"	----

BALLCOCK

3/8 COMPRESSION X 7/8 BALLCOCK

923209	9"	----
923212	12"	----
923216	16"	----
923220	20"	----



1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

923509	9"	----
923512	16"	----
923520	20"	----

SS SUPPLY CONNECTORS

LEAD FREE BRASS FITTINGS

- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LEAD FREE
AB1953/S.152
Compliant

Meets S.3874/ Public Law No. 111-380
Reduction of Lead in Drinking Water

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

ICE MAKER



1/4 COMPRESSION X 1/4 COMPRESSION

PART #	LENGTH	LIST PRICE
923112	12"	----
923124	24"	----
923136	36"	
923148	48"	
923161	60"	
923196	96"	----

DISHWASHER

3/8 COMPRESSION X 3/8 COMPRESSION

922009	9"	
922012	12"	
922024	24"	
922030	30"	
922036	36"	
922048	48"	----
922060	60"	----
922072	72"	----
922096	96"	----



3/8 COMPRESSION X 3/8 MALE IRON PIPE ELBOW

PART #	L	LIST PRICE
923648	48"	----
923660	60"	----
923672	72"	----
923684	84"	----



3/8 COMPRESSION X 3/4 FEMALE GARDEN HOSE ELBOW

924248	48"	----
924260	60"	----
924272	72"	----
924284	84"	----
924297	120"	----

Act

WASHING MACHINE



3/4 FEMALE GARDEN HOSE X 3/4 FEMALE GARDEN HOSE

923936	36"	----
923948	48"	----
923960	60"	----
923972	72"	----

WATER HEATER



3/8 COMPRESSION X 3/4 FEMALE IRON PIPE

PART #	L	LIST PRICE
922712	12"	----
922718	18"	----
922724	24"	----



7/8 COMPRESSION X 3/4 FEMALE IRON PIPE

922812	12"	----
922818	18"	----
922824	24"	----

3/4 MALE IRON PIPE X 3/4 FEMALE IRON PIPE

922912	12"	----
922918	18"	----
922924	24"	----



3/4 FEMALE IRON PIPE X 3/4 FEMALE IRON PIPE

924115	12"	----
924118	18"	----
924124	24"	----

PVC SUPPLY CONNECTORS

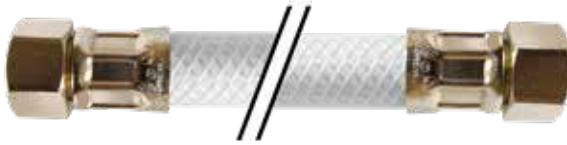
LEAD FREE BRASS FITTINGS

- Reinforced Flexible PVC
- Heavy Duty Brass Inserts
- Precision 12 Point Crimp

LEAD FREE AB1953/S.152 Compliant

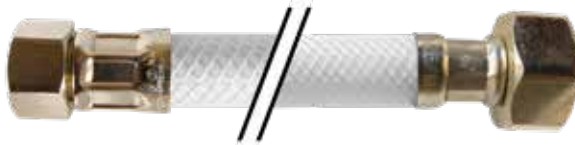
Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

LAVATORY



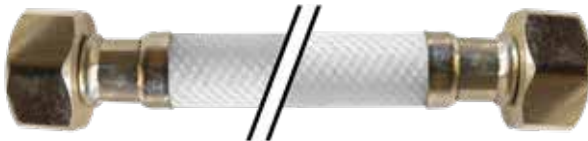
3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	LIST PRICE
920012	12"	
920016	16"	
920020	20"	
920030	30"	
920036	36"	



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

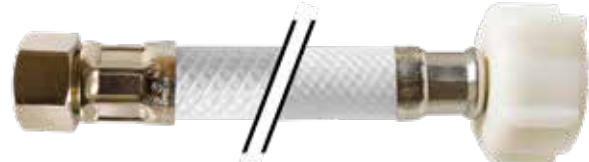
920112	12"	
920116	16"	
920120	20"	
920130	30"	
920136	36"	



1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

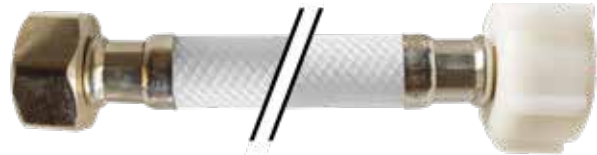
920412	12"	
920416	16"	
920420	20"	
920430	30"	
920436	36"	
920448	48"	

BALLCOCK



3/8 COMPRESSION X 7/8 BALLCOCK

921209	9"	
921212	12"	
921216	16"	
921220	20"	



1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

921509	9"	
921512	12"	
921516	16"	
921520	20"	

YOUR WORK IS GOING TO FILL A LARGE PART OF YOUR LIFE, AND THE ONLY WAY TO BE TRULY SATISFIED IS TO DO WHAT YOU BELIEVE IS GREAT WORK. AND THE ONLY WAY TO DO GREAT WORK IS TO LOVE WHAT YOU DO. IF YOU HAVEN'T FOUND IT YET, KEEP LOOKING. DON'T SETTLE. AS WITH ALL MATTERS OF THE HEART, YOU'LL KNOW WHEN YOU FIND IT.

- STEVE JOBS

TRANSITION FITTINGS

LEAD FREE BRASS FITTINGS

BRASS CPVC FEMALE ADAPTER



PART#	SIZE	LIST PRICE
35403LF	1/2"	
35404LF	3/4"	
35405LF	1"	
35406LF	1-1/4"	
35407LF	1-1/2"	
35408LF	2	

BRASS CPVC MALE ADAPTER



PART#	SIZE	LIST PRICE
35413LF	1/2"	
35414LF	3/4"	
35415LF	1"	
35416LF	1-1/4"	
35417LF	1-1/2"	
35418LF	2	

LEAD FREE CPVC DROP EAR ELBOW



PART#	SIZE	LIST PRICE
35420LF	1/2"	

STAINLESS STEEL CPVC MALE ADAPTER



PART#	SIZE	LIST PRICE
35413SS	1/2"	
35414SS	3/4"	
35415SS	1"	
35416SS	1-1/4"	
35417SS	1-1/2"	
35418SS	2	

STAINLESS STEEL CPVC FEMALE ADAPTER



PART#	SIZE	LIST PRICE
35403SS	1/2"	
35404SS	3/4"	
35405SS	1"	
35406SS	1-1/4"	
35407SS	1-1/2"	
35408SS	2	

STAINLESS STEEL CPVC DROP EAR ELBOW



PART#	SIZE	LIST PRICE
35420SS	1/2"	