

**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



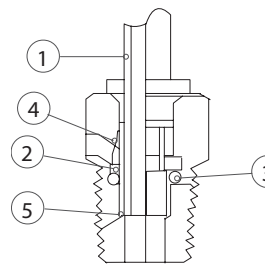
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# BRASS PUSH-IN FITTINGS



## 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 POLYTETRAFLUOROETHYLENE**® 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 Polytetrafluoroethylene® 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

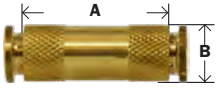
expands the insert. Pulling back on the tube only tightens the grip as the insert moves onto the camming surface (4). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (5) in a cavity providing tube support to prevent leakage.

### • Tolerance

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

**BRASS PUSH-IN FITTINGS**

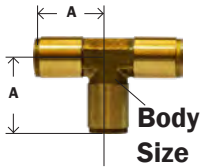
## BRASS FITTINGS

**UNION CONNECTOR**

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D.	MAF #	MAF PRICE
20017	02062-02	262PP-2		1/8"	MQ62-2	----
20018	02062-53	262PP-2.5		5/32"	MQ62-532	----
20019	02062-04	262PP-4		1/4"	MQ62-4	----
20022		262PP-64		3/8" x 1/4"	MQ62-64	----
20020	02062-06	262PP-6		3/8"	MQ62-6	----
20021	02062-08	262PP-8		1/2"	MQ62-8	----

AQ62P  
MQ62

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

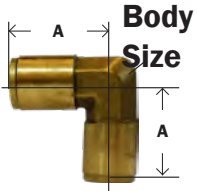
**UNION TEE**

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D.	MAF #	MAF PRICE
20025	02064-02	264PP-2		1/8"	MQ64-2	----
20026	02064-53	264PP-2.5		5/32"	MQ64-532	----
20027	02064-03	264PP-3		3/16"	MQ64-3	----
20028	02064-04	264PP-4		1/4"	MQ64-4	----
20031*		264PPNIC-5		5/16"	MQ64-5	----
20029	02064-06	264PP-6		3/8"	MQ64-6	----
20030	02064-08	264PP-8		1/2"	MQ64-8	----

AQ64P  
MQ64

\* Nickel Plated

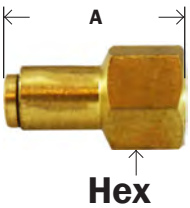
KQT 12-060 50-564 264OF 264PP 1164 AQ64 6540 3140 164PL

**UNION ELBOW**

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D.	MAF #	MAF PRICE
20150	02065-02	265PP-2		1/8"	MQ65-2	----
20151	02065-53	265PP-2.5		5/32"	MQ65-532	----
20152	02065-04	265PP-4		1/4"	MQ65-4	----
20155				5/16"	MQ65-5	----
20153	02065-06	265PP-6		3/8"	MQ65-6	----
20154	02065-08	265PP-8		1/2"	MQ65-8	----

AQ65P  
MQ65

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

**FEMALE CONNECTOR**

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X FEMALE NPTF	MAF #	MAF PRICE
20032	02066-0202	266PP-2A		1/8" x 1/8"	MQ66-22	----
20038				1/8" x 1/4"	MQ66-24	----
20012	02066-5302	266PP25A		5/32" x 1/8"	MQ66-5322	----
20034	02066-0402	266PP-4A		1/4" x 1/8"	MQ66-42	----
20035	02066-0404	266PP-4B		1/4" x 1/4"	MQ66-44	----
20036	02066-0604	266PP-6B		3/8" x 1/4"	MQ66-64	----
20037	02066-0606	266PP-6C		3/8" x 3/8"	MQ66-66	----

AQ66P

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

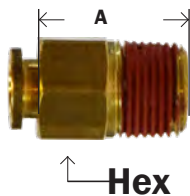
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# BRASS PUSH-IN FITTINGS

## BRASS FITTINGS

### MALE CONNECTOR



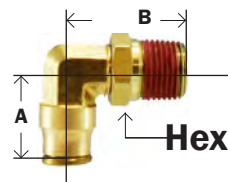
AQ68P  
MQ68

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20047*	02068-0200	268PP-2X1032		1/8" x 10-32"*	MQ68-20	----
20045	02068-0201	268PP-2X		1/8" x 1/16"	MQ68-21	----
20048	02068-0202	268PP-2A		1/8" x 1/8"	MQ68-22	----
20023	02068-0204	268PP-2B		1/8" x 1/4"	MQ68-24	----
20049*	02068-5300	268PP-2.5X1032		5/32" x 10-32"*	MQ68-5320	----
20050	02068-5302	268PP-2.5A		5/32" x 1/8"	MQ68-5322	----
20046	02068-5304	268PP-2.5B		5/32" x 1/4"	MQ68-5324	----
20051*	02068-0300	268PP-3X1032		3/16" x 10-32"*	MQ68-30	----
20052	02068-0302	268PP-3A		3/16" x 1/8"	MQ68-32	----
20053*	02068-0400	268PP-4X1032		1/4" x 10-32"*	MQ68-40	----
20039		268PP-4X		1/4" x 1/16"		----
20054	02068-0402	268PP-4A		1/4" x 1/8"	MQ68-42	----
20055	02068-0404	268PP-4B		1/4" x 1/4"	MQ68-44	----
20056	02068-0406	268PP-4C		1/4" x 3/8"	MQ68-46	----
20530	02068-0502			5/16" x 1/8"	MQ68-52	----
20531	02068-0504			5/16" x 1/4"	MQ68-54	----
20532				5/16" x 3/8"	MQ68-56	----
20057	02068-0602	268PP-6A		3/8" x 1/8"	MQ68-62	----
20058	02068-0604	268PP-6B		3/8" x 1/4"	MQ68-64	----
20059	02068-0606	268PP-6C		3/8" x 3/8"	MQ68-66	----
20062	02068-0608	268PP-6D		3/8" x 1/2"	MQ68-68	----
20060	02068-0804	268PP-8B		1/2" x 1/4"	MQ68-84	----
20061	02068-0806	268PP-8C		1/2" x 3/8"	MQ68-86	----
20063	02068-0808	268PP-8D		1/2" x 1/2"	MQ68-88	----

\* Furnished with gaskets

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

### SWIVEL MALE ELBOW



AQ69PS  
MQ69S

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20079	02169-0202	269PPS-2A		1/8" x 1/8"	MQ69S-22	----
20535*				1/8" x 1/4"	MQ69S-24	----
20076**	02169-5300	269PPS-2.5X1032		5/32" x 10-32"	MQ69S-5320	----
20080	02169-5302	269PPS-2.5A		5/32" x 1/8"	MQ69S-5322	----
20077	02169-5304	269PPS-2.5B		5/32" x 1/4"	MQ69S-5324	----
20078**	02169-0400	269PPS-4X1032		1/4" x 10-32"	MQ69S-40	----
20081	02169-0402	269PPS-4A		1/4" x 1/8"	MQ69S-42	----
20082	02169-0404	269PPS-4B		1/4" x 1/4"	MQ69S-44	----
20086	02169-0406	269PPS-4C		1/4" x 3/8"	MQ69S-46	----
20538*				5/16" x 1/4"	MQ69S-54	----
20539*				5/16" x 3/8"	MQ69S-56	----
20087	02169-0602	269PPS-6A		3/8" x 1/8"	MQ69S-62	----
20083	02169-0604	269PPS-6B		3/8" x 1/4"	MQ69S-64	----
20084	02169-0606	269PPS-6C		3/8" x 3/8"	MQ69S-66	----
20088	02169-0608	269PPS-6D		3/8" x 1/2"	MQ69S-68	----
20085	02169-0806	269PPS-8C		1/2" x 3/8"	MQ69S-86	----
20092	02169-0808	269PPS-8D		1/2" x 1/2"	MQ69S-88	----

\* Nickel Plated

\*\* Furnished with gaskets

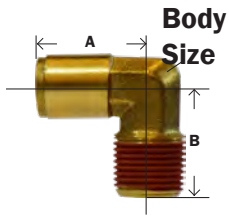
aq69-ps 56520 3109 169pl kql 12-447 50-579 269-OF5 11695

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**BRASS PUSH-IN FITTINGS**

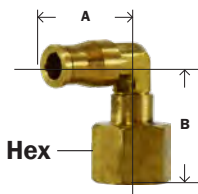
## BRASS FITTINGS

**FIXED MALE ELBOW**AQ69P  
MQ69

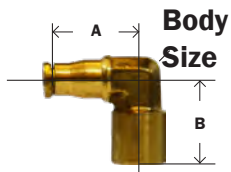
MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20065	02069-0202	269PP-2A		1/8" x 1/8"	MQ69-22	----
20066	02069-5302	269PP-2.5A		5/32" x 1/8"	MQ69-5322	----
20067	02069-0302	269PP-3A		3/16" x 1/8"	MQ69-32	----
20068	02069-0402	269PP-4A		1/4" x 1/8"	MQ69-42	----
20069	02069-0404	269PP-4B		1/4" x 1/4"	MQ69-44	----
20070	02069-0406	269PP-4C		1/4" x 3/8"	MQ69-46	----
20071	02069-0602	269PP-6A		3/8" x 1/8"	MQ69-62	----
20072	02069-0604	269PP-6B		3/8" x 1/4"	MQ69-64	----
20073	02069-0606	269PP-6C		3/8" x 3/8"	MQ69-66	----
20074	02069-0804	269PP-8B		1/2" x 1/4"	MQ69-84	----
20075	02069-0806	269PP-8C		1/2" x 3/8"	MQ69-86	----
20064	02069-0808	269PP-8D		1/2" x 1/2"	MQ69-88	----

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

Dimension data can change without notice. Please see our website when dimensions are critical.

**FEMALE SWIVEL ELBOW**AQ70PS  
MQ70S

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X FEMALE NPTF	MAF #	MAF PRICE
20094S		270PPS-25A		5/32" x 1/8"	MQ70S-5322	----
20089S	02170-0402	270PPS-4A		1/4" x 1/8"	MQ70S-42	----
20090S	02170-0404	270PPS-4B		1/4" x 1/4"	MQ70S-44	----
20091S	02170-0604	270PPS-6B		3/8" x 1/4"	MQ70S-64	----
	02170-0606			3/8" x 3/8"	MQ70S-66	
	02170-0806	270PPS-8C		1/2" x 3/8"	MQ70S-86	

**FEMALE ELBOW**AQ70P  
MQ70

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X FEMALE NPTF	MAF #	MAF PRICE
20192	02070-0202	270PP-2A		1/8" x 1/8"	MQ70-22	----
20094	02070-5302	270PP-2.5A		5/32" x 1/8"	MQ70-5322	----
20089	02070-0402	270PP-4A		1/4" x 1/8"	MQ70-42	----
20090	02070-0404	270PP-4B		1/4" x 1/4"	MQ70-44	----
20091	02070-0604	270PP-6B		3/8" x 1/4"	MQ70-64	----

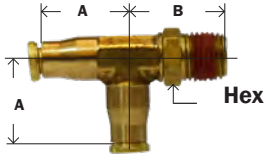
AQ70-P 3009

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# BRASS PUSH-IN FITTINGS

## BRASS FITTINGS

### SWIVEL MALE RUN TEE

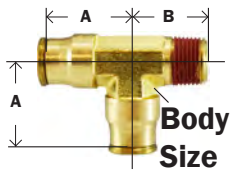


AQ71PS  
MQ71S

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20160	02171-0202	271PPS-2A		1/8" x 1/8"	MQ71S-22	----
20161	02171-5302	271PPS-2.5A		5/32" x 1/8"	MQ71S-5322	----
20162	02171-0402	271PPS-4A		1/4" x 1/8"	MQ71S-42	----
20163	02171-0404	271PPS-4B		1/4" x 1/4"	MQ71S-44	----
20164	02171-0604	271PPS-6B		3/8" x 1/4"	MQ71S-64	----
20165	02171-0606	271PPS-6C		3/8" x 3/8"	MQ71S-66	----
20174				1/2" x 1/4"		
20166	02171-0806	271PPS-8C		1/2" x 3/8"	MQ71S-86	----
20167	02171-0808	271PPS-8D		1/2" x 1/2"	MQ71S-88	----

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

### FIXED MALE RUN TEE

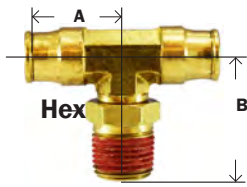


AQ71P  
MQ71

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20095	02071-0202	271PP-2A		1/8" x 1/8"	MQ71-22	----
20097	02071-0302			3/16" x 1/8"		
20098	02071-0402	271PP-4A		1/4" x 1/8"	MQ71-42	----
20093	02071-0404	271PP-4B		1/4" x 1/4"	MQ71-44	----
20099	02071-0602			3/8" x 1/8"		
20100	02071-0604	271PP-6B		3/8" x 1/4"	MQ71-64	----
20101	02071-0606	271PP-6C		3/8" x 3/8"	MQ71-66	----
20102	02071-0806			1/2" x 3/8"	MQ71-86	----

AQ71-P

### SWIVEL MALE BRANCH TEE

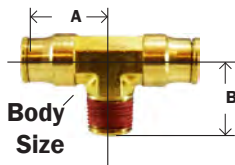


AQ72PS  
MQ72S

\* Furnished with gaskets

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20103	02172-0202	272PPS-2A		1/8" x 1/8"	MQ72S-22	----
20104*	02172-5300	272PPS-2.5A x 10.32		5/32" x 10-32"	MQ72S-5320	----
20109	02172-5302	272PPS-2.5A		5/32" x 1/8"	MQ72S-5322	----
20105	02172-0402	272PPS-4A		1/4" x 1/8"	MQ72S-42	----
20106	02172-0404	272PPS-4B		1/4" x 1/4"	MQ72S-44	----
20107	02172-0604	272PPS-6B		3/8" x 1/4"	MQ72S-64	----
20108	02172-0606	272PPS-6C		3/8" x 3/8"	MQ72S-64	----
20110	02172-0806	272PPS-8C		1/2" x 3/8"	MQ72S-86	----
20111	02172-0808	272PPS-8D		1/2" x 1/2"	MQ72S-88	----

### FIXED MALE BRANCH TEE



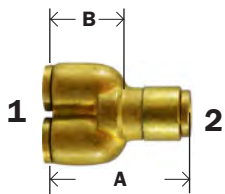
AQ72P  
MQ72

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X MALE NPTF	MAF #	MAF PRICE
20112	02072-0202			1/8" x 1/8"	MQ72-22	----
20113	02072-5302	272PP-2.5A		5/32" x 1/8"	MQ72-532	----
20115	02072-0402	272PP-4A		1/4" x 1/8"	MQ72-42	----
20116	02072-0404	272PP-4B		1/4" x 1/4"	MQ72-44	----
20117	02072-0602	272PP-6A		3/8" x 1/8"	MQ72-62	----
20118	02072-0604	272PP-6B		3/8" x 1/4"	MQ72-64	----
20119	02072-0606	272PP-6C		3/8" x 3/8"	MQ72-66	----
20120	02072-0806	272PP-8C		1/2" x 3/8"	MQ72-86	----

AQ72-P

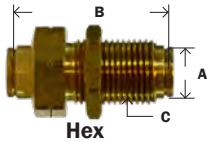
**BRASS PUSH-IN FITTINGS**

## BRASS FITTINGS

**UNION "Y"**

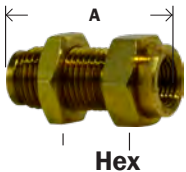
AQ89P

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. 1 X 2	MAF #	MAF PRICE
20551	02089-5353	289PP-2.5		5/32" x 5/32"	MQ89-532	----
20552	02089-0402			1/4" x 1/8"	MQ89-42	----
20553	02089-0404	289PP-4		1/4" x 1/4"	MQ89-44	----

**BULKHEAD UNION**AQ82P  
MQ82

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. A	MAF #	MAF PRICE
20124	02082-02	283PP-2		1/8"	MQ82-2	----
20125	02082-53	283PP-2.5		5/32"	MQ82-532	----
20126	02082-03			3/16"	MQ82-3	----
20127	02082-04	283PP-4		1/4"	MQ82-4	----
20128	02082-06	283PP-6		3/8"	MQ82-6	----
20129	02082-08	283PP-8		1/2"	MQ82-8	----

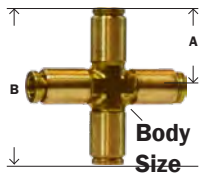
AQ82-P 6590 62PLBH KQE 12-029 50-582 282-OF 1174

**FEMALE BULKHEAD UNION**AQ86P  
MQ86

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. X FEMALE NPTF	MAF #	MAF PRICE
20170	02086-0402	287PP-4A		1/4" x 1/8"	MQ86-42	----
20171	02086-0404	287PP-4B		1/4" x 1/4"	MQ86-44	----
20172	02086-0604	287PP-6B		3/8" x 1/4"	MQ86-64	----

AQ86-P 1166BH

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

**CROSS**

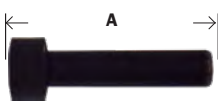
MIDLAND	AMC	CHAMPION	LIST	SIZE	MAF #	MAF PRICE
20142		252PP-4		1/4"	MQ52-4	----
20143		252PP-6		3/8"	MQ52-6	----

**REDUCER - NICKEL PLATED - TUBE OD X STUD**

MQ97

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D. 1 X 2	MAF #	MAF PRICE
20510		286PP-42		1/8" x 1/4"	MQ97-24	----
20511		286PP-42.5		5/32" x 1/4"	MQ97-5324	----
20512		286PP-64		1/4" x 3/8"	MQ97-46	----

67PPL 286PP

**PLASTIC PLUG**AQ59P  
MQ59

MIDLAND	AMC	CHAMPION	LIST	TUBE O.D.	MAF #	MAF PRICE
20009	02059-53	284PP-2.5		5/32"	MQ59-532	----
20010	02059-04	284PP-4		1/4"	MQ59-4	----
20011	02059-06	284PP-6		3/8"	MQ59-6	----
20013	02059-08	284PP-8		1/2"	MQ59-8	----

• Cored

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