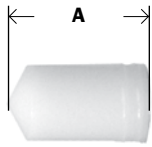
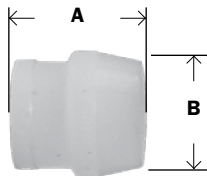


FLARELESS**BRASS FITTINGS****PLASTIC CAP**

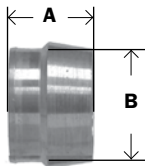
1229
59P
259P

Part #	Tube O.D.	A	Approx. Wt. Lbs.	
20-201	1/4"	0.50	0.01	
20-203	3/8"	0.56	0.01	
20-204	1/2"	0.59	0.01	

PLASTIC SLEEVE

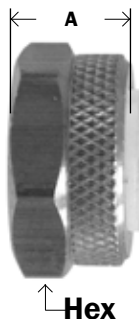
260FF
1260
60P
260P

Part #	Tube O.D.	A	B	Approx. Wt. Lbs.	
20-205	1/4"	0.34	0.26	0.01	
20-206	5/16"	0.39	0.32	0.01	
20-207	3/8"	0.41	0.38	0.01	
20-208	1/2"	0.44	0.51	0.01	

BRASS SLEEVE

260FB

Part #	Tube O.D.	A	B	Approx. Wt. Lbs.	
20-380	1/8"	0.19	0.12	0.01	
20-382	1/4"	0.32	0.25	0.01	
20-384	3/8"	0.37	0.38	0.02	

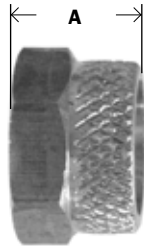
NUT AND PLASTIC SLEEVE ASSEMBLY

261PF
1261
61PN
261U

Part #	Tube O.D.	Thread	A	Hex (Dia.)	Approx. Wt. Lbs.	
20-211	1/4"	3/8-24	0.34	0.43	0.02	
20-212	5/16"	7/16-24	0.45	0.50	0.02	
20-213	3/8"	1/2-24	0.38	0.56	0.04	
20-214	1/2"	1 1/16-20	0.42	0.81	0.04	

NUT

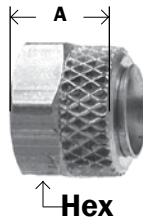
61PN
1261
261FPN



Part #	Tube O.D.	Thread	A	Hex (Dia.)	Approx. Wt. Lbs.	
20-218	1/8"	5/16-24	0.37	0.37	0.01	
20-219	3/16"	3/8-24	0.41	0.44	0.01	
20-220	1/4"	3/8-24	0.34	0.44	0.02	
20-221	5/16"	7/16-24	0.34	0.50	0.02	
20-222	3/8"	1/2-24	0.38	0.56	0.04	
20-223	1/2"	11/16-20	0.42	0.81	0.06	

UNIVERSAL NUT AND BRASS SLEEVE ASSEMBLY

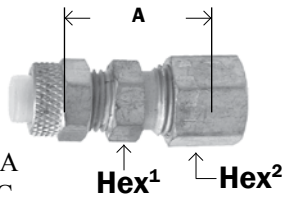
261PFB
1261B
61PB
261UB



Part #	Tube O.D.	Thread	A	Hex	Approx. Wt. Lbs.	
20-227	1/8"	5/16-24	0.37	0.37	0.02	
20-228	3/16"	3/8-24	0.41	0.44	0.02	
20-229	1/4"	3/8-24	0.34	0.43	0.02	
20-230	5/16"	7/16-24	0.34	0.50	0.02	
20-231	3/8"	1/2-24	0.37	0.56	0.04	
20-232	1/2"	11/16-20	0.42	0.81	0.04	

UNION TUBE #M62C - FLARELESS X STANDARD COMPRESSION

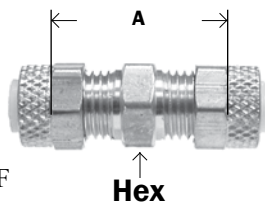
262S
62PCA
262PC



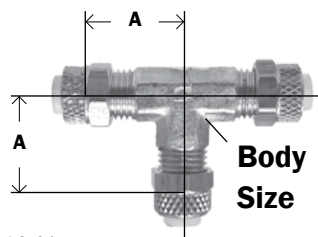
Part #	Tube O.D.	A	Hex 1	Hex 2	Approx. Wt. Lbs.	
20-235	1/4"	0.75	0.44	0.50	0.04	
20-237	3/8"	0.84	0.62	0.62	0.08	

UNION

262PF
1262
62P
262P



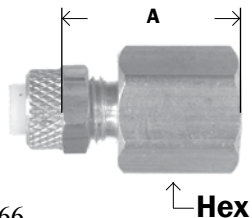
Part #	Tube O.D.	A	Hex	Approx. Wt. Lbs.	
20-240	1/8"	0.66	0.31	0.02	
20-241	3/16"	0.75	0.37	0.04	
20-242	1/4"	0.69	0.37	0.04	
20-243	5/16"	0.69	0.44	0.04	
20-244	3/8"	0.72	0.50	0.10	
20-200	3/8" x 1/4"	0.72	0.50	0.08	
20-245	1/2"	0.84	0.69	0.14	

FLARELESS**BRASS FITTINGS****UNION TEE**

1264
164P
264P

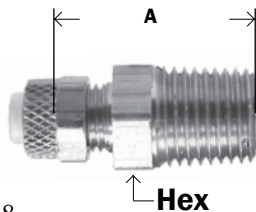
Part #	Tube O.D.	A	Body Size	Approx. Wt. Lbs.	
20-248	1/8"	0.62	0.31	0.02	
20-249	3/16"	0.62	0.31	0.04	
20-250	1/4"	0.73	0.44	0.06	
20-251	5/16"	0.62	0.37	0.08	
20-252	3/8"	0.86	0.56	0.08	
20-330*	3/8" x 1/4"	0.72	0.44	0.08	
20-253	1/2"	0.81	0.62	0.24	

* Reducing Branch

FEMALE CONNECTOR

1266
66P
266P

Part #	Tube O.D. x Female NPTF	A	Hex	Approx. Wt. Lbs.	
20-256	1/8" x 1/8"	0.75	0.56	0.03	
20-257	3/16" x 1/8"	0.78	0.56	0.05	
20-258	3/16" x 1/4"	0.97	0.69	0.05	
20-259	1/4" x 1/8"	0.76	0.50	0.04	
20-260	1/4" x 1/4"	1.08	0.62	0.05	
20-261	5/16" x 1/8"	0.75	0.50	0.03	
20-265	3/8" x 1/8"	0.77	0.56	0.05	
20-262	3/8" x 1/4"	0.94	0.62	0.05	
20-263	1/2" x 3/8"	1.00	0.81	0.12	

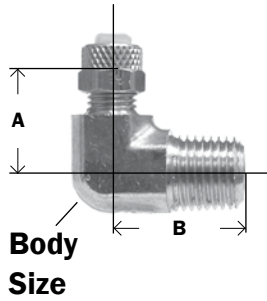
MALE CONNECTOR

1268
68P
268P

Part #	Tube O.D. x Male NPTF	A	Hex	Approx. Wt. Lbs.	
20-267	1/8" x 10-32*	0.59	0.37	0.02	
20-268	1/8" x 1/8"	0.80	0.34	0.04	
20-269	3/16" x 1/8"	0.86	0.44	0.04	
20-280	1/4" x 1/16"	0.81	0.43	0.03	
20-270	1/4" x 10-32*	0.75	0.37	0.02	
20-271	1/4" x 1/8"	0.82	0.44	0.03	
20-272	1/4" x 1/4"	1.00	0.56	0.05	
20-273	1/4" x 3/8"	1.03	0.69	0.08	
20-274	5/16" x 1/8"	0.81	0.44	0.04	
20-275	5/16" x 1/4"	1.00	0.56	0.05	
20-276	3/8" x 1/8"	0.84	0.50	0.06	
20-277	3/8" x 1/4"	1.03	0.56	0.08	
20-278	3/8" x 3/8"	1.03	0.69	0.10	
20-279	1/2" x 3/8"	1.09	0.69	0.16	
20-282	1/2" x 1/2"	1.33	0.88	0.18	

* Furnished with gasket.

MALE ELBOW

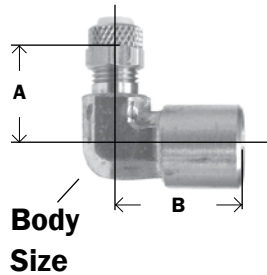


1269
169P
269P

Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-287	1/8" x 1/8"	0.62	0.69	0.31	0.02	
20-288	3/16" x 1/8"	0.62	0.69	0.37	0.04	
20-289*	1/4" x 1/8"	0.53	0.73	0.50	0.04	
20-290	1/4" x 1/4"	0.66	0.94	0.37	0.06	
20-291	1/4" x 3/8"	0.75	1.03	0.50	0.10	
20-292	5/16" x 1/8"	0.62	0.75	0.41	0.04	
20-293	3/8" x 1/8"	0.91	0.81	0.56	0.08	
20-294	3/8" x 1/4"	0.72	0.94	0.44	0.10	
20-295	3/8" x 3/8"	0.78	1.03	0.50	0.14	
20-296	1/2" x 3/8"	1.09	1.10	0.73	0.16	

* Barstock

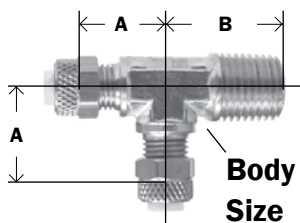
FEMALE ELBOW



1270
170P
270P

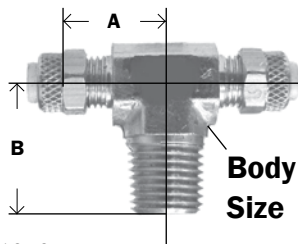
Part #	Tube O.D. x Female NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-300	1/8" x 1/8"	0.69	0.55	0.56	0.02	
20-301	3/16" x 1/8"	0.72	0.55	0.56	0.02	
20-302	1/4" x 1/8"	0.62	0.75	0.37	0.08	
20-303	1/4" x 1/4"	0.72	0.88	0.50	0.10	
20-304	3/8" x 1/4"	0.72	0.88	0.50	0.12	
20-305	1/2" x 3/8"	0.91	0.94	0.63	0.16	

MALE RUN TEE



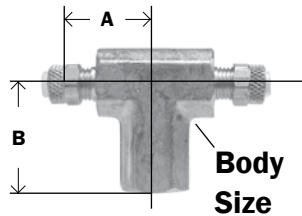
1271
171P
271P

Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-308	1/8" x 1/8"	0.62	0.69	0.31	0.04	
20-309	3/16" x 1/8"	0.62	0.69	0.31	0.04	
20-310	1/4" x 1/8"	0.62	0.75	0.37	0.08	
20-311	1/4" x 1/4"	0.66	0.94	0.37	0.10	
20-312	5/16" x 1/8"	0.62	0.75	0.37	0.08	
20-313	3/8" x 1/4"	0.66	0.94	0.44	0.10	
20-314	1/2" x 3/8"	0.81	1.06	0.63	0.16	

FLARELESS**BRASS FITTINGS****MALE BRANCH TEE**

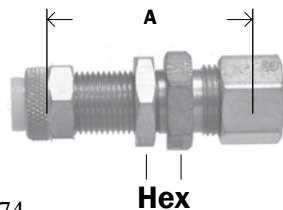
1272
172P
272P

Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-317	1/8" x 1/8"	0.63	0.69	0.31	0.04	
20-318	3/16" x 1/8"	0.63	0.69	0.31	0.04	
20-319	1/4" x 1/8"	0.63	0.75	0.37	0.07	
20-320	1/4" x 1/4"	0.66	0.94	0.37	0.09	
20-321	5/16" x 1/8"	0.63	0.75	0.37	0.10	
20-322	3/8" x 1/8"	0.63	0.75	0.44	0.08	
20-323	3/8" x 1/4"	0.66	0.94	0.44	0.11	
20-324	1/2" x 3/8"	0.81	1.06	0.63	0.21	

FEMALE BRANCH TEE

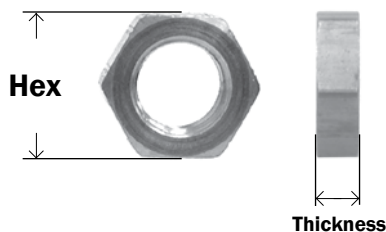
1277
177P
277P

Part #	Tube O.D. x Female NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-327	1/4" x 1/8"	0.66	0.94	0.37	0.12	
20-328	1/4" x 1/4"	0.84	1.16	0.56	0.16	

BULKHEAD UNION - FLARELESS X COMPRESSION

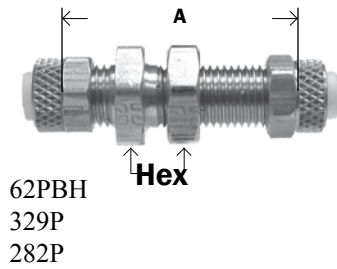
1274

Part #	Tube O.D.	A	Hex	Approx. Wt. Lbs.	
20-333	1/4"	1.31	0.56	0.07	
20-334	3/8"	1.44	0.69	0.12	

BULKHEAD NUT

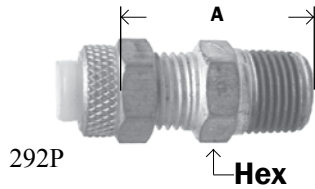
Part #	Tube O.D.	Hex	Thickness	Approx. Wt. Lbs.	
20-370	1/8"	0.31	0.25	0.01	
20-372	5/16"	0.62	0.19	0.02	

BULKHEAD UNION



Part #	Tube O.D.	A	Hex	Approx. Wt. Lbs.	
20-337	1/4"	1.25	0.56	0.06	
20-338	5/16"	1.25	0.62	0.08	
20-339	3/8"	1.31	0.69	0.10	

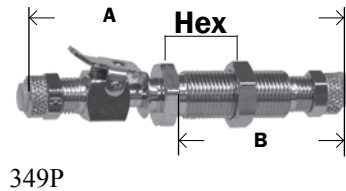
QUICK DISCONNECT FITTING



Part #	Tube O.D. x Male NPTF	A	Hex	Approx. Wt. Lbs.	
20-344	1/4" x 1/8"	0.87	0.44	0.06	

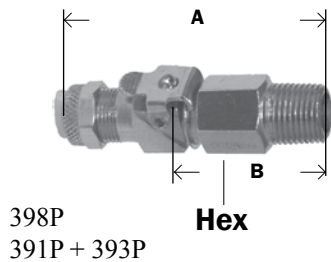
QUICK DISCONNECT COUPLERS

TUBE X TUBE - Single end Shut-Off



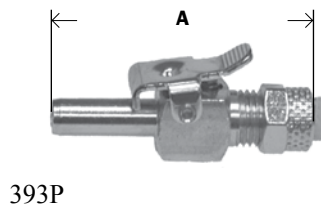
Part #	Tube O.D.	A	B	Hex	Approx. Wt. Lbs.	
20-401	1/4"	3.00	1.72	0.62	0.06	
20-403	3/8"	3.56	1.92	0.81	0.10	

TUBE TO MALE THREAD - Single end Shut-Off, Connector, Quick Coupler.

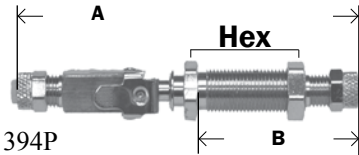


Part #	Tube O.D. x Male Pipe	A	B	Hex	Approx. Wt. Lbs.	
20-409	1/4" x 1/8"	2.31	1.28	0.50	0.12	
20-411	1/4" x 1/4"	2.31	1.28	0.56	0.14	
20-413	3/8" x 1/4"	2.63	1.42	0.62	0.18	

INSERT ONLY - Thru type insert. No Shut-Off.

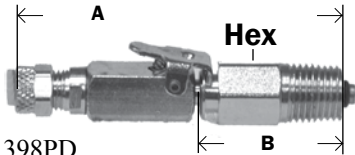


Part #	Tube O.D.	A	Approx. Wt. Lbs.	
20-417	1/4"	1.69	0.04	
20-419	3/8"	1.93	0.06	

FLARELESS**BRASS FITTINGS****TUBE TO TUBE - Double end Shut-Off Type.**

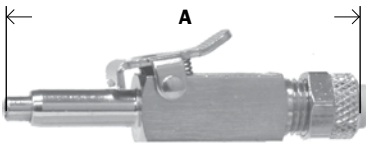
394P
392P + 393PD

Part #	Tube O.D.	A	B	Hex	Approx. Wt. Lbs.	
20-425	1/4"	3.67	1.79	0.62	0.18	
20-427	3/8"	3.82	1.97	0.81	0.26	

TUBE X MALE PIPE - Double End Shut-Off, Connector, Quick coupler.

398PD
393PD + 391P

Part #	Tube O.D. x Male Pipe	A	B	Hex	Approx. Wt. Lbs.	
20-435	1/4" x 1/8"	2.89	1.28	0.50	0.14	
20-437	1/4" x 1/4"	2.91	1.27	0.56	0.18	
20-439	3/8" x 1/4"	3.02	1.40	0.62	0.24	

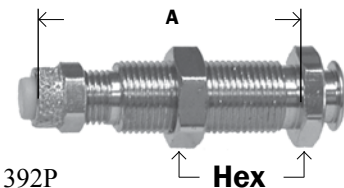
INSERT ONLY - Double End Shut-Off

393PD

Part #	Tube O.D.	A	Approx. Wt. Lbs.	
20-445	1/4"	2.40	0.08	

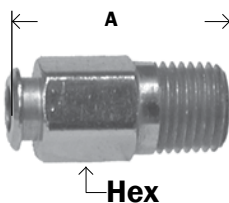
CHROME PLATED NUT AND PLASTIC SLEEVE

Part #	Tube O.D.	A	Hex	Approx. Wt. Lbs.	
20-451	1/4"	0.34	0.43	0.01	
20-453	3/8"	0.38	0.56	0.01	

TUBE CONNECTION - Single end or Double end Shut-Off Type body only.

392P

Part #	Tube O.D.	A	Hex	Approx. Wt. Lbs.	
20-455	1/4"	1.79	0.62	0.10	
20-457	3/8"	1.97	0.81	0.16	

MALE PIPE CONNECTION - Internal Shut-Off

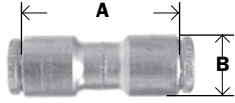
391P

Part #	Tube O.D. x Male Pipe	A	Hex	Approx. Wt. Lbs.	
20-461	1/4" x 1/8"	1.28	0.50	0.06	
20-463	1/4" x 1/4"	1.27	0.56	0.08	
20-465	3/8" x 1/4"	1.40	0.62	0.08	

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

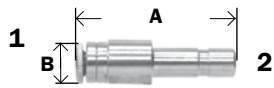
UNION CONNECTOR



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

Part #	Tube O.D.	A	B	Approx. Wt. Lbs.	
20-017	1/8"	1.07	0.38	0.03	
20-018	5/32"	1.07	0.38	0.03	
20-019	1/4"	1.50	0.44	0.05	
20-022	3/8" x 1/4"	1.46	0.56	0.05	
20-020	3/8"	1.44	0.56	0.06	
20-021	1/2"	1.63	0.81	0.18	

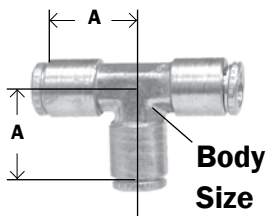
REDUCER - NICKEL PLATED - TUBE OD X STUD



67PPL
 286PP

Part #	Tube O.D. 1 X 2	A	B	Approx. Wt. Lbs.	
20-510	1/8" x 1/4"	1.38	0.39	0.02	
20-511	5/32" x 1/4"	1.33	0.35	0.02	
20-512	1/4" x 3/8"	1.50	0.51	0.04	

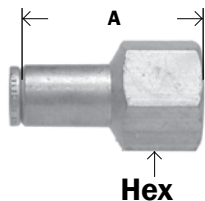
UNION TEE



KQT 1164
 12-060 AQ64
 50-564 6540
 264OF 3140
 264PP 164PL

Part #	Tube O.D.	A	Body Size	Approx. Wt. Lbs.	
20-025	1/8"	0.65	0.31	0.04	
20-026	5/32"	0.67	0.31	0.04	
20-027	3/16"	0.75	0.37	0.06	
20-028	1/4"	0.92	0.37	0.09	
20-031	5/16"	0.89	0.49	0.10	
20-029	3/8"	0.98	0.50	0.13	
20-030	1/2"	1.16	0.62	0.24	

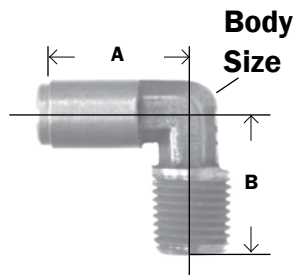
FEMALE CONNECTOR



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

Part #	Tube O.D. x Female NPTF	A	Hex	Approx. Wt. Lbs.	
20-032	1/8" x 1/8"	0.96	0.56	0.04	
20-038	1/8" x 1/4"	1.04	0.67	0.04	
20-012	5/32" x 1/8"	1.09	0.56	0.05	
20-034	1/4" x 1/8"	1.23	0.56	0.06	
20-035	1/4" x 1/4"	1.42	0.75	0.09	
20-036	3/8" x 1/4"	1.32	0.75	0.09	
20-037	3/8" x 3/8"	1.31	0.87	0.12	

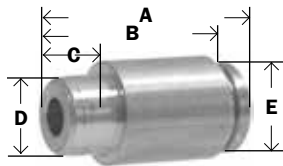
FIXED MALE ELBOW



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

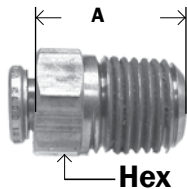
Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-065	1/8" x 1/8"	0.69	0.69	0.31	0.03	
20-066	5/32" x 1/8"	0.68	0.68	0.31	0.03	
20-067	3/16" x 1/8"	0.75	0.71	0.37	0.04	
20-068	1/4" x 1/8"	0.89	0.75	0.37	0.06	
20-069	1/4" x 1/4"	0.95	0.96	0.37	0.08	
20-070	1/4" x 3/8"	1.00	0.98	0.50	0.10	
20-071	3/8" x 1/8"	0.99	0.80	0.50	0.06	
20-072	3/8" x 1/4"	0.98	0.98	0.50	0.09	
20-073	3/8" x 3/8"	0.97	0.98	0.50	0.12	
20-074	1/2" x 1/4"	1.15	1.05	0.62	0.15	
20-075	1/2" x 3/8"	1.18	1.05	0.62	0.22	
20-064	1/2" x 1/2"	1.16	1.66	0.62	0.20	

PRESS-IN CARTRIDGE



Part #	Tube O.D.	A	B	C	D	E	
20-040	1/8"	0.67	0.59	0.20	0.30	0.38	
20-041	5/32"	0.67	0.59	0.20	0.30	0.38	
20-043	1/4"	0.93	0.85	0.26	0.38	0.50	
20-044	3/8"	1.21	1.13	0.26	0.38	0.63	

MALE CONNECTOR



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

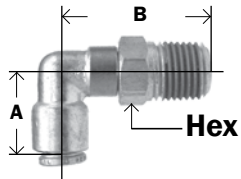
Part #	Tube O.D. x Male NPTF	A	Hex	Approx. Wt. Lbs.	
20-047	1/8" x 10-32"*	0.69	0.37	0.02	LOWER
20-045	1/8" x 1/16"	0.68	0.37	0.02	LOWER
20-048	1/8" x 1/8"	0.61	0.43	0.02	LOWER
20-023	1/8" x 1/4"	0.98	0.56	0.04	
20-049	5/32" x 10-32"*	0.67	0.37	0.02	LOWER
20-050	5/32" x 1/8"	0.67	0.43	0.03	
20-046	5/32" x 1/4"	0.85	0.56	0.05	
20-051	3/16" x 10-32"*	0.80	0.37	0.02	LOWER
20-052	3/16" x 1/8"	0.93	0.43	0.03	
20-053	1/4" x 10-32"*	0.87	0.43	0.03	LOWER
20-039	1/4" x 1/16"	0.92	0.43	0.06	
20-054	1/4" x 1/8"	0.93	0.43	0.06	
20-055	1/4" x 1/4"	0.93	0.56	0.10	
20-056	1/4" x 3/8"	0.94	0.68	0.08	
20-530	5/16" x 1/8"	1.07	0.56	0.05	
20-531	5/16" x 1/4"	0.98	0.56	0.10	
20-532	5/16" x 3/8"	1.06	0.75	0.08	
20-057	3/8" x 1/8"	1.10	0.56	0.06	
20-058	3/8" x 1/4"	1.11	0.56	0.05	
20-059	3/8" x 3/8"	1.02	0.68	0.08	
20-062	3/8" x 1/2"	1.02	0.87	0.08	
20-060	1/2" x 1/4"	1.36	0.81	0.11	
20-061	1/2" x 3/8"	1.30	0.81	0.12	
20-063	1/2" x 1/2"	1.23	0.87	0.14	

* Furnished with gaskets

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL MALE ELBOW



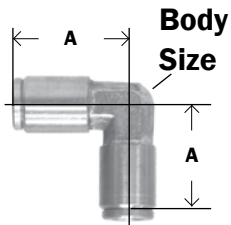
AQ69-PS 12-447
 56520 50-579
 3109 269-OFS
 169PL 11695
 KQL

Part #	Tube O.D. x Male NPTF	A	B	Hex	Approx. Wt. Lbs.	
20-079	1/8" x 1/8"	0.69	0.98	0.43	0.07	
20-535*	1/8" x 1/4"	0.76	0.87	0.56	0.06	
20-076**	5/32" x 10-32"	0.67	0.71	0.37	0.04	
20-080	5/32" x 1/8"	0.68	0.89	0.43	0.05	
20-077	5/32" x 1/4"	0.68	1.08	0.56	0.07	
20-078**	1/4" x 10-32"	0.86	0.79	0.31	0.05	
20-081	1/4" x 1/8"	0.90	0.93	0.37	0.08	
20-082	1/4" x 1/4"	0.90	0.99	0.56	0.10	
20-086	1/4" x 3/8"	0.98	1.14	0.68	0.09	
20-538*	5/16" x 1/4"	0.91	0.85	0.56	0.07	
20-539*	5/16" x 3/8"	0.91	0.87	0.75	0.08	
20-087	3/8" x 1/8"	0.94	1.08	0.50	0.09	
20-083	3/8" x 1/4"	0.99	1.15	0.56	0.10	
20-084	3/8" x 3/8"	1.00	1.24	0.68	0.20	
20-088	3/8" x 1/2"	1.00	1.54	0.87	0.19	
20-085	1/2" x 3/8"	1.16	1.34	0.62	0.18	
20-092	1/2" x 1/2"	1.16	1.61	0.62	0.24	

* Nickel Plated

** Furnished with gaskets

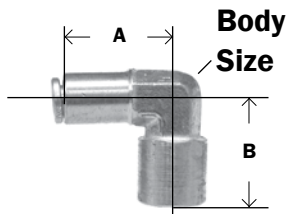
UNION ELBOW



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

Part #	Tube O.D.	A	Body Size	Approx. Wt. Lbs.	
20-150	1/8"	0.65	0.31	0.02	
20-151	5/32"	0.67	0.31	0.04	
20-152	1/4"	0.87	0.37	0.06	
20-155	5/16"	0.91	0.47	0.08	
20-153	3/8"	0.97	0.50	0.09	
20-154	1/2"	1.15	0.62	0.18	

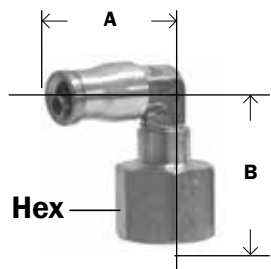
FEMALE ELBOW



AQ70-P
 3009

Part #	Tube O.D. x Female NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-192	1/8" x 1/8"	0.78	0.82	0.31	0.02	
20-094	5/32" x 1/8"	0.68	0.82	0.37	0.02	
20-089	1/4" x 1/8"	0.91	0.75	0.37	0.06	
20-090	1/4" x 1/4"	1.03	1.03	0.50	0.11	
20-091	3/8" x 1/4"	0.98	0.95	0.50	0.16	

FEMALE SWIVEL ELBOW



Part #	Tube O.D. x Female NPTF	A	B	Hex	
20-094S	5/32" x 1/8"	0.76	1.06	0.56	
20-089S	1/4" x 1/8"	0.98	1.08	0.56	
20-090S	1/4" x 1/4"	0.98	1.26	0.75	
20-091S	3/8" x 1/4"	1.07	1.48	0.75	

ROCHESTER INDUSTRIAL PRODUCTS

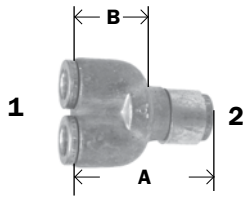
Phone: 800-723-1670

www.rochesterindustrialproducts.com

BRASS FITTINGS

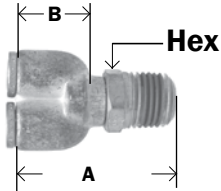
BRASS PUSH - IN FITTINGS

UNION "Y"



Part #	Tube O.D. 1 X 2	A	B	Approx. Wt. Lbs.	
20-551	5/32" x 5/32"	1.36	0.81	0.11	
20-552	1/4" x 1/8"	1.61	1.06	0.12	
20-553	1/4" x 1/4"	1.81	1.16	0.14	

MALE "Y"

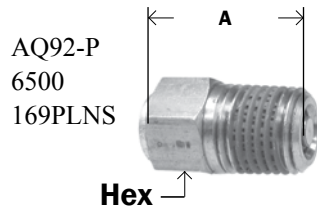


12-445
50-569
1169

Part #	Tube O.D. x Male NPTF	A	B	Hex	Approx. Wt. Lbs.	
20-557	1/4" x 1/4"	1.90	1.06	0.56	0.20	

QUICK DISCONNECT

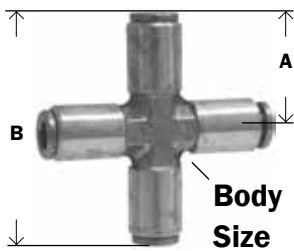
When tube is disconnected, flow shuts off automatically.



AQ92-P
6500
169PLNS

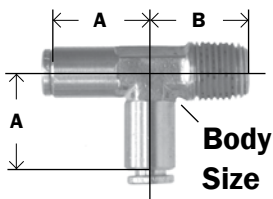
Part #	Tube O.D. x Male NPTF	A	Hex	Approx. Wt. Lbs.	
20-133	1/4" x 1/8"	0.92	0.43	0.10	
20-134	1/4" x 1/4"	0.92	0.56	0.12	

CROSS



Size	Size	A	B	Body Size	
20-142	1/4"	1.03	2.06	0.37	
20-143	3/8"	1.06	2.12	0.50	

FIXED MALE RUN TEE



AQ71-P

Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-095	1/8" x 1/8"	0.65	0.72	0.31	0.04	
20-097	3/16" x 1/8"	0.75	0.73	0.37	0.06	
20-098	1/4" x 1/8"	0.92	0.74	0.37	0.08	
20-093	1/4" x 1/4"	0.92	0.92	0.43	0.10	
20-099	3/8" x 1/8"	0.94	0.82	0.50	0.14	
20-100	3/8" x 1/4"	0.98	0.98	0.50	0.12	
20-101	3/8" x 3/8"	1.05	1.05	0.62	0.10	
20-102	1/2" x 3/8"	1.14	1.05	0.62	0.18	

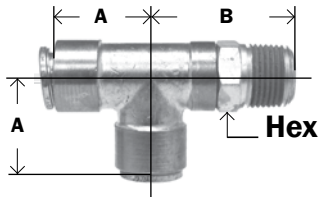
ROCHESTER INDUSTRIAL PRODUCTS

sales@rochesterindustrialproducts.com

Fax: 248-652-2202

BRASS

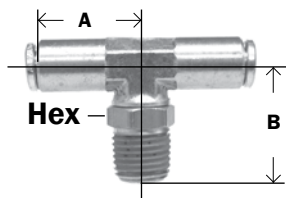
SWIVEL MALE RUN TEE



AQ71-PS 12-468
 56440 50-571
 3103 271-OFS
 171PL 11715
 KQY

Part #	Tube O.D. x Male NPTF	A	B	Hex	Approx. Wt. Lbs.	
20-160	1/8" x 1/8"	0.65	0.86	0.43	0.08	
20-161	5/32" x 1/8"	0.67	1.04	0.43	0.09	
20-162	1/4" x 1/8"	0.92	1.04	0.44	0.09	
20-163	1/4" x 1/4"	0.92	1.13	0.56	0.11	
20-164	3/8" x 1/4"	0.94	1.19	0.56	0.11	
20-165	3/8" x 3/8"	0.96	1.24	0.50	0.12	
20-174	1/2" x 1/4"	1.12	1.18	0.51	0.16	
20-166	1/2" x 3/8"	1.14	1.31	0.68	0.14	
20-167	1/2" x 1/2"	1.14	1.61	0.87	0.16	

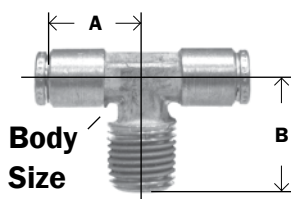
SWIVEL MALE BRANCH TEE



Part #	Tube O.D. x Male NPTF	A	B	Hex	Approx. Wt. Lbs.	
20-103	1/8" x 1/8"	0.65	0.81	0.31	0.04	
20-104	5/32" x 10-32"*	0.65	0.71	0.31	0.04	
20-109	5/32" x 1/8"	0.67	0.94	0.37	0.06	
20-105	1/4" x 1/8"	0.92	0.97	0.37	0.08	
20-106	1/4" x 1/4"	0.92	1.09	0.37	0.10	
20-107	3/8" x 1/4"	0.96	1.14	0.56	0.18	
20-108	3/8" x 3/8"	0.96	1.23	0.69	0.16	
20-110	1/2" x 3/8"	1.16	1.34	0.69	0.24	
20-111	1/2" x 1/2"	1.16	1.64	0.87	0.28	

* Furnished with gaskets

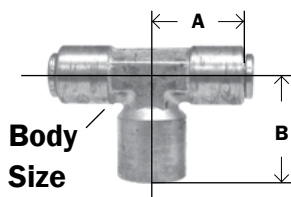
FIXED MALE BRANCH TEE



AQ72-P

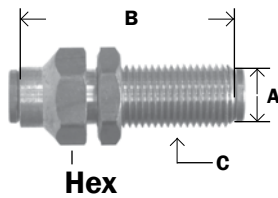
Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-112	1/8" x 1/8"	0.69	0.72	0.31	0.04	
20-113	5/32" x 1/8"	0.69	0.65	0.31	0.04	
20-115	1/4" x 1/8"	0.92	0.74	0.37	0.12	
20-116	1/4" x 1/4"	0.91	0.93	0.37	0.10	
20-117	3/8" x 1/8"	0.98	0.80	0.50	0.08	
20-118	3/8" x 1/4"	0.98	0.97	0.50	0.12	
20-119	3/8" x 3/8"	0.98	0.97	0.50	0.14	
20-120	1/2" x 3/8"	1.16	1.05	0.62	0.18	

FEMALE BRANCH TEE



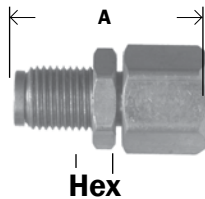
AQ77-P
 3008
 177PL

Part #	Tube O.D. x Female NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-130	1/4" x 1/8"	0.89	0.75	0.43	0.06	
20-132	3/8" x 1/4"	0.96	0.98	0.50	0.12	

BRASS FITTINGS**BRASS PUSH - IN FITTINGS****BULKHEAD UNION**

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

Part #	Tube O.D. A	B	C	Hex	Approx. Wt. Lbs.	
20-124	1/8"	1.12	7/16-20	0.62	0.03	
20-125	5/32"	1.12	7/16-20	0.62	0.03	
20-126	3/16"	1.27	1/2-20	0.68	0.04	
20-127	1/4"	1.69	1/2-20	0.68	0.06	
20-128	3/8"	1.69	3/4-16	0.81	0.13	
20-129	1/2"	1.85	15/16-20	1.12	0.16	

FEMALE BULKHEAD UNION

AQ86-P
 1166BH

Part #	Tube O.D. x Female NPTF	A	Hex	Approx. Wt. Lbs.	
20-170	1/4" x 1/8"	1.19	0.68	0.08	
20-171	1/4" x 1/4"	1.36	0.75	0.10	
20-172	3/8" x 1/4"	1.71	0.75	0.14	

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

NICKEL PLATED PUSH-IN FITTINGS

PAGES 103-111

Component Parts and Materials	
Body	Brass - Nickel Plated
Thrust Ring	Plastic
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: 0-250 psi (17 bar) Vacuum service.

Min Temperature: 0°F (-18°C)

Max Temperature: 160°F (+70°C)

Tubing: Nylon, Polyethylene, Polyurethane.

- For best results use 95 Durometer

Media: Compressed air, water.

• **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



**Look for this
 Logo**

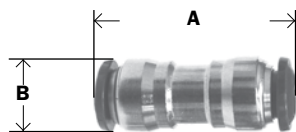
“Global Thread” fittings can be assembled with female threads

produced to the following stan-

dards: **Tapered NPTF**

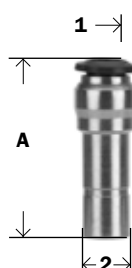
Parallel (BSPP, BSP, ISO 7)

Tapered (BSPT, PT, ISO 7, ISO 228)

NICKEL PLATED PUSH-IN FITTINGS
UNION CONNECTOR


62PL
88040

Part #	Tube O.D.	A	B	Approx. Wt. Lbs.	
20-017N	1/8"	1.06	0.34	0.03	
20-018N	5/32"	1.20	0.41	0.03	
20-016N	5/32" x 1/4"	1.20	0.40	0.04	
20-019N	1/4"	1.38	0.49	0.05	
20-015N	5/16"	1.46	0.57	0.06	
20-020N	3/8"	1.69	0.69	0.06	
20-022N	3/8" x 1/4"	1.69	0.68	0.06	
20-021N	1/2"	1.93	0.81	0.18	
20-024N	1/2" x 3/8"	1.84	0.80	0.17	

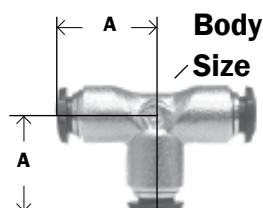
REDUCER


67PPL
88700

Part #	Tube O.D. 2	Tube O.D. 1	A	
20-510N	1/4"	1/8"	1.142	
20-511N	1/4"	5/32"	1.181	
20-512N	3/8"	1/4"	1.496	
20-513N	1/2"	1/4"	1.693	
20-514N	1/2"	3/8"	1.693	

UNION TEE

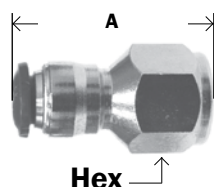
164PL
88230



Part #	Tube O.D.	A	Body Size	Approx. Wt. Lbs.	
20-025N	1/8"	0.67	0.35	0.04	
20-026N	5/32"	0.67	0.35	0.04	
20-028N	1/4"	0.83	0.43	0.09	
20-031N	5/16"	0.87	0.51	0.10	
20-029N	3/8"	1.04	0.63	0.13	
20-030N	1/2"	1.20	0.74	0.24	

FEMALE CONNECTOR

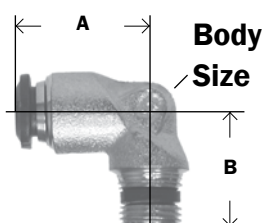
66PL
88030



Part #	Tube O.D. x Female NPTF	A	Hex	Approx. Wt. Lbs.	
20-032N	1/8" x 1/8"	0.93	0.51	0.04	
20-038N	1/8" x 1/4"	1.14	0.63	0.04	
20-034N	1/4" x 1/8"	1.06	0.51	0.06	
20-035N	1/4" x 1/4"	1.26	0.63	0.09	
20-036N	3/8" x 1/4"	1.38	0.71	0.09	
20-037N	3/8" x 3/8"	1.38	0.79	0.12	

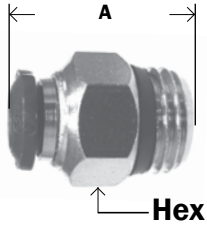
FIXED MALE ELBOW

W169P
88100



Part #	Tube O.D. x Male NPTF	A	B	Body Size	Approx. Wt. Lbs.	
20-068N	1/4" x 1/8"	0.83	0.73	0.43	0.06	
20-069N	1/4" x 1/4"	0.83	0.91	0.43	0.08	
20-072N	3/8" x 1/4"	1.04	1.04	0.63	0.09	
20-073N	3/8" x 3/8"	1.04	1.00	0.63	0.12	

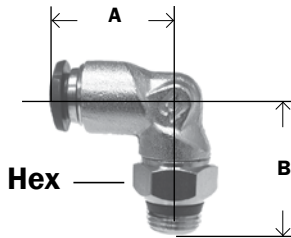
MALE CONNECTOR



68PL
87000

Part #	Tube O.D. x Male Global Thread	A	Hex	Approx. Wt. Lbs.	
20-047N	1/8" x 10-32"	0.75	0.31	0.02	
20-048N	1/8" x 1/8"	0.77	0.43	0.02	
20-023N	1/8" x 1/4"	0.97	0.55	0.04	
20-049N	5/32" x 10-32"	0.83	0.39	0.02	
20-050N	5/32" x 1/8"	0.83	0.43	0.03	
20-046N	5/32" x 1/4"	0.98	0.55	0.05	
20-053N	1/4" x 10-32"	0.97	0.51	0.03	
20-054N	1/4" x 1/8"	0.98	0.51	0.06	
20-055N	1/4" x 1/4"	0.98	0.55	0.10	
20-056N	1/4" x 3/8"	0.98	0.71	0.08	
20-530N	5/16" x 1/8"	0.98	0.55	0.05	
20-531N	5/16" x 1/4"	1.08	0.55	0.10	
20-532N	5/16" x 3/8"	1.08	0.71	0.08	
20-057N	3/8" x 1/8"	1.38	0.67	0.06	
20-058N	3/8" x 1/4"	1.32	0.67	0.05	
20-059N	3/8" x 3/8"	1.32	0.71	0.08	
20-062N	3/8" x 1/2"	1.32	0.87	0.08	
20-060N	1/2" x 1/4"	1.54	0.79	0.11	
20-061N	1/2" x 3/8"	1.42	0.79	0.12	
20-063N	1/2" x 1/2"	1.58	0.87	0.14	

SWIVEL MALE ELBOW

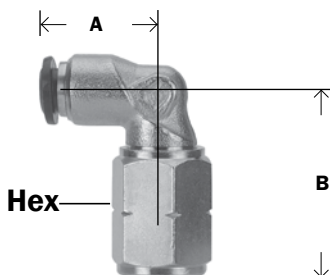


W169PL
87110



Part #	Tube O.D. x Male Global Thread	A	B	Hex	Approx. Wt. Lbs.	
20-079N	1/8" x 1/8"	0.67	0.78	0.51	0.07	
20-535N	1/8" x 1/4"	0.67	0.95	0.59	0.06	
20-076N	5/32" x 10-32"	0.67	0.95	0.59	0.04	
20-080N	5/32" x 1/8"	0.67	0.79	0.51	0.05	
20-081N	1/4" x 1/8"	0.83	0.87	0.51	0.08	
20-082N	1/4" x 1/4"	0.83	0.98	0.59	0.10	
20-086N	1/4" x 3/8"	0.83	1.10	0.67	0.09	
20-538N	5/16" x 1/4"	0.89	1.02	0.59	0.07	
20-539N	5/16" x 3/8"	0.87	1.10	0.67	0.08	
20-087N	3/8" x 1/8"	1.04	1.02	0.51	0.09	
20-083N	3/8" x 1/4"	1.04	1.10	0.59	0.10	
20-084N	3/8" x 3/8"	1.04	1.18	0.67	0.20	
20-088N	3/8" x 1/2"	1.04	1.30	0.83	0.19	
20-085N	1/2" x 3/8"	1.20	1.24	0.59	0.18	
20-092N	1/2" x 1/2"	1.20	1.42	0.83	0.24	

FEMALE SWIVEL ELBOW



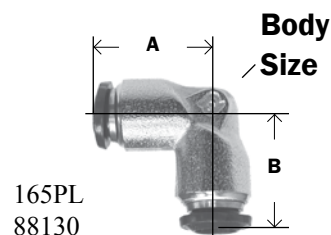
Part #	Tube O.D. x Female NPTF	A	B	Hex	
20-094N	5/32" x 1/8"	0.669	0.994	0.354	
20-089N	1/4" x 1/8"	0.826	1.023	0.433	
20-090N	1/4" x 1/4"	0.826	1.200	0.433	
20-762N	3/8" x 1/8"	0.885	1.082	0.511	
20-091N	3/8" x 1/4"	0.885	1.240	0.511	

NICKEL PLATED PUSH - IN FITTINGS

BRASS FITTINGS

UNION ELBOW

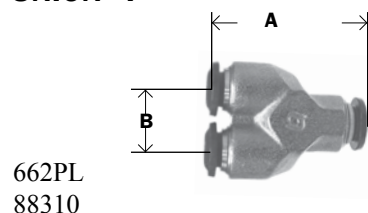
BRASS



165PL
88130

Part #	Tube O.D.	A	Body Size	Approx. Wt. Lbs.	
20-150N	1/8"	0.67	0.35	0.02	
20-151N	5/32"	0.67	0.35	0.04	
20-152N	1/4"	0.83	0.43	0.06	
20-155N	5/16"	0.87	0.51	0.08	
20-153N	3/8"	1.04	0.63	0.09	
20-154N	1/2"	1.20	0.75	0.18	

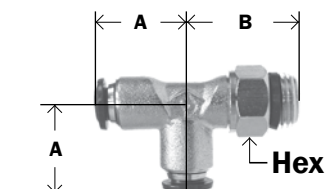
UNION "Y"



662PL
88310

Part #	Tube O.D.	A	B	Approx. Wt. Lbs.	
20-553N	1/4" x 1/4"	1.44	0.53	0.14	

SWIVEL MALE RUN TEE



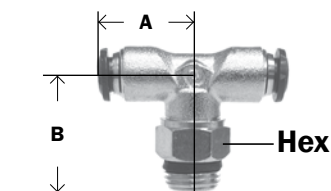
W171PL
87222



NEW

Part #	Tube O.D. x Male Global Thread	A	B	Hex	Approx. Wt. Lbs.	
20-162N	1/4" x 1/8"	0.83	0.87	0.51	0.09	
20-163N	1/4" x 1/4"	0.83	0.98	0.59	0.11	
20-168N	3/8" x 1/4"	1.04	1.10	0.59		
20-164N	1/4" x 3/8"	0.83	1.10	0.59	0.11	
20-165N	3/8" x 3/8"	1.04	1.18	0.67	0.12	
20-174N	1/2" x 1/4"	1.20	1.24	0.59	0.16	
20-166N	1/2" x 3/8"	1.20	1.30	0.67	0.14	

SWIVEL MALE BRANCH TEE



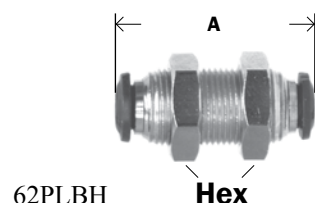
W172PL
87210



NEW

Part #	Tube O.D. x Male Global Thread	A	B	Hex	Approx. Wt. Lbs.	
20-103N	1/8" x 1/8"	0.67	0.78	0.51	0.04	
20-104N	5/32" x 10-32"	0.67	0.79	0.31	0.04	
20-105N	1/4" x 1/8"	0.83	0.87	0.51	0.08	
20-106N	1/4" x 1/4"	0.83	0.98	0.59	0.10	
20-156N	1/4" x 3/8"	1.043	1.10	0.59	0.18	
20-107N	3/8" x 1/4"	1.04	1.10	0.59	0.18	
20-108N	3/8" x 3/8"	1.04	1.18	0.67	0.16	
20-158N	3/8" x 1/2"	1.04	1.30	0.82		
20-110N	1/2" x 3/8"	1.20	1.30	0.67	0.24	
20-111N	1/2" x 1/2"	1.20	1.42	0.82	0.28	

BULKHEAD UNION



62PLBH
88050

Part #	Tube O.D.	A	Hex	Approx. Wt. Lbs.	
20-127N	1/4"	1.38	0.67	0.06	
20-123N	5/16"	1.45	0.74	0.08	
20-128N	3/8"	1.69	0.94	0.13	

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Push-In Ball Valves

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 Vacuum service

Temperatures:
 Minimum: 0°F (-18°C)
 Maximum: 160°F (+70°C)

Media:
 Air, Oil, Water, Gas
 (Consult factory for seal compatibility)

POS	Components	Materials
1	Body	Chrome plated brass
2	Ball Seats	Teflon
3	Stem Seal	NBR 70 (Viton & other compounds on request)
4	Stem	Chrome plated brass
5	Handle	Glass filled nylon
6	Color Plate	Nylon (Std. Blue, optional, green, yellow, red, white)
7	Handle Screw	Steel - Plated for corrosion resistance
8	Ball Retainer Seal	NBR 70 (Viton & other compounds on request)
9	Ball Retainer	Chrome plated brass
10	Ball	Chrome plated brass



BALL VALVE WITH PUSH-FIT CONNECTIONS

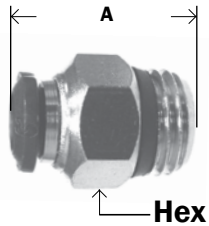
Part #	Tube	
28-400	1/8"	
28-401	1/4"	
28-402	3/8"	

BALL VALVE MALE NPTF
PUSH-FIT CONNECTIONS

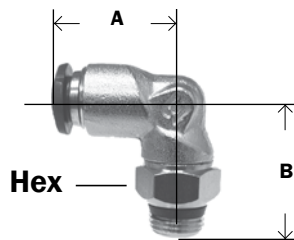
Part #	NPTF	Tube	
28-403	1/8"	5/32"	
28-404	1/4"	1/4"	
28-405	3/8"	3/8"	

The great thing in this world is not so much where you stand, as in what direction you are moving.

– Oliver Wendell Holmes

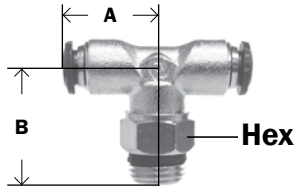
NICKEL PLATED METRIC PUSH-IN FITTINGS
BRASS
METRIC TUBE STRAIGHT MALE


Part #	Tube O.D. (mm)	Global Thread	A	Hex	
20-630N	4	1/8"	0.702	0.429	
20-631N	4	1/4"	0.760	0.546	
20-700N	5	1/8"	0.78	0.429	
20-701N	5	1/4"	0.78	0.546	
20-632N	6	1/8"	0.78	0.546	
20-633N	6	1/4"	0.819	0.546	
20-702N	8	1/8"	0.955	0.546	
20-634N	8	1/4"	0.858	0.546	
20-635N	8	3/8"	0.897	0.663	
20-703N	8	1/2"	0.897	0.663	
20-636N	10	1/4"	1.092	0.663	
20-637N	10	3/8"	1.092	0.663	
20-704N	10	1/2"	1.014	0.663	
20-801N	12	1/4"	1.267	0.78	
20-638N	12	3/8"	1.267	0.78	
20-705N	12	1/2"	1.209	0.78	
20-706N	14	3/8"	1.287	0.858	
20-707N	14	1/2"	1.248	0.858	

METRIC TUBE SWIVEL MALE ELBOW


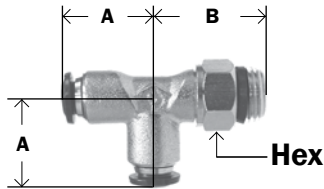
Part #	Tube O.D. (mm)	Global Thread	A	B	Hex	
20-708N	4	1/8"	0.663	0.780	0.507	
20-709N	4	1/4"	0.663	0.936	0.585	
20-710N	5	1/8"	0.780	0.858	0.507	
20-642N	6	1/8"	0.819	0.858	0.507	
20-803N	6	1/4"	0.819	0.975	0.585	
20-711N	8	1/8"	0.878	0.917	0.507	
20-805N	8	1/4"	0.878	1.014	0.585	
20-655N	8	3/8"	0.878	1.092	0.663	
20-712N	8	1/2"	0.878	1.404	0.819	
20-656N	10	1/4"	1.034	1.092	0.585	
20-657N	10	3/8"	1.034	1.170	0.663	
20-713N	10	1/2"	1.034	1.287	0.819	
20-658N	12	3/8"	1.190	1.287	0.663	
20-659N	12	1/2"	1.190	1.404	0.819	
20-714N	14	3/8"	1.268	1.404	0.663	
20-715N	14	1/2"	1.268	1.443	0.819	

METRIC TUBE SWIVEL MALE BRANCH TEE



Part #	Tube O.D. (mm)	Global Thread	A	B	Hex	
20-680N	4	1/8"	0.663	0.780	0.507	
20-716N	4	1/4"	0.663	0.936	0.585	
20-717N	5	1/8"	0.78	0.858	0.507	
20-682N	6	1/8"	0.819	0.858	0.507	
20-683N	6	1/4"	0.819	0.975	0.585	
20-809N	8	1/8"	0.877	0.917	0.507	
20-684N	8	1/4"	0.877	1.014	0.585	
20-686N	10	1/4"	1.033	1.092	0.585	
20-687N	10	3/8"	1.033	1.170	0.663	
20-810N	10	1/2"	1.033	1.287	0.819	
20-688N	12	3/8"	1.189	1.287	0.663	
20-689N	12	1/2"	1.189	1.404	0.819	
20-718N	14	3/8"	1.267	1.404	0.663	
20-719N	14	1/2"	1.267	1.443	0.819	

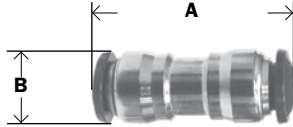
METRIC TUBE SWIVEL MALE RUN TEE



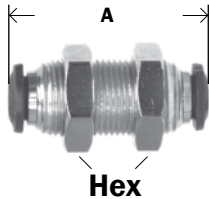
Part #	Tube O.D. (mm)	Global Thread	A	B	Hex	
20-670N	4	1/8"	0.663	0.780	0.507	
20-720N	4	1/4"	0.663	0.936	0.585	
20-721N	5	1/8"	0.780	0.858	0.507	
20-672N	6	1/8"	0.819	0.858	0.507	
20-673N	6	1/4"	0.819	0.975	0.585	
20-811N	8	1/8"	0.819	0.917	0.507	
20-674N	8	1/4"	0.878	1.014	0.585	
20-676N	10	1/4"	0.878	1.092	0.585	
20-677N	10	3/8"	1.034	1.170	0.663	
20-722N	10	1/2"	1.034	1.287	0.819	
20-678N	12	3/8"	1.190	1.287	0.663	
20-679N	12	1/2"	1.190	1.404	0.819	

EVERY TRUTH PASSES THROUGH THREE STAGES BEFORE IT IS RECOGNIZED. IN THE FIRST, IT IS RIDICULED. IN THE SECOND, IT IS OPPOSED. IN THE THIRD, IT IS REGARDED AS SELF EVIDENT.

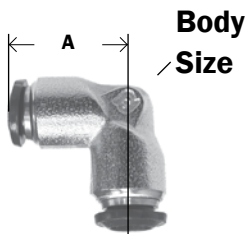
– ARTHUR SCHOPENHAUER

BULKHEAD UNION
BRASS


Part #	Tube O.D. (mm)	Tube O.D. (mm)	A	B	
20-723N	3		1.014	0.332	
20-600N	4		1.190	0.410	
20-724N	5		1.287	0.449	
20-725N	6	4	1.248	0.488	
20-601N	6		1.326	0.488	
20-726N	8	6	1.365	0.566	
20-727N	8		1.404	0.566	
20-728N	10	8	1.638	0.683	
20-603N	10		1.638	0.683	
20-729N	12	10	1.833	0.800	
20-604N	12		1.833	0.800	
20-730N	14		1.911	0.839	

BULKHEAD


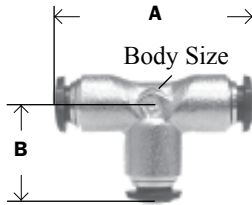
Part #	Tube O.D. (mm)	M	A	Hex	
20-731N	3	M10x1	1.014	0.546	
20-732N	4	M12x1	1.229	0.663	
20-733N	5	M14x1	1.287	0.663	
20-734N	6	M14x1	1.365	0.663	
20-735N	8	M16x1	1.443	0.741	
20-736N	10	M20x1	1.677	0.936	
20-737N	12	M22x1	1.872	1.014	

UNION ELBOW


Part #	Tube O.D. (mm)	A	Body Size	
20-738N	3	0.663	0.51	
20-206N	4	0.663	0.351	
20-739N	5	0.780	0.429	
20-660N	6	0.780	0.429	
20-661N	8	0.878	0.507	
20-807N	10	1.034	0.624	
20-808N	12	1.190	0.741	
20-740N	14	1.268	0.741	

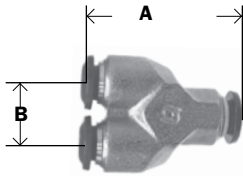
AN OBSTACLE IS OFTEN A STEPPING STONE.
- WILLIAM PRESCOTT

UNION TEE



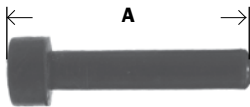
Part #	Tube O.D. (mm)	A	B	Body Size	
20-741N	3	1.326	0.663	0.351	
20-610N	4	1.326	0.663	0.351	
20-742N	5	1.560	0.780	0.429	
20-611N	6	1.638	0.819	0.429	
20-612N	8	1.755	0.878	0.507	
20-613N	10	2.067	1.034	0.624	
20-614N	12	2.379	1.190	0.741	
20-743N	14	2.379	2.535	0.741	

UNION Y



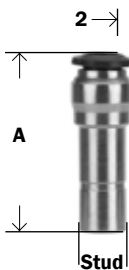
Part #	Tube O.D. (mm)	B	A	
20-744N	3	0.390	1.131	
20-813N	4	0.429	1.248	
20-745N	5	0.527	1.365	
20-814N	6	0.527	1.424	
20-815N	8	0.605	1.599	
20-746N	10	0.728	1.890	

PLUG



Part #	Tube O.D. (mm)	A	
20-748N	4	0.917	
20-749N	5	0.956	
20-750N	6	0.956	
20-751N	8	1.014	
20-752N	10	1.112	
20-753N	12	1.190	

REDUCER



Part #	Stud (mm)	Tube O.D. 2 (mm)	A	
20-754N	4	3	1.053	
20-755N	5	4	1.131	
20-756N	6	4	1.170	
20-757N	6	5	1.248	
20-758N	8	6	1.326	
20-759N	10	8	1.482	
20-760N	12	8	1.521	