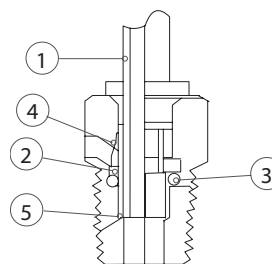


# BRASS PUSH-IN FITTINGS



## 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 PRESSURE**:  
The fitting is suitable for use up to the maximum working pressure of the plastic tubing used.
- **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.

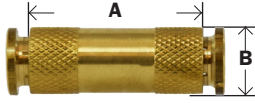
### • Tolerance

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

## BRASS FITTINGS

## BRASS PUSH-IN FITTINGS

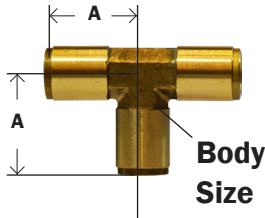
### UNION CONNECTOR



| Part # | Tube O.D.   | A    | B    | Approx. Wt. Lbs. | List Price |
|--------|-------------|------|------|------------------|------------|
| 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             | ----       |

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

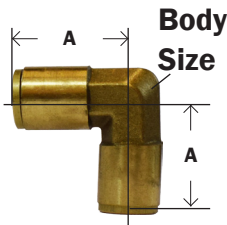
### UNION TEE



| Part # | Tube O.D. | A    | Body Size | Approx. Wt. Lbs. | List Price |
|--------|-----------|------|-----------|------------------|------------|
| 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             | ----       |

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

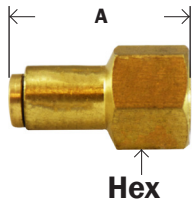
### UNION ELBOW



| Part # | Tube O.D. | A    | Body Size | Approx. Wt. Lbs. | List Price |
|--------|-----------|------|-----------|------------------|------------|
| 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             | ----       |

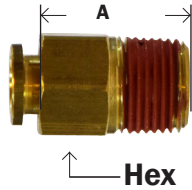
AQ65 6550 3102 165PL KQL 12-040 50-565 265-OF

### FEMALE CONNECTOR



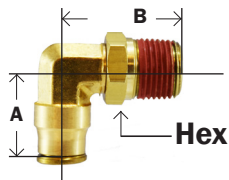
| Part # | Tube O.D.<br>x Female NPTF | A    | Hex  | Approx. Wt. Lbs. | List Price |
|--------|----------------------------|------|------|------------------|------------|
| 20-032 | 1/8" x 1/8"                | 0.96 | 0.56 | 0.04             | ----       |
| 20-038 | 1/8" x 1/4"                | 1.04 | 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             | ----       |

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

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

| Part # | Tube O.D.<br>x Male NPTF | A    | Hex  | Approx.<br>Wt. Lbs. | List Price |
|--------|--------------------------|------|------|---------------------|------------|
| 20-047 | 1/8" x 10-32"*           | 0.69 | 0.37 | 0.02                | ----       |
| 20-045 | 1/8" x 1/16"             | 0.68 | 0.37 | 0.02                | ----       |
| 20-048 | 1/8" x 1/8"              | 0.61 | 0.43 | 0.02                | ----       |
| 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                | ----       |
| 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                | ----       |
| 20-052 | 3/16" x 1/8"             | 0.93 | 0.43 | 0.03                | ----       |
| 20-053 | 1/4" x 10-32"*           | 0.70 | 0.43 | 0.03                | ----       |
| 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    268PP AQ68 6510 3115 68PL KQH 12-425 50-568 268-OF 1168

**SWIVEL MALE ELBOW**

| Part #   | Tube O.D.<br>x Male NPTF | A    | B    | Hex  | Approx.<br>Wt. Lbs. | List Price |
|----------|--------------------------|------|------|------|---------------------|------------|
| 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 | 0.68 | 0.18                | ----       |
| 20-092   | 1/2" x 1/2"              | 1.16 | 1.61 | 0.62 | 0.24                | ----       |

\* Nickel Plated

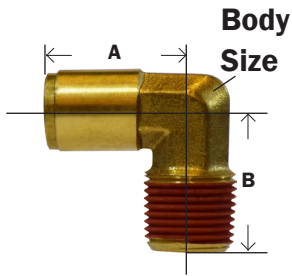
aq69-ps 56520 3109 169pl kql 12-447 50-579 269-OF5 11695

\*\* Furnished with gaskets

## BRASS FITTINGS

## BRASS PUSH-IN FITTINGS

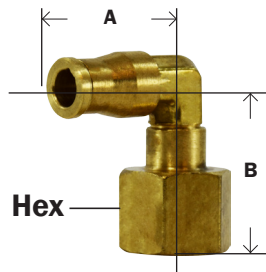
### FIXED MALE ELBOW



| Part # | Tube O.D.<br>x Male NPTF | A    | B    | Body<br>Size | Approx.<br>Wt. Lbs. | List Price |
|--------|--------------------------|------|------|--------------|---------------------|------------|
| 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                | ----       |

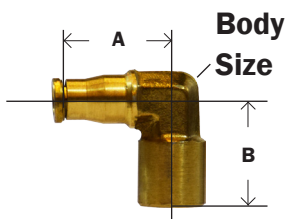
269PP AQ69-P 6500 169PLNS 12-445 1169

### FEMALE SWIVEL ELBOW



| Part #  | Tube O.D. x Female<br>NPTF | A    | B    | Hex  | List Price |
|---------|----------------------------|------|------|------|------------|
| 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 | ----       |

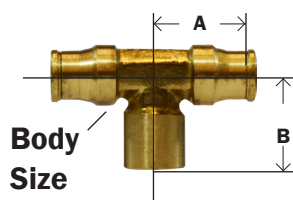
### FEMALE ELBOW



| Part # | Tube O.D. x<br>Female NPTF | A    | B    | Body<br>Size | Approx.<br>Wt. Lbs. | List Price |
|--------|----------------------------|------|------|--------------|---------------------|------------|
| 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                | ----       |

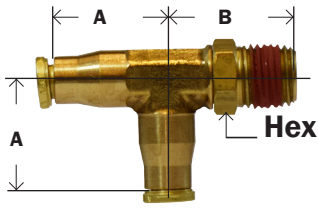
AQ70-P 3009

### FEMALE BRANCH TEE



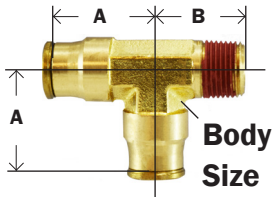
| Part # | Tube O.D. x<br>Female NPTF | A    | B    | Body<br>Size | Approx.<br>Wt. Lbs. | List Price |
|--------|----------------------------|------|------|--------------|---------------------|------------|
| 20-130 | 1/4" x 1/8"                | 0.89 | 0.75 | 0.43         | 0.06                | ----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

AQ77-P 3008 177PL

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

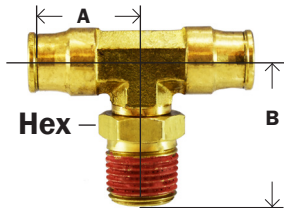
| Part # | Tube O.D. x Male NPTF | A    | B    | Hex  | Approx. Wt. Lbs. | List Price |
|--------|-----------------------|------|------|------|------------------|------------|
| 20-160 | 1/8" x 1/8"           | 0.65 | 0.86 | 0.43 | 0.08             | ----       |
| 20-161 | 5/32" x 1/8"          | 0.67 | 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             | ----       |

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

**FIXED MALE RUN TEE**

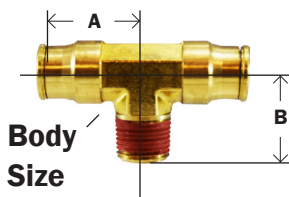
| Part # | Tube O.D. x Male NPTF | A    | B    | Body Size | Approx. Wt. Lbs. | List Price |
|--------|-----------------------|------|------|-----------|------------------|------------|
| 20-095 | 1/8" x 1/8"           | 0.65 | 0.72 | 0.31      | 0.04             | ----       |
| 20-097 | 3/16" x 1/8"          | 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             | ----       |

AQ71-P

**SWIVEL MALE BRANCH TEE**

| Part # | Tube O.D. x Male NPTF | A    | B    | Hex  | Approx. Wt. Lbs. | List Price |
|--------|-----------------------|------|------|------|------------------|------------|
| 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 | 0.55 | 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             | ----       |

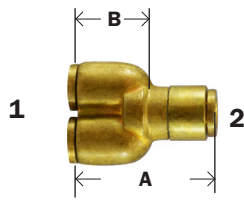
\* Furnished with gaskets

**FIXED MALE BRANCH TEE**

| Part # | Tube O.D. x Male NPTF | A    | B    | Body Size | Approx. Wt. Lbs. | List Price |
|--------|-----------------------|------|------|-----------|------------------|------------|
| 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             | ----       |

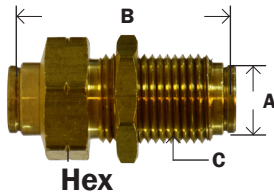
AQ72-P

## UNION "Y"



| Part # | Tube O.D.<br>1 X 2 | A    | B    | Approx.<br>Wt. Lbs. | List Price |
|--------|--------------------|------|------|---------------------|------------|
| 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                | ----       |

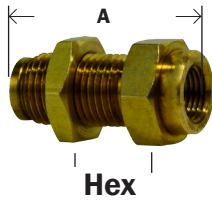
## BULKHEAD UNION



| Part # | Tube O.D.<br>A | B    | C        | Hex  | Approx.<br>Wt. Lbs. | List Price |
|--------|----------------|------|----------|------|---------------------|------------|
| 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                | ----       |

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

## FEMALE BULKHEAD UNION

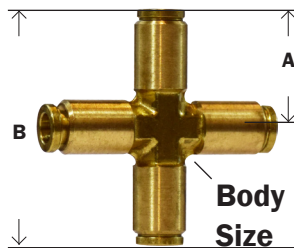


| Part # | Tube O.D. x<br>Female NPTF | A    | Hex  | Approx.<br>Wt. Lbs. | List Price |
|--------|----------------------------|------|------|---------------------|------------|
| 20-170 | 1/4" x 1/8"                | 1.19 | 0.68 | 0.08                | ----       |
| 20-171 | 1/4" x 1/4"           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

AQ86-P 1166BH

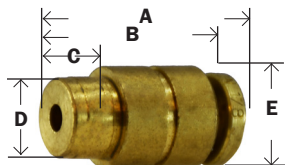
Dimension data can change without notice. Please call us when dimensions are critical.

## CROSS



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

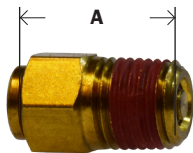


**BRASS PUSH-IN FITTINGS****BRASS FITTINGS****PRESS-IN CARTRIDGE**

| Part # | Tube O.D. | A    | B    | C    | D    | E    | List Price |
|--------|-----------|------|------|------|------|------|------------|
| 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 | ----       |

**QUICK DISCONNECT**

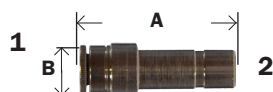
When tube is disconnected, flow shuts off automatically.



Hex ↗

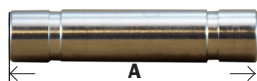
| Part # | Tube O.D. x Male NPTF | A    | Hex  | Approx. Wt. Lbs. | List Price |
|--------|-----------------------|------|------|------------------|------------|
| 20-133 | 1/4" x 1/8"           | 0.92 | 0.43 | 0.10             | ----       |
| 20-134 | 1/4" x 1/4"           | 0.92 | 0.56 | 0.12    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

AQ92-P 6500 169PLNS

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

| Part # | Tube O.D. 1 X 2 | A    | B    | Approx. Wt. Lbs. | List Price |
|--------|-----------------|------|------|------------------|------------|
| 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             | ----       |

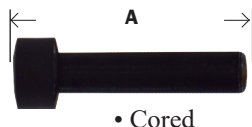
67PPL 286PP

**DOUBLE MALE UNION - NICKEL PLATED**

| Part # | Tube O.D. | A    | Approx. Wt. Lbs. | List Price |
|--------|-----------|------|------------------|------------|
| 20-004 | 1/8"      | 1.28 | 0.01             | ----       |
| 20-005 | 5/32"     | 1.28 | 0.01             | ----       |
| 20-006 | 1/4"      | 1.40 | 0.02             | ----       |
| 20-007 | 5/16"     | 1.59 | 0.02             | ----       |
| 20-008 | 3/8"      | 1.81 | 0.02             | ----       |
| 20-000 | 1/2"      | 1.89 | 0.03             | ----       |

( For polyurethane or other soft plastic tubing )

AQ34

**PLASTIC PLUG**

| Part # | Tube O.D. | A    | Approx. Wt. Lbs. | List Price |
|--------|-----------|------|------------------|------------|
| 20-009 | 5/32"     | 1.16 | 0.01             | ----       |
| 20-010 | 1/4"      | 1.40 | 0.01             | ----       |
| 20-011 | 3/8"      | 1.40 | 0.02             | ----       |
| 20-013 | 1/2"      | 1.50 | 0.02             | ----       |

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