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### Steel Pipe Fittings

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##### Pipe Fittings

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**A**

**P**

#### Pipe Fittings

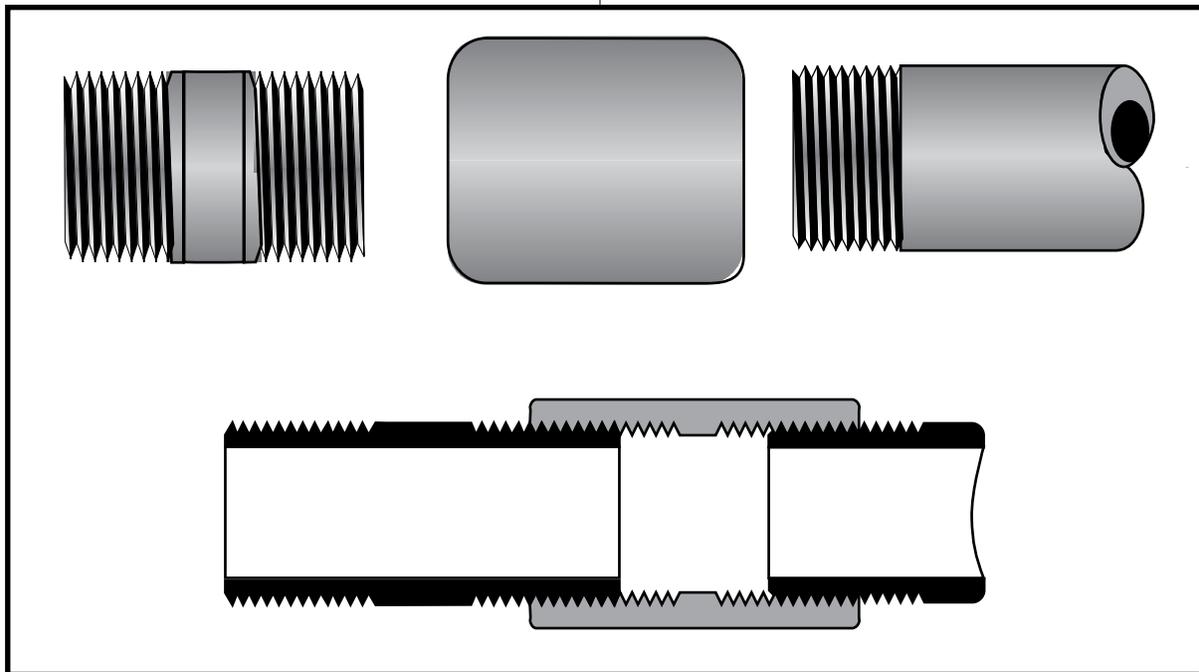
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- Fittings are clean, easy to work with and start.
- Will not crack under pressure.
- Tempered durable threads that will not strip easily.
- Will work up to 150 psi steam pressure.
- Accurately threaded to the American Standard Thread Gauge to ensure perfect alignment and correct branch angles.
- Openings are slightly tapered to permit easy entrance of the pipe.

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# IBS, INCORPORATED

## Pipe Fittings NPT N01

### Pipe Fittings - Malleable Iron

STEEL PIPE FITTINGS



#### 90° Elbows

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15030      | 25010      | 1/8   | 5       |
| 15031      | 25011      | 1/4   | 5       |
| 15032      | 25012      | 3/8   | 5       |
| 15033      | 25013      | 1/2   | 5       |
| 15034      | 25014      | 3/4   | 3       |
| 15035      | 25015      | 1     | 1       |
| 15036      | 25016      | 1-1/4 | 1       |
| 15215      | 25017      | 1-1/2 | 1       |
| 15216      | 25018      | 2     | 1       |



#### 45° Elbows

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15038      | 25020      | 1/8   | 5       |
| 15039      | 25021      | 1/4   | 5       |
| 15040      | 25022      | 3/8   | 5       |
| 15041      | 25023      | 1/2   | 5       |
| 15042      | 25024      | 3/4   | 3       |
| 15043      | 25025      | 1     | 1       |
| 15044      | 25026      | 1-1/4 | 1       |
| 15220      | 25027      | 1-1/2 | 1       |
| 15221      | 25028      | 2     | 1       |



#### Bell Reducers

| IBS No.    |            | Size          | Pkg Qty |
|------------|------------|---------------|---------|
| Black Iron | Galvanized |               |         |
| 15090      | 25060      | 1/4 x 1/8     | 5       |
| 15091      | 25061      | 3/8 x 1/8     | 5       |
| 15092      | 25062      | 3/8 x 1/4     | 5       |
| 15093      | 25063      | 1/2 x 1/8     | 5       |
| 15094      | 25064      | 1/2 x 1/4     | 5       |
| 15095      | 25065      | 1/2 x 3/8     | 5       |
| 15096      | 25066      | 3/4 x 1/8     | 3       |
| 15097      | 25067      | 3/4 x 1/4     | 3       |
| 15098      | 25068      | 3/4 x 3/8     | 3       |
| 15099      | 25069      | 3/4 x 1/2     | 3       |
| 15100      | 25070      | 1 x 1/4       | 1       |
| 15101      | 25071      | 1 x 3/8       | 1       |
| 15102      | 25072      | 1 x 1/2       | 1       |
| 15103      | 25073      | 1 x 3/4       | 1       |
| 15241      | 25074      | 1-1/4 x 1/2   | 1       |
| 15242      | 25075      | 1-1/4 x 3/4   | 1       |
| 15243      | 25076      | 1-1/4 x 1     | 1       |
| 15244      | 25077      | 1-1/2 x 1/2   | 1       |
| 15245      | 25078      | 1-1/2 x 3/4   | 1       |
| 15246      | 25079      | 1-1/2 x 1     | 1       |
| 15247      | 25080      | 1-1/2 x 1-1/4 | 1       |
| 15248      | 25081      | 2 x 3/4       | 1       |
| 15249      | 25082      | 2 x 1         | 1       |
| 15250      | 25083      | 2 x 1-1/4     | 1       |
| 15251      | 25084      | 2 x 1-1/2     | 1       |



#### 90° Street Elbows

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15060      | 25040      | 1/8   | 5       |
| 15061      | 25041      | 1/4   | 5       |
| 15062      | 25042      | 3/8   | 5       |
| 15063      | 25043      | 1/2   | 5       |
| 15064      | 25044      | 3/4   | 3       |
| 15065      | 25045      | 1     | 1       |
| 15230      | 25046      | 1-1/4 | 1       |
| 15231      | 25047      | 1-1/2 | 1       |
| 15232      | 25048      | 2     | 1       |



#### 45° Street Elbows

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15068      | 25050      | 1/8   | 5       |
| 15069      | 25051      | 1/4   | 5       |
| 15070      | 25052      | 3/8   | 5       |
| 15071      | 25053      | 1/2   | 5       |
| 15072      | 25054      | 3/4   | 3       |
| 15073      | 25055      | 1     | 1       |
| 15235      | 25056      | 1-1/4 | 1       |
| 15236      | 25057      | 1-1/2 | 1       |
| 15237      | 25058      | 2     | 1       |



#### Couplings

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15024      | 25000      | 1/8   | 5       |
| 15025      | 25001      | 1/4   | 5       |
| 15026      | 25002      | 3/8   | 5       |
| 15027      | 25003      | 1/2   | 5       |
| 15028      | 25004      | 3/4   | 3       |
| 15029      | 25005      | 1     | 1       |
| 15029A     | 25006      | 1-1/4 | 1       |
| 15210      | 25007      | 1-1/2 | 1       |
| 15029C     | 25008      | 2     | 1       |



#### Pipe Tee

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15046      | 25030      | 1/8   | 5       |
| 15047      | 25031      | 1/4   | 5       |
| 15048      | 25032      | 3/8   | 5       |
| 15049      | 25033      | 1/2   | 5       |
| 15050      | 25034      | 3/4   | 3       |
| 15051      | 25035      | 1     | 1       |
| 15052      | 25036      | 1-1/4 | 1       |
| 15225      | 25037      | 1-1/2 | 1       |
| 15226      | 25038      | 2     | 1       |



#### Hex Bushings

| IBS No.    |            | Size          | Pkg Qty |
|------------|------------|---------------|---------|
| Black Iron | Galvanized |               |         |
| 15088      | 25099      | 1-1/4 x 1/2   | 1       |
| 15089      | 25100      | 1-1/4 x 3/4   | 1       |
| 15089A     | 25101      | 1-1/4 x 1     | 1       |
| 15260      | 25102      | 1-1/2 x 1/2   | 1       |
| 15261      | 25103      | 1-1/2 x 3/4   | 1       |
| 15262      | 25104      | 1-1/2 x 1     | 1       |
| 15263      | 25105      | 1-1/2 x 1-1/4 | 1       |
| 15264      | 25106      | 2 x 3/4       | 1       |
| 15265      | 25107      | 2 x 1         | 1       |
| 15266      | 25108      | 2 x 1-1/4     | 1       |
| 15267      | 25109      | 2 x 1-1/2     | 1       |





### Pipe Fittings - Malleable Iron



**Square Head Plugs**

| IBS No.    | Size  | Pkg Qty |
|------------|-------|---------|
| Black Iron |       |         |
| 15175      | 1/8   | 5       |
| 15176      | 1/4   | 5       |
| 15177      | 3/8   | 5       |
| 15178      | 1/2   | 5       |
| 15179      | 3/4   | 3       |
| 15185      | 1     | 1       |
| 15185A     | 1-1/4 | 1       |
| 15255      | 1-1/2 | 1       |
| 15256      | 2     | 1       |



**Pipe Caps**

| IBS No.    |            | Size  | Pkg Qty |
|------------|------------|-------|---------|
| Black Iron | Galvanized |       |         |
| 15058      | 25115      | 1     | 1       |
| 15059      | 25116      | 1-1/4 | 1       |
| 15270      | 25117      | 1-1/2 | 1       |
| 15271      | 25118      | 2     | 1       |



**Ground Joint Unions**

| IBS No. | Size | Pkg Qty |
|---------|------|---------|
| 151951  | 1/4  | 5       |
| 151952  | 3/8  | 5       |
| 15196   | 1/2  | 5       |
| 15197   | 3/4  | 3       |
| 151971  | 1    | 1       |

### Pipe Fittings - Steel



**Hex Bushings**

| IBS No. | Size      | Pkg Qty |
|---------|-----------|---------|
| 15074   | 1/4 x 1/8 | 5       |
| 15075   | 3/8 x 1/8 | 5       |
| 15076   | 3/8 x 1/4 | 5       |
| 15077   | 1/2 x 1/8 | 5       |
| 15078   | 1/2 x 1/4 | 5       |
| 15079   | 1/2 x 3/8 | 5       |
| 15080   | 3/4 x 1/8 | 3       |
| 15081   | 3/4 x 1/4 | 3       |
| 15082   | 3/4 x 3/8 | 3       |
| 15083   | 3/4 x 1/2 | 3       |
| 15084   | 1 x 1/4   | 1       |
| 15085   | 1 x 3/8   | 1       |
| 15086   | 1 x 1/2   | 1       |
| 15087   | 1 x 3/4   | 1       |



**Hex Plugs**

| IBS No.     | Size | Pkg Qty |
|-------------|------|---------|
| Zinc Plated |      |         |
| 15018       | 1/8  | 5       |
| 15019       | 1/4  | 5       |
| 15020       | 3/8  | 5       |
| 15021       | 1/2  | 5       |
| 15022       | 3/4  | 3       |
| 15023       | 1    | 1       |



**Square Head Plugs**

| IBS No.     | Size  | Pkg Qty |
|-------------|-------|---------|
| Zinc Plated |       |         |
| 15180       | 1/8   | 5       |
| 15181       | 1/4   | 5       |
| 15182       | 3/8   | 5       |
| 15183       | 1/2   | 5       |
| 15184       | 3/4   | 3       |
| —           | 1     | 1       |
| —           | 1-1/4 | 1       |
| —           | 1-1/2 | 1       |
| —           | 2     | 1       |



**Socket Head Plugs**

| IBS No.     | Size | Pkg Qty |
|-------------|------|---------|
| Zinc Plated |      |         |
| 15190       | 1/8  | 5       |
| 15191       | 1/4  | 5       |
| 15192       | 3/8  | 5       |
| 15193       | 1/2  | 5       |
| 15194       | 3/4  | 3       |
| 15195       | 1    | 1       |



**Pipe Caps**

| IBS No. | Size | Pkg Qty |
|---------|------|---------|
| Steel   |      |         |
| 15053   | 1/8  | 5       |
| 15054   | 1/4  | 5       |
| 15055   | 3/8  | 5       |
| 15056   | 1/2  | 5       |
| 15057   | 3/4  | 5       |
| 15057A  | 1    | 5       |



**Merchant Couplings**

| IBS No. | Size  | Pkg Qty |
|---------|-------|---------|
| 15201   | 1/8   | 5       |
| 15202   | 1/4   | 5       |
| 15203   | 3/8   | 5       |
| 15204   | 1/2   | 5       |
| 15205   | 3/4   | 3       |
| 15206   | 1     | 1       |
| 15207   | 1-1/4 | 1       |
| 15208   | 1-1/2 | 1       |
| 15209   | 2     | 1       |

**S T E E L P I P E F I T T I N G S**



# IBS, INCORPORATED

## Pipe Fittings NPT Steel - 150 lb N01

### Black Welded Steel Nipples - SCH 40



| Length | MPT Size |       |       |       | Pkg Qty | MPT Size |       |       |       |       | Pkg Qty | Length |
|--------|----------|-------|-------|-------|---------|----------|-------|-------|-------|-------|---------|--------|
|        | 1/8      | 1/4   | 3/8   | 1/2   |         | 3/4      | 1     | 1-1/4 | 1-1/2 | 2     |         |        |
| Close  | 15105    | 15115 | 15126 | 15135 | 5       | 15146    | 15157 | 15200 | 15315 | 15350 | 1       | Close  |
| 1-1/2  | 15106    | 15116 | 15127 | 15136 | 5       | 15147    |       |       |       |       | 1       | 1-1/2  |
| 2      | 15107    | 15117 | 15128 | 15137 | 5       | 15148    | 15158 | 15300 | 15316 |       | 1       | 2      |
| 2-1/2  | 15108    | 15118 | 15129 | 15138 | 5       | 15149    | 15159 | 15301 | 15317 | 15351 | 1       | 2-1/2  |
| 3      | 15109    | 15119 | 15130 | 15139 | 5       | 15150    | 15160 | 15302 | 15318 | 15352 | 1       | 3      |
| 3-1/2  | 15110    | 15120 | 15131 | 15140 | 5       | 15151    | 15161 | 15303 | 15319 | 15353 | 1       | 3-1/2  |
| 4      | 15111    | 15121 | 15186 | 15141 | 5       | 15152    | 15170 | 15304 | 15320 | 15354 | 1       | 4      |
| 4-1/2  |          | 15122 | 15187 | 15242 | 5       | 15153    | 15171 | 15305 | 15321 | 15355 | 1       | 4-1/2  |
| 5      | 15112    | 15123 | 15132 | 15143 | 5       | 15154    | 15172 | 15306 | 15322 | 15356 | 1       | 5      |
| 5-1/2  | 15112A   | 15124 | 15133 | 15144 | 5       | 15155    | 15173 | 15307 | 15323 | 15357 | 1       | 5-1/2  |
| 6      | 15113    | 15125 | 15134 | 15145 | 5       | 15156    | 15174 | 15308 | 15324 | 15358 | 1       | 6      |
| 10     |          |       |       | 15198 | 5       |          |       |       |       |       |         | 10     |

### Galvanized Steel Nipples (N02)



| Length | MPT Size |       |       |       | Pkg Qty | MPT Size |       |       |       |       | Pkg Qty | Length |
|--------|----------|-------|-------|-------|---------|----------|-------|-------|-------|-------|---------|--------|
|        | 1/8      | 1/4   | 3/8   | 1/2   |         | 3/4      | 1     | 1-1/4 | 1-1/2 | 2     |         |        |
| Close  | 25130    | 25145 | 25160 | 25175 | 5       | 25190    | 25205 | 25220 | 25230 | 25240 | 1       | Close  |
| 1-1/2  | 25131    | 25146 | 25161 | 25176 | 5       | 25191    |       |       |       |       | 1       | 1-1/2  |
| 2      | 25132    | 25147 | 25162 | 25177 | 5       | 25192    | 25206 | 25221 | 25231 |       | 1       | 2      |
| 2-1/2  | 25133    | 25148 | 25163 | 25178 | 5       | 25193    | 25207 | 25222 | 25232 | 25241 | 1       | 2-1/2  |
| 3      | 25134    | 25149 | 25164 | 25179 | 5       | 25194    | 25208 | 25223 | 25233 | 25242 | 1       | 3      |
| 3-1/2  | 25135    | 25150 | 25165 | 25180 | 5       | 25195    | 25209 | 25224 | 25234 | 25243 | 1       | 3-1/2  |
| 4      | 25136    | 25151 | 25166 | 25181 | 5       | 25196    | 25210 | 25225 | 25235 | 25244 | 1       | 4      |
| 4-1/2  | 25137    | 25152 | 25167 | 25182 | 5       | 25197    | 25211 | 25226 | 25236 | 25245 | 1       | 4-1/2  |
| 5      | 25138    | 25153 | 25168 | 25183 | 5       | 25198    | 25212 | 25227 | 25237 | 25246 | 1       | 5      |
| 5-1/2  | 25139    | 25154 | 25169 | 25184 | 5       | 25199    | 25213 | 25228 | 25238 | 25247 | 1       | 5-1/2  |
| 6      | 25140    | 25155 | 25170 | 25185 | 5       | 25200    | 25214 | 25229 | 25239 | 25248 | 1       | 6      |

### Black Extra-Heavy Nipples - SCH 80 (N03)



| Length | MPT Size |       |       |       | Pkg Qty | MPT Size |       |       |       |       | Pkg Qty | Length |
|--------|----------|-------|-------|-------|---------|----------|-------|-------|-------|-------|---------|--------|
|        | 1/8      | 1/4   | 3/8   | 1/2   |         | 3/4      | 1     | 1-1/4 | 1-1/2 | 2     |         |        |
| Close  | 35130    | 35145 | 35160 | 35175 | 5       | 35190    | 35205 | 35220 | 35230 | 35240 | 1       | Close  |
| 1-1/2  | 35131    | 35146 | 35161 | 35176 | 5       | 35191    |       |       |       |       | 1       | 1-1/2  |
| 2      | 35132    | 35147 | 35162 | 35177 | 5       | 35192    | 35206 | 35221 | 35231 |       | 1       | 2      |
| 2-1/2  | 35133    | 35148 | 35163 | 35178 | 5       | 35193    | 35207 | 35222 | 35232 | 35241 | 1       | 2-1/2  |
| 3      | 35134    | 35149 | 35164 | 35179 | 5       | 35194    | 35208 | 35223 | 35233 | 35242 | 1       | 3      |

STEEL PIPE FITTINGS



# IBS, INCORPORATED

## Assortments Z02 & Z06



### Steel Pipe Fittings (Z02)

IBS No. 139R • 30 ITEMS - 64

PIECES

Arranged in a 32 compartment metal drawer



| IBS Inc.   |  |  |   |  |                                      | Steel Pipe Fittings                      |  |
|--|--|--|---|--|--------------------------------------|--|--|
| INDUSTRIAL PARTS LTD. 11410 14th Street S.E. Everett, WA 98203 |  |  |   |  |                                      | Assortment No. 139R                      |  |
| 15021<br>1/2 HEX PLUG<br>NPT ZP                                | 15071<br>1/2 4SDGR ST.<br>ELB 150+ NPT BMT | 15063<br>1/2 90DGR ST.<br>ELB 150+ NPT BMT | 15027<br>1/2 COUPLER<br>150+ NPT RMT    | 15138<br>1/2 X CLOSE (1-<br>1/8) BLACK     | 15136<br>1/2 X 1-1/2<br>BLACK NIPPLE | 15077<br>3/8 X 1/8 HEX<br>BUSHING NPT ZP |  |
| 15020<br>3/8 HEX PLUG<br>NPT ZP                                | 15070<br>3/8 4SDGR ST.<br>ELB 150+ NPT BMT | 15062<br>3/8 90DGR ST.<br>ELB 150+ NPT BMT | 15026<br>3/8 COUPLER<br>150+ NPT RMT    | 15126<br>3/8 X CLOSE (1)<br>BLACK NIPPLE   | 15127<br>3/8 X 1-1/2<br>BLACK NIPPLE | 15076<br>3/8 X 1/4 HEX<br>BUSHING NPT ZP |  |
| 15019<br>1/4 HEX PLUG<br>NPT ZP                                | 15069<br>1/4 4SDGR ST.<br>ELB 150+ NPT BMT | 15061<br>1/4 90DGR ST.<br>ELB 150+ NPT BMT | 15025<br>1/4 COUPLER<br>150+ NPT RMT    | 15115<br>1/4 X CLOSE (7/8)<br>BLACK NIPPLE | 15116<br>1/4 X 1-1/2<br>BLACK NIPPLE | 15078<br>3/8 X 1/8 HEX<br>BUSHING NPT ZP | 15079<br>1/2 X 3/8 HEX<br>BUSHING NPT ZP |
| 15018<br>1/8 HEX PLUG<br>NPT ZP                                | 15068<br>1/8 4SDGR ST.<br>ELB 150+ NPT BMT | 15060<br>1/8 90DGR ST.<br>ELB 150+ NPT BMT | 15021<br>1/8 COUPLER<br>BLACK NPT STEEL | 15108<br>1/8 X CLOSE (3/4)<br>BLACK NIPPLE | 15106<br>1/8 X 1-1/2<br>BLACK NIPPLE | 15074<br>1/4 X 1/8 HEX<br>BUSHING NPT ZP | 15078<br>1/2 X 1/4 HEX<br>BUSHING NPT ZP |

### Black Malleable Iron Pipe Fittings (Z06)

IBS No. 157P • 40 ITEMS  
- 138 PIECES

Arranged in a 40 compartment metal bin



|                                |                                |                                |                                   |                                |                           |                             |                           |
|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|--------------------------------|---------------------------|-----------------------------|---------------------------|
| 1/4 x 1/8 Hex Bushing<br>15074 | 3/8 x 1/4 Hex Bushing<br>15076 | 1/2 x 1/4 Hex Bushing<br>15078 | 1/2 x 3/8 Hex Bushing<br>15079    | 3/4 x 1/2 Hex Bushing<br>15083 | 1/4 Tee<br>15047          | 3/8 Tee<br>15048            | 1/2 Tee<br>15049          |
| 1/8 Elbow<br>15030             | 1/4 Elbow<br>15031             | 3/8 Elbow<br>15032             | 1/2 Elbow<br>15033                | 1/8 Street Elbow<br>15060      | 1/4 Street Elbow<br>15061 | 3/8 Street Elbow<br>15062   | 1/2 Street Elbow<br>15063 |
| 1/4 x 1/8 Reducer<br>15090     | 3/8 x 1/4 Reducer<br>15092     | 1/2 x 3/8 Reducer<br>15095     | 3/4 x 1/2 Reducer<br>15099        | 1/8 Coupling<br>15201          | 1/4 Coupling<br>15202     | 3/8 Coupling<br>15203       | 1/2 Coupling<br>15204     |
| 1/8 Plug<br>15018              | 1/4 Plug<br>15019              | 3/8 Plug<br>15020              | 1/2 Plug<br>15021                 | 3/4 Plug<br>15022              | 1/8 Close Nipple<br>15105 | 1/8 x 1-1/2 Nipple<br>15106 | 1/4 Nipple<br>15115       |
| 1/4 x 1-1/2 Nipple<br>15116    | 1/4 x 2 Nipple<br>15117        | 3/8 Close Nipple<br>15126      | 3/8 x 1-1/2 Close Nipple<br>15127 | 3/8 x 2 Nipple<br>15128        | 1/2 Nipple<br>15135       | 1/2 x 2 Nipple<br>15137     | 1/2 x 3 Nipple<br>15139   |

### Steel & Iron Pipe Fittings (Z06)

IBS No. 151S • 40 Items - 295 Pieces

Arranged in an 18 drawer cabinet



Close Nipples

1/8" through 1/2"

Long Nipples

1/8" through 1/2" x 1 1/2" long

Hex Bushings Bell Reducers

1/4" x 1/8"  
3/8" x 1/8"  
3/8" x 1/4"  
1/2" x 1/4"  
1/2" x 3/8"

1/4" x 1/8"  
3/8" x 1/4"  
1/2" x 3/8"

Hex Head Plugs

1/8" through 1/2"

Couplings

1/8" through 1/2"

90° Street Elbows

1/8" through 1/2"

Caps

1/8" through 1/2"

Tees

1/8" through 1/2"

90° Elbows

1/8" through 1/2"



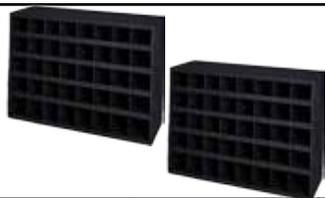
# IBS, INCORPORATED

## Assortments Z06

### Black Malleable Iron Pipe Fittings

IBS No. 154P • 72 Items - 349 Pieces

Arranged in a (2) 40 hole metal bins



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I  
T  
T  
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|   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| 1/8<br>Hex<br>Plug<br><b>15018</b>            | 1/4<br>Hex<br>Plug<br><b>15019</b>               | 3/8<br>Hex<br>Plug<br><b>15020</b>               | 1/2<br>Hex<br>Plug<br><b>15021</b>               | 3/4<br>Hex<br>Plug<br><b>15022</b>               | 1"<br>Hex<br>Plug<br><b>15023</b>                | 1/8<br>Tee<br><b>15046</b>                   | 1/4<br>Tee<br><b>15047</b>                   |
| 1/8<br>Coupler<br><b>15024</b>                | 1/4<br>Coupler<br><b>15025</b>                   | 3/8<br>Coupler<br><b>15026</b>                   | 1/2<br>Coupler<br><b>15027</b>                   | 3/4<br>Coupler<br><b>15028</b>                   | 1"<br>Coupler<br><b>15029</b>                    | 3/8<br>Tee<br><b>15048</b>                   | 1/2<br>Tee<br><b>15049</b>                   |
| 1/8<br>90° Elbow<br><b>15030</b>              | 1/4<br>90°<br>Elbow<br><b>15031</b>              | 3/8<br>90°<br>Elbow<br><b>15032</b>              | 1/2<br>90°<br>Elbow<br><b>15033</b>              | 3/4<br>90°<br>Elbow<br><b>15034</b>              | 1"<br>90°<br>Elbow<br><b>15035</b>               | 3/4<br>Tee<br><b>15050</b>                   | 1"<br>Tee<br><b>15051</b>                    |
| 1/8<br>90° Strt<br>Elbow<br><b>15060</b>      | 1/4<br>90° Strt<br>Elbow<br><b>15061</b>         | 3/8<br>90° Strt<br>Elbow<br><b>15062</b>         | 1/2<br>90° Strt<br>Elbow<br><b>15063</b>         | 3/4<br>90° Strt<br>Elbow<br><b>15064</b>         | 1"<br>90° Strt<br>Elbow<br><b>15065</b>          | 1/8<br>Cap<br><b>15053</b>                   | 1/4<br>Cap<br><b>15054</b>                   |
| <b>OVER<br/>STOCK</b>                         | <b>OVER<br/>STOCK</b>                            | <b>OVER<br/>STOCK</b>                            | <b>OVER<br/>STOCK</b>                            | <b>OVER<br/>STOCK</b>                            | <b>OVER<br/>STOCK</b>                            | <b>OVER<br/>STOCK</b>                        | <b>OVER<br/>STOCK</b>                        |
| 1/4 x 1/8<br>Hex Bush-<br>ing<br><b>15074</b> | 3/8 x 1/8<br>Hex<br>Bush-<br>ing<br><b>15075</b> | 3/8 x 1/8<br>Hex<br>Bush-<br>ing<br><b>15076</b> | 1/2 x 1/8<br>Hex<br>Bush-<br>ing<br><b>15077</b> | 1/2 x 1/4<br>Hex<br>Bush-<br>ing<br><b>15078</b> | 1/2 x 3/8<br>Hex<br>Bush-<br>ing<br><b>15079</b> | 3/8<br>Cap<br><b>15055</b>                   | 1/2"<br>Cap<br><b>15056</b>                  |
| 3/4 x 1/4<br>Hex Bush-<br>ing<br><b>15081</b> | 3/4 x 3/8<br>Hex<br>Bush-<br>ing<br><b>15082</b> | 3/4 x 1/2<br>Hex<br>Bush-<br>ing<br><b>15083</b> | 1 x 3/8<br>Hex<br>Bush-<br>ing<br><b>15085</b>   | 1 x 1/2<br>Hex<br>Bush-<br>ing<br><b>15086</b>   | 1 x 3/4<br>Hex<br>Bush-<br>ing<br><b>15087</b>   | 3/8<br>Cap<br><b>15057</b>                   | 1"<br>Cap<br><b>15058</b>                    |
| 1/8<br>Close<br>Nipple<br><b>15105</b>        | 1/4<br>Close<br>Nipple<br><b>15115</b>           | 3/8<br>Close<br>Nipple<br><b>15126</b>           | 1/2<br>Close<br>Nipple<br><b>15135</b>           | 3/4<br>Close<br>Nipple<br><b>15146</b>           | 1/8x1-1/2<br>Black<br>Nipple<br><b>15106</b>     | 1/4x1-1/2<br>Black<br>Nipple<br><b>15116</b> | 3/8x1-1/2<br>Black<br>Nipple<br><b>15127</b> |
| 1/2 x 1-1/2<br>Nipple<br><b>15136</b>         | 3/8 x 2<br>Nipple<br><b>15128</b>                | 1/2 x 2<br>Nipple<br><b>15137</b>                | 3/4 x 2<br>Nipple<br><b>15148</b>                | 1 x 2<br>Nipple<br><b>15158</b>                  | 3/4 x 2-1/2<br>Nipple<br><b>15149</b>            | 1 x 2-1/2<br>Nipple<br><b>15159</b>          | 1/4 x 1/8<br>Bell<br>Reducer<br><b>15090</b> |
| 3/8 x 1/4<br>Bell<br>Reducer<br><b>15092</b>  | 1/2 x 1/8<br>Bell<br>Reducer<br><b>15093</b>     | 1/2 x 1/4<br>Bell<br>Reducer<br><b>15094</b>     | 1/2 x 3/8<br>Bell<br>Reducer<br><b>15095</b>     | 3/4 x 3/8<br>Bell<br>Reducer<br><b>15098</b>     | 3/4 x 1/2<br>Bell<br>Reducer<br><b>15099</b>     | 1 x 1/2<br>Bell<br>Reducer<br><b>15102</b>   | 1 x 3/4<br>Bell<br>Reducer<br><b>15103</b>   |





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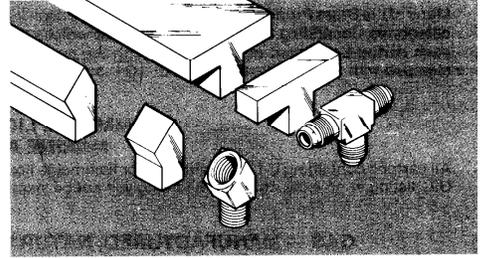


# IBS, INCORPORATED

## Brass Facts

### Manufacturing of Extruded Fittings

Hexagon, round and shaped bars are extruded in the configuration required, drawn to size, cut to length and straightened. First a solid round billet (8 to 12 inches in diameter) is heated to the pliable state and forced by pressure of approximately 80,000 pounds per square inch through a die. The resulting continuous length of bar is cooled and then drawn through dies to the desired external size. (The drawing process also controls the temper.) After straightening, the bar is ready for machining.



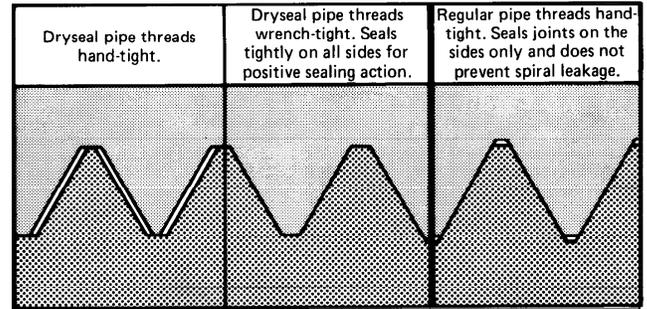
The process produces a dense, nonporous material somewhat stronger in the longitudinal direction due to an orientated flow of the grain.

### Dryseal Pipe Threads

Pipe threads are made to the Dryseal USA (American) - Standard Taper Pipe Thread\* standard, known as the NPTF. Dryseal pipe threads, unlike other types of threads, seal joints pressure tight.

The Dryseal pipe thread roots are wider than the crests. When the threads are wrench-tight, the roots crush the sharper crests of the mating threads. This forms a metal-to-metal seal. Dryseal threads improve sealing characteristics but a thread sealant is recommended.

\*Formerly Dryseal American (National Standard.)



### Numbering System

Fittings are identified by a series of numbers separated by the letter 'x'.

- A** The number preceding the 'x' indicates the type of fitting. See table 1 below for additional data.
- B** The second number is the tube and/or pipe size in sixteenths of an inch. When a pipe thread for a given tube size follows the SAE (Society of Automotive Engineers) standard as shown in Table 2, no other number is required. Example: 48x6 = SAE 45° Flare Male Connector - 3/8" tube, 1/4" male pipe.
- C** If the pipe size is not to the SAE Standard, another 'x' is added followed by the pipe size indicated in sixteenths of an inch. Example: 1/8" is equal to 2/16" or x2 suffix.

TABLE 1

| Type               | Example MALE Connector | Example FEMALE Connector |
|--------------------|------------------------|--------------------------|
| 45° Flare          | 48                     | 46                       |
| Compression        | 68                     | 66                       |
| Air Brake (Nylon)  | 1468                   | 1466                     |
| Air Brake (Copper) | 1368                   | 1366                     |
| (JIC) Flare        | C5205                  | C5255                    |
| Inverted Flare     | 202                    | 252                      |

TABLE 2

| Tube Size | PIPE THREADS |       |
|-----------|--------------|-------|
|           | Brass        | Steel |
| x2        | 1/8          | 1/8   |
| x3        | 3/16         | 1/8   |
| x4        | 1/4          | 1/8   |
| x5        | 5/16         | 1/8   |
| x6        | 3/8          | 1/4   |
| x7        | 7/16         | 1/4   |
| x8        | 1/2          | 3/8   |
| x10       | 5/8          | 1/2   |
| x12       | 3/4          | 3/4   |
| x14       | 7/8          | 3/4   |
| x16       | 1            | 1     |
| x20       | 1-1/4        | NS    |
| x24       | 1-1/2        | NS    |
| x30       | 2            | NS    |

**48 X 6 X 2**  
**A B C**

### Pipe Fitting Sizing

Nominal pipe sizes do not agree with either the I.D., O.D., or thread sizes. To determine pipe size (up to 1-1/4") measure the diameter of the threads and subtract 1/4". For example, subtract 1/4" from a 1" pipe to obtain the nominal pipe size of 3/4".

FITTINGS



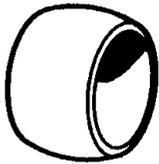
### Brass Ferrules / Sleeves

Illustrated here are three Ferrules/Sleeves which are similar in appearance yet have distinctly different uses. Use extra caution when selecting one for a job to be certain that you are choosing the proper ferrule/sleeve. If a compression ferrule/sleeve is used in an air brake fitting it could result in a leak that could reduce braking ability. This poses an extreme danger not only to vehicle operators but to others using the highways as well. The danger to your company is also very great. If an accident occurs as a result of installation of an incorrect ferrule/sleeve your insurance company can disclaim any liability.

**THIS MEANS THAT YOUR COMPANY MAY BE HELD LIABLE FOR ALL DAMAGES!**

**Note: D.O.T. regulations specify that only sleeves #1 & #2 are acceptable in air brake systems.**

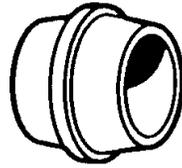
**#1**



**Air Brake Sleeve  
for Copper Tubing**

Has a continuously smooth contour throughout.

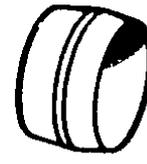
**#2**



**Air Brake Sleeve  
for Nylon Hose**

Has a raised, flat ribbed flange across its mid-section.

**#3**



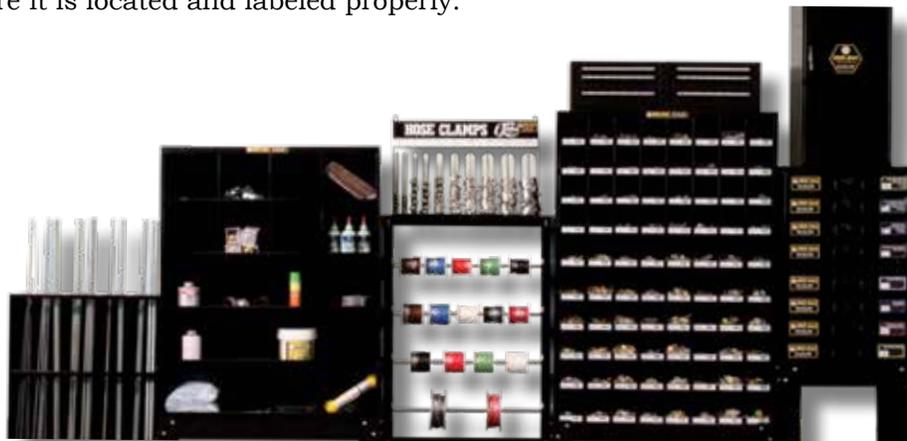
**Compression  
Sleeve**

Has a distinct flat band across its mid-section.

## ***Know The Difference! It's The Law!***

### **PROTECT YOURSELF!**

1. Use a separate storage cabinet for all air brake fittings and ferrules. Use another cabinet for all regular brass fittings.
2. Keep cabinets as far away from each other as practical.
3. Teach all maintenance and parts personnel the difference between the three ferrules / sleeves. Be sure to impress upon them the dangers resulting from an error.
4. Give your IBS, Inc. Sales Representative permission to inspect your brass fitting stock on every visit to make sure it is located and labeled properly.



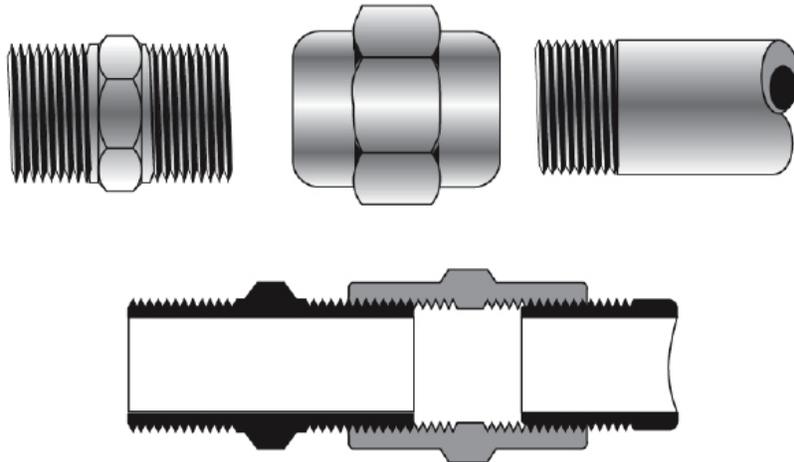
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# IBS, INCORPORATED

## Pipe Fittings O06

### Pipe Fittings

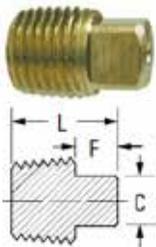


| Pipe Size   | 1/8    | 1/4    | 3/8    | 1/2    | 3/4    |
|-------------|--------|--------|--------|--------|--------|
| Thread Size | 1/8-27 | 1/4-18 | 3/8-18 | 1/2-14 | 3/4-14 |

- **Advantages**
  - Dryseal pipe threads.
  - Large range of sizes and configurations.
- **Use with** grease, fuels, refrigeration, instrumentation, and hydraulic systems.
- **Use with operating pressures up to 1200 psi.**
- **Offers a fair resistance to vibration.**
- Can be used in temperatures ranging from -65° F to +250°F at 1000 psi.
- **Use with brass, bronze, and iron pipe.**
- **Listed by Underwriter's Laboratories** for fuel equipment, refrigeration, and gas.
- **Meets specifications and standards of ASA, ASME and SAE**

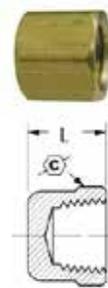
FITTINGS

### Square Head Plugs



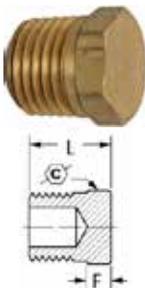
| IBS No. | MPT | C   | F   | L    | Qty |
|---------|-----|-----|-----|------|-----|
| 3151X2  | 1/8 | .28 | .24 | .58  | 10  |
| 3151X4  | 1/4 | .37 | .29 | .74  | 10  |
| 3151X6  | 3/8 | .43 | .32 | .82  | 5   |
| 3151X8  | 1/2 | .56 | .39 | .99  | 5   |
| 3151X12 | 3/4 | .62 | .43 | 1.12 | 5   |

### Pipe Caps



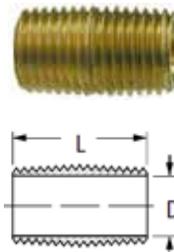
| IBS No. | FPT | Hex   | Qty |
|---------|-----|-------|-----|
| 3129X2  | 1/8 | 9/16  | 10  |
| 3129X4  | 1/4 | 11/16 | 10  |
| 3129X6  | 3/8 | 13/16 | 10  |
| 3129X8  | 1/2 | 15/16 | 5   |
| 3129X12 | 3/4 | 1-1/4 | 5   |

### Hex Head Plugs



| IBS No. | MPT | C      | L   | Qty |
|---------|-----|--------|-----|-----|
| 3152X2  | 1/8 | 7/16   | .57 | 10  |
| 3152X4  | 1/4 | 9/16   | .62 | 10  |
| 3152X6  | 3/8 | 11/16  | .72 | 5   |
| 3152X8  | 1/2 | 7/8    | .78 | 5   |
| 3152X12 | 3/4 | 1-1/16 | .88 | 5   |

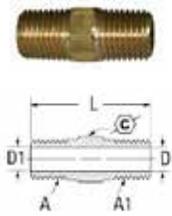
### Close Nipples



| IBS No. | FPT | L    | Qty |
|---------|-----|------|-----|
| 3326X2  | 1/8 | .75  | 10  |
| 3326X4  | 1/4 | .88  | 10  |
| 3326X6  | 3/8 | 1.00 | 10  |
| 3326X8  | 1/2 | 1.12 | 5   |
| 3326X12 | 3/4 | 1.38 | 5   |



### Hex Pipe Nipples



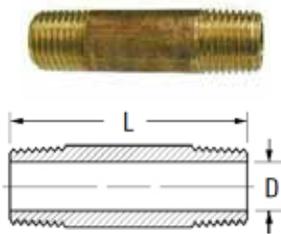
| IBS No. | MPT | Hex (C) | L    | D    | Qty |
|---------|-----|---------|------|------|-----|
| 3325X2  | 1/8 | 7/16    | .97  | .219 | 10  |
| 3325X4  | 1/4 | 9/16    | 1.38 | .312 | 10  |
| 3325X6  | 3/8 | 11/16   | 1.41 | .438 | 10  |
| 3325X8  | 1/2 | 7/8     | 1.81 | .562 | 5   |
| 3325X12 | 3/4 | 1-1/16  | 1.94 | .750 | 5   |

### Hex Pipe Reducing Nipples



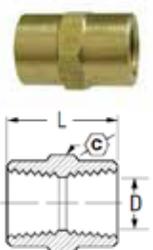
| IBS No.  | MPT       | Hex (C) | L    | Qty |
|----------|-----------|---------|------|-----|
| 3325X4X2 | 1/4 X 1/8 | 9/16    | 1.19 | 10  |
| 3325X6X2 | 3/8 X 1/8 | 11/16   | 1.22 | 10  |
| 3325X6X4 | 3/8 X 1/4 | 11/16   | 1.41 | 5   |
| 3325X8X4 | 1/2 X 1/4 | 7/8     | 1.62 | 5   |
| 3325X8X6 | 1/2 X 3/8 | 7/8     | 1.62 | 5   |

### Long Nipples



| IBS No. | MPT | L      | Qty |
|---------|-----|--------|-----|
| 3327X2  | 1/8 | 1-1/2" | 10  |
| 3328X2  | 1/8 | 2"     | 5   |
| 3330X2  | 1/8 | 3"     | 5   |
| 3327X4  | 1/4 | 1-1/2" | 10  |
| 3328X4  | 1/4 | 2"     | 5   |
| 3329X4  | 1/4 | 2-1/2" | 5   |
| 3330X4  | 1/4 | 3"     | 5   |
| 3328X6  | 3/8 | 2"     | 5   |
| 3329X6  | 3/8 | 2-1/2" | 5   |
| 3330X6  | 3/8 | 3"     | 5   |
| 3328X8  | 1/2 | 2"     | 5   |
| 3329X8  | 1/2 | 2-1/2" | 5   |
| 3330X8  | 1/2 | 3"     | 5   |

### Pipe Coupling



| IBS No. | FPT | Hex    | D    | L    | Qty |
|---------|-----|--------|------|------|-----|
| 3300X2  | 1/8 | 9/16   | .339 | .75  | 10  |
| 3300X4  | 1/4 | 3/4    | .438 | 1.12 | 10  |
| 3300X6  | 3/8 | 7/8    | .578 | 1.12 | 5   |
| 3300X8  | 1/2 | 1-1/16 | .703 | 1.50 | 5   |
| 3300X12 | 3/4 | 1-1/4  | .906 | 1.53 | 5   |

### Pipe Reducer Coupling



| IBS No.  | FPT       | Hex    | D    | L    | Qty |
|----------|-----------|--------|------|------|-----|
| 3300X4X2 | 1/4 X 1/8 | 3/4    | .339 | .96  | 10  |
| 3300X6X2 | 3/8 X 1/8 | 7/8    | .339 | .94  | 10  |
| 3300X6X4 | 3/8 X 1/4 | 7/8    | .438 | 1.16 | 5   |
| 3300X8X4 | 1/2 X 1/4 | 1-1/16 | .438 | 1.28 | 5   |
| 3300X8X6 | 1/2 X 3/8 | 1-1/16 | .562 | 1.38 | 5   |

### Pipe Adapters



| IBS No.   | FPT | MPT | Hex    | D    | L    | Qty |
|-----------|-----|-----|--------|------|------|-----|
| 3200X2    | 1/8 | 1/8 | 9/16   | .219 | .88  | 10  |
| 3200X4X2  | 1/4 | 1/8 | 3/4    | .219 | 1.06 | 10  |
| 3200X4    | 1/4 | 1/4 | 3/4    | .312 | 1.25 | 10  |
| 3200X6X4  | 3/8 | 1/4 | 7/8    | .312 | 1.25 | 5   |
| 3200X6    | 3/8 | 3/8 | 7/8    | .438 | 1.25 | 5   |
| 3200X6X2  | 3/8 | 1/8 | 13/16  | .219 | 1.00 | 5   |
| 3200X8    | 1/2 | 1/2 | 1-1/16 | 7.03 | 1.66 | 5   |
| 3200X8X4  | 1/2 | 1/4 | 1-1/16 | .312 | 1.66 | 5   |
| 3200X8X6  | 1/2 | 3/8 | 1-1/16 | .438 | 1.47 | 5   |
| 3200X12X6 | 3/4 | 3/8 | 1-1/4  | .438 | 1.59 | 5   |
| 3200X12X8 | 3/4 | 1/2 | 1-3/8  | .703 | 1.69 | 5   |

### Hex Pipe Bushings



| IBS No.   | MPT | FPT | Hex    | D    | L   | Qty |
|-----------|-----|-----|--------|------|-----|-----|
| 3220X4X2  | 1/4 | 1/8 | 5/8    | .339 | .59 | 10  |
| 3220X6X2  | 3/8 | 1/8 | 11/16  | .328 | .75 | 10  |
| 3220X6X4  | 3/8 | 1/4 | 11/16  | .438 | .69 | 10  |
| 3220X8X2  | 1/2 | 1/8 | 7/8    | .530 | .75 | 5   |
| 3220X8X4  | 1/2 | 1/4 | 7/8    | .438 | .75 | 5   |
| 3220X8X6  | 1/2 | 3/8 | 7/8    | .562 | .75 | 5   |
| 3220X12X2 | 3/4 | 1/8 | 1-1/16 | .339 | .94 | 5   |
| 3220X12X4 | 3/4 | 1/4 | 1-1/16 | .438 | .94 | 5   |
| 3220X12X6 | 3/4 | 3/8 | 1-1/8  | .562 | .94 | 5   |
| 3220X12X8 | 3/4 | 1/2 | 1-1/8  | .703 | .94 | 5   |

FITTINGS



# IBS, INCORPORATED

## Pipe Fittings O06

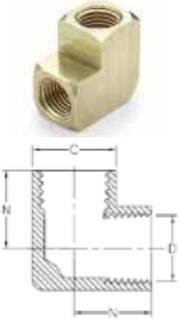
FITTINGS

### 45° Street Elbow



| IBS No. | MPT | FPT | C     | Qty |
|---------|-----|-----|-------|-----|
| 3350X2  | 1/8 | 1/8 | 9/16  | 5   |
| 3350X4  | 1/4 | 1/4 | 11/16 | 5   |
| 3350X6  | 3/8 | 3/8 | 13/16 | 5   |
| 3350X8  | 1/2 | 1/2 | 1     | 5   |
| 3350X12 | 3/4 | 3/4 | 1-1/4 | 5   |

### 90° Elbow



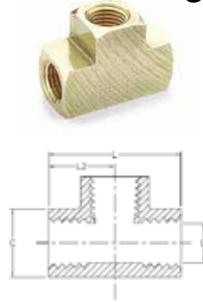
| IBS No. | FPT | C     | Qty |
|---------|-----|-------|-----|
| 3500X2  | 1/8 | 9/16  | 10  |
| 3500X4  | 1/4 | 11/16 | 10  |
| 3500X6  | 3/8 | 3/4   | 5   |
| 3500X8  | 1/2 | 1     | 5   |
| 3500X12 | 3/4 | 1-1/4 | 5   |

### 90° Street Elbow



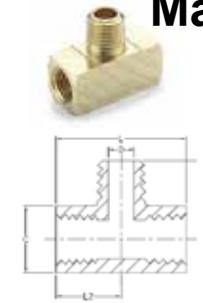
| IBS No.  | MPT | FPT | C     | Qty |
|----------|-----|-----|-------|-----|
| 3400X2   | 1/8 | 1/8 | 9/16  | 5   |
| 3400X4X2 | 1/4 | 1/8 | 11/16 | 5   |
| 3400X4   | 1/4 | 1/4 | 11/16 | 5   |
| 3400X6   | 3/8 | 3/8 | 13/16 | 5   |
| 3400X8   | 1/2 | 1/2 | 1     | 5   |
| 3400X12  | 3/4 | 3/4 | 1-1/4 | 5   |

### 90° Union Tee



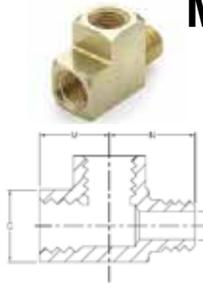
| IBS No. | FPT | C     | Qty |
|---------|-----|-------|-----|
| 3700X2  | 1/8 | 9/16  | 5   |
| 3700X4  | 1/4 | 11/16 | 5   |
| 3700X6  | 3/8 | 13/16 | 5   |
| 3700X8  | 1/2 | 1     | 5   |
| 3700X12 | 3/4 | 1-1/4 | 5   |

### Male Branch Tee



| IBS No. | MPT | FPT | L    | Qty |
|---------|-----|-----|------|-----|
| 3600X2  | 1/8 | 1/8 | 1.10 | 10  |
| 3600X4  | 1/4 | 1/4 | 1.56 | 10  |
| 3600X6  | 3/8 | 3/8 | 1.68 | 5   |
| 3600X8  | 1/2 | 1/2 | 2.18 | 5   |
| 3600X12 | 3/4 | 3/4 | 2.32 | 5   |

### Male Run Tee



| IBS No. | MPT | FPT | C     | Qty |
|---------|-----|-----|-------|-----|
| 3750X2  | 1/8 | 1/8 | 9/16  | 5   |
| 3750X4  | 1/4 | 1/4 | 11/16 | 5   |
| 3750X6  | 3/8 | 3/8 | 13/16 | 5   |
| 3750X8  | 1/2 | 1/2 | 1     | 5   |
| 3750X12 | 3/4 | 3/4 | 1-1/4 | 5   |

|   |   |   |   |                                   |                                   |  |  |
|---|---|---|---|-----------------------------------|-----------------------------------|--|--|
| 1/4 x 1/8 Reducing Coupling<br>3300x4x2 | 3/8 x 1/8 Reducing Coupling<br>3300x6x2 | 3/8 x 1/4 Reducing Coupling<br>3300x6x4 | 1/2 x 3/8 Reducing Coupling<br>3300x8x6 | 1/8 Coupling<br>3300x2            | 1/4 Coupling<br>3300x4            | 3/8 Coupling<br>3300x6                 | 1/2 Coupling<br>3300x8                 |
| 1/4 x 1/8 Bushing<br>3220x4x2           | 3/8 x 1/8 Bushing<br>3220x6x2           | 3/8 x 1/4 Bushing<br>3220x6x4           | 1/2 x 1/8 Bushing<br>3220x8x2           | 1/8 Hex Hd Plug<br>3152x2         | 1/4 Hex Hd Plug<br>3152x4         | 3/8 Hex Hd Plug<br>3152x6              | 1/2 Hex Hd Plug<br>3152x8              |
| 1/8 Street Elbow<br>3400x2              | 1/4 Street Elbow<br>3400x4              | 3/8 Street Elbow<br>3400x6              | 1/2 Street Elbow<br>3400x8              | 1/8 45° St Elbow<br>3350x2        | 1/4 45° St Elbow<br>3350x4        | 3/8 45° St Elbow<br>3350x6             | 1/2 45° St Elbow<br>3350x8             |
| 1/8 Close Nipple<br>3326x2              | 1/4 Close Nipple<br>3326x4              | 3/8 Close Nipple<br>3326x6              | 1/2 Close Nipple<br>3326x8              | 1/8 x 1-1/2 Long Nipple<br>3327x2 | 1/4 x 1-1/2 Long Nipple<br>3327x4 | 3/8 x 2 Long Nipple<br>3328x6          | 1/2 x 2 Long Nipple<br>3328x8          |
| 1/8 Elbow<br>3500x2                     | 1/4 Elbow<br>3500x4                     | 3/8 Elbow<br>3500x6                     | 1/8 Adapter<br>3200x2                   | 1/4 Adapter<br>3200x4             | 3/8 Adapter<br>3200x6             | 1/4 x 1/8 Reducing Adapter<br>3200x4x2 | 3/8 x 1/4 Reducing Adapter<br>3200x6x4 |

### Brass Pipe Fittings (Z06)

IBS No. 158P

40 ITEMS - 162 PIECES

Packaged in a 40 compartment metal bin





### Brass Pipe Fittings

IBS No. 103R

32 Items • 134 Pcs

Packaged in a locking steel drawer for easy storage and organization



| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM • © • 800-678-1506 |                                     |                                     |                                     | Brass Pipe Fittings                 |                                     |                                      |                                   |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-----------------------------------|
| Assortment No. 103R   |                                     |                                     |                                     |                                     |                                     |                                      |                                   |
| 3152X8<br>1/2 BRASS HEX HD PLUG   | 3220X8X2<br>1/2 X 1/8 BRASS PIPE HX | 3326X4<br>1/4 X CLOSE BRASS NIPPLE  | 3350X4<br>1/4 BRASS 45DGR ST. ELBOW | 3400X4<br>1/4 X 1/4 BRASS ST. ELBOW | 3750X4<br>1/4 BRASS PIPE ST. TEE    | WHD145<br>1/4 BRASS EXT SEAT DRAINCK | 3300X8<br>1/2 BRASS PIPE COUPLING |
| 3152X6<br>3/8 BRASS HEX HD PLUG   | 3220X6X4<br>3/8 X 1/4 BRASS PIPE HX | 3326X2<br>1/8 X CLOSE BRASS NIPPLE  | 3350X2<br>1/8 BRASS 45DGR ST. ELBOW | 3400X2<br>1/8 X 1/8 BRASS ST. ELBOW | 3750X2<br>1/8 BRASS PIPE ST. TEE    | WHD135<br>1/8 BRASS EXT SEAT DRAINCK | 3300X6<br>3/8 BRASS PIPE COUPLING |
| 3152X4<br>1/4 BRASS HEX HD PLUG   | 3220X6X2<br>3/8 X 1/8 BRASS PIPE HX | 3220X8X6<br>1/2 X 3/8 BRASS PIPE HX | 3326X8<br>1/2 X CLOSE BRASS NIPPLE  | 3350X8<br>1/2 BRASS 45DGR ST. ELBOW | 3400X8<br>1/2 X 1/2 BRASS ST. ELBOW | 3750X8<br>1/2 BRASS PIPE ST. TEE     | 3300X4<br>1/4 BRASS PIPE COUPLING |
| 3152X2<br>1/8 BRASS HEX HD PLUG   | 3220X4X2<br>1/4 X 1/8 BRASS PIPE HX | 3220X8X4<br>1/2 X 1/4 BRASS PIPE HX | 3326X6<br>3/8 X CLOSE BRASS NIPPLE  | 3350X6<br>3/8 BRASS 45DGR ST. ELBOW | 3400X6<br>3/8 X 3/8 BRASS ST. ELBOW | 3750X6<br>3/8 BRASS PIPE ST TEE      | 3300X2<br>1/8 BRASS PIPE COUPLING |

### Brass Pipe Fittings

3/8" & 1/2"

IBS No. 103R-LGR

17 Items • 64 Pcs

Packaged in a locking steel drawer for easy storage and organization



| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM • © • 800-678-1506 |                                     |                                     |                                   | Brass Pipe Fittings |  |  |  |
|---|-------------------------------------|-------------------------------------|-----------------------------------|---------------------|--|--|--|
| Assortment No. 103R-LGR   |                                     |                                     |                                   |                     |  |  |  |
| 3220X6X4<br>3/8 X 1/4 BRASS PIPE HX   | 3326X8<br>1/2 X CLOSE BRASS NIPPLE  | 3400X8<br>1/2 X 1/2 BRASS ST. ELBOW | 3300X8<br>1/2 BRASS PIPE COUPLING |                     |  |  |  |
| 3220X6X2<br>3/8 X 1/8 BRASS PIPE HX   | 3326X6<br>3/8 X CLOSE BRASS NIPPLE  | 3400X6<br>3/8 X 3/8 BRASS ST. ELBOW | 3300X6<br>3/8 BRASS PIPE COUPLING |                     |  |  |  |
| 3152X8<br>1/2 BRASS HEX HD PLUG   | 3220X8X6<br>1/2 X 3/8 BRASS PIPE HX | 3350X8<br>1/2 BRASS 45DGR ST. ELBOW | 3750X8<br>1/2 BRASS PIPE ST. TEE  |                     |  |  |  |
|   | 3220X8X4<br>1/2 X 1/4 BRASS PIPE HX |                                     |                                   |                     |  |  |  |
| 3152X6<br>3/8 BRASS HEX HD PLUG   | 3220X8X2<br>1/2 X 1/8 BRASS PIPE HX | 3350X6<br>3/8 BRASS 45DGR ST. ELBOW | 3750X6<br>3/8 BRASS PIPE ST TEE   |                     |  |  |  |

### Brass Pipe Fittings

1/8" & 1/4"

IBS No. 103R-SML • 15

Items • 71 Pcs

Packaged in a locking steel drawer for easy storage and organization



| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM • © • 800-678-1506 |                                     |                                     |  | Brass Pipe Fittings |  |  |  |
|---|-------------------------------------|-------------------------------------|--|---------------------|--|--|--|
| Assortment No. 103R-SML   |                                     |                                     |  |                     |  |  |  |
|   | 3400X4<br>1/4 X 1/4 BRASS ST. ELBOW | 3750X4<br>1/4 BRASS PIPE ST. TEE    | WHD145<br>1/4 BRASS EXT. SEAT DRAIN COCK |                     |  |  |  |
| 3220X4X2<br>1/4 X 1/8 BRASS PIPE HX   | 3400X2<br>1/8 X 1/8 BRASS ST. ELBOW | 3750X2<br>1/8 BRASS PIPE ST. TEE    | WHD135<br>1/8 BRASS EXT. SEAT DRAIN COCK |                     |  |  |  |
| 3152X4<br>1/4 BRASS HEX HD PLUG   | 3326X4<br>1/4 X CLOSE BRASS NIPPLE  | 3350X4<br>1/4 BRASS 45DGR ST. ELBOW | 3300X4<br>1/4 BRASS PIPE COUPLING        |                     |  |  |  |
| 3152X2<br>1/8 BRASS HEX HD PLUG   | 3326X2<br>1/8 X CLOSE BRASS NIPPLE  | 3350X2<br>1/8 BRASS 45DGR ST. ELBOW | 3300X2<br>1/8 BRASS PIPE COUPLING        |                     |  |  |  |

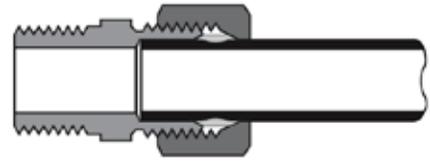
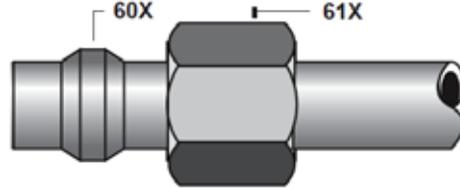
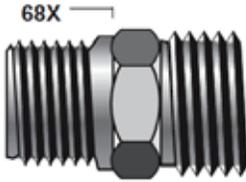
FITTINGS



# IBS, INCORPORATED

## Compression Fittings O02

### Compression Fittings



| Tube O.D.   | 1/8     | 3/16   | 1/4     | 5/16   | 3/8     | 7/16   | 1/2      | 5/8      | 3/4  | 1        |
|-------------|---------|--------|---------|--------|---------|--------|----------|----------|------|----------|
| 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 | 1-1/4-18 |

- Does not require flaring, soldering or other preparation of tubing in order to assemble.
- Listed with Underwriter's Laboratories for flammable liquid. Meets functional requirements of SAE J-512, ASA, and ASME.
- Use with copper, brass or aluminum. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved.
- Can be used in temps. ranging from -65° to +250° F.
- Fair resistance to vibration or tube movement, depending on applications involved. Use long nut for additional resistance to vibration.

### 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.

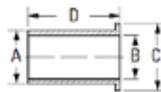
| PSI | Tube O.D. (in) | Tube Wall (in.) |
|-----|----------------|-----------------|
| 400 | 1/8            | .030            |
| 400 | 3/16           | .030            |
| 300 | 1/4            | .030            |
| 300 | 5/16           | .032            |
| 200 | 3/8            | .032            |
| 200 | 1/2            | .032            |
| 150 | 5/8            | .035            |
| 100 | 3/4            | .035            |
| 75  | 7/8            | .035            |

### Assembly Instructions

1. Cut tubing to desired length and remove all burrs.
2. Slide nut, then sleeve onto tubing with the threaded end of the nut facing out.
3. Insert tubing into fitting body making sure the tube is bottomed on the fitting shoulder.
4. Assemble nut to body and tighten hand tight. Then tighten with a wrench the number of turns as indicated by the accompanying chart

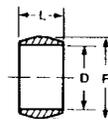
| Tube Size      | Additional Turns From Hand Tight |
|----------------|----------------------------------|
| 1/8" thru 1/4" | 1-1/4                            |
| 5/16"          | 1-3/4                            |
| 3/8" thru 1"   | 2-1/4                            |

### Inserts for Plastic Tubing (Not for Air Brake)



| IBS No. | Tube OD | A     | B     | C     | D     | Qty |
|---------|---------|-------|-------|-------|-------|-----|
| 2030X4  | 1/4     | 1/8   | 3/32  | 11/64 | 19/32 | 20  |
| 2030X44 | 1/4     | 11/64 | 9/64  | 7/32  | 17/32 | 20  |
| 2030X5  | 5/16    | 3/16  | 5/32  | 15/64 | 5/8   | 20  |
| 2030X6  | 3/8     | 1/4   | 7/32  | 11/32 | 41/64 | 20  |
| 2030X8  | 1/2     | 3/8   | 11/32 | 7/16  | 13/16 | 10  |
| 2030X10 | 5/8     | 1/2   | 29/64 | 35/64 | 13/16 | 10  |

### Compression Sleeves

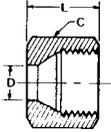


| IBS No. | Tube OD | D   | F   | L   | Qty |
|---------|---------|-----|-----|-----|-----|
| 60X2    | 1/8     | .13 | .19 | .19 | 20  |
| 60X3    | 3/16    | .19 | .27 | .22 | 20  |
| 60X4    | 1/4     | .26 | .34 | .25 | 20  |
| 60X5    | 5/16    | .32 | .41 | .25 | 20  |
| 60X6    | 3/8     | .38 | .47 | .25 | 20  |
| 60X8    | 1/2     | .51 | .59 | .38 | 10  |
| 60X10   | 5/8     | .63 | .72 | .38 | 10  |
| 60X12   | 3/4     | .76 | .88 | .44 | 10  |

FITTINGS

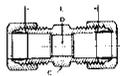


### Compression Nuts



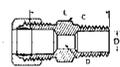
| IBS No. | Tube OD | Hex    | D   | L   | Qty |
|---------|---------|--------|-----|-----|-----|
| 61X2    | 1/8     | 3/8    | .13 | .38 | 10  |
| 61X3    | 3/16    | 7/16   | .19 | .41 | 10  |
| 61X4    | 1/4     | 1/2    | .26 | .44 | 10  |
| 61X5    | 5/16    | 9/16   | .32 | .44 | 10  |
| 61X6    | 3/8     | 5/8    | .38 | .47 | 10  |
| 61X8    | 1/2     | 13/16  | .51 | .62 | 10  |
| 61X10   | 5/8     | 15/16  | .63 | .62 | 5   |
| 61X12   | 3/4     | 1-3/16 | .76 | .69 | 5   |

### Compression Unions



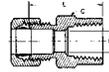
| IBS No. | Tube OD | Hex   | D    | L    | Qty |
|---------|---------|-------|------|------|-----|
| 62X2    | 1/8     | 5/16  | .094 | .66  | 5   |
| 62X3    | 3/16    | 3/8   | .125 | .76  | 5   |
| 62X4    | 1/4     | 7/16  | .188 | .79  | 5   |
| 62X5    | 5/16    | 1/2   | .250 | .88  | 5   |
| 62X6    | 3/8     | 9/16  | .312 | .97  | 5   |
| 62X8    | 1/2     | 11/16 | .406 | 1.10 | 5   |
| 62X10   | 5/8     | 13/16 | .500 | 1.25 | 5   |
| 62X12   | 3/4     | 1     | .562 | 1.44 | 5   |

### Male Connectors



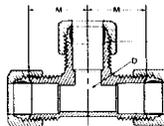
| IBS No. | Tube OD | MPT | Hex   | L    | Qty |
|---------|---------|-----|-------|------|-----|
| 68X2    | 1/8     | 1/8 | 7/16  | .78  | 5   |
| 68X3    | 3/16    | 1/8 | 7/16  | .84  | 5   |
| 68X4    | 1/4     | 1/8 | 7/16  | .88  | 5   |
| 68X4X4  | 1/4     | 1/4 | 9/16  | 1.06 | 5   |
| 68X5    | 5/16    | 1/8 | 1/2   | .91  | 5   |
| 68X5X4  | 5/16    | 1/4 | 9/16  | 1.09 | 5   |
| 68X6X2  | 3/8     | 1/8 | 9/16  | .97  | 5   |
| 68X6    | 3/8     | 1/4 | 9/16  | 1.17 | 5   |
| 68X6X6  | 3/8     | 3/8 | 11/16 | 1.16 | 5   |
| 68X6X8  | 3/8     | 1/2 | 11/16 | 1.16 | 5   |
| 68X8X4  | 1/2     | 1/4 | 11/16 | 1.22 | 5   |
| 68X8    | 1/2     | 3/8 | 11/16 | 1.22 | 5   |
| 68X8X8  | 1/2     | 1/2 | 7/8   | 1.41 | 5   |
| 68X10   | 5/8     | 1/2 | 7/8   | 1.50 | 5   |

### Female Connectors



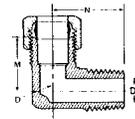
| IBS No. | Tube OD | FPT | C     | L    | Qty |
|---------|---------|-----|-------|------|-----|
| 66X2    | 1/8     | 1/8 | 9/16  | .75  | 5   |
| 66X3    | 3/16    | 1/8 | 9/16  | .78  | 5   |
| 66X4    | 1/4     | 1/8 | 9/16  | .78  | 5   |
| 66X4X4  | 1/4     | 1/4 | 11/16 | 1.03 | 5   |
| 66X5    | 5/16    | 1/8 | 9/16  | .81  | 5   |
| 66X5X4  | 5/16    | 1/4 | 5/8   | .91  | 5   |

### Union Tees



| IBS No. | Tube OD | D    | M   | Qty |
|---------|---------|------|-----|-----|
| 64X3    | 3/16    | .125 | .60 | 5   |
| 64X4    | 1/4     | .188 | .62 | 5   |
| 64X5    | 5/16    | .250 | .60 | 5   |
| 64X6    | 3/8     | .312 | .73 | 5   |
| 64X8    | 1/2     | .406 | .94 | 5   |

### Male Elbows



| IBS No. | Tube OD | MPT | D    | D1   | M    | N    | Qty |
|---------|---------|-----|------|------|------|------|-----|
| 69X2    | 1/8     | 1/8 | .094 | .219 | .60  | .67  | 5   |
| 69X3    | 3/16    | 1/8 | .125 | .219 | .62  | .69  | 5   |
| 69X4    | 1/4     | 1/8 | .188 | .219 | .62  | .75  | 5   |
| 69X4X4  | 1/4     | 1/4 | .188 | .188 | .63  | .84  | 5   |
| 69X5    | 5/16    | 1/8 | .250 | .234 | .62  | .75  | 5   |
| 69X5X4  | 5/16    | 1/4 | .202 | .344 | .69  | .84  | 5   |
| 69X6X2  | 3/8     | 1/8 | .312 | .234 | .69  | .69  | 5   |
| 69X6    | 3/8     | 1/4 | .312 | .344 | .75  | .93  | 5   |
| 69X6X6  | 3/8     | 3/8 | .312 | .437 | .85  | .94  | 5   |
| 69X6X8  | 3/8     | 1/2 | .406 | .531 | .87  | 1.12 | 5   |
| 69X8X4  | 1/2     | 1/4 | .406 | .312 | .84  | .94  | 5   |
| 69X8    | 1/2     | 3/8 | .406 | .407 | .94  | 1.12 | 5   |
| 69X8X8  | 1/2     | 1/2 | .406 | .531 | .94  | 1.31 | 5   |
| 69X10   | 5/8     | 1/2 | .500 | .564 | 1.06 | 1.31 | 5   |

FITTINGS



# IBS, INCORPORATED

## Compression Fittings O02

### Compression Fittings Assortment

IBS No. 177R • 24 Items 209 Pieces

Packaged in a locking steel drawer for easy storage & organization.



### Compression Brass Fittings

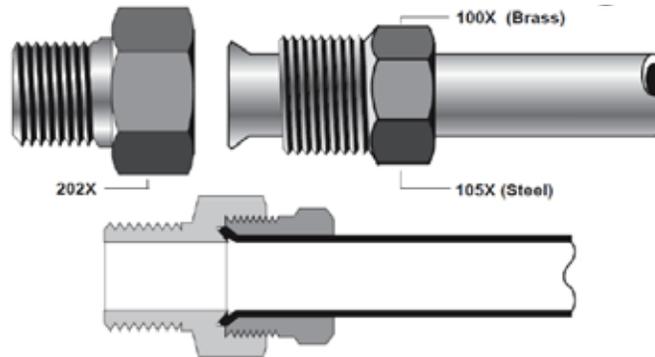
Assortment No. 177R

|  |   |   |  |  |   |
|--|---|---|--|--|---|
| <b>60X3</b><br>3/16 OD BRASS COMP SLEEVE<br>      | <b>60X4</b><br>1/4 OD BRASS COMP SLEEVE<br>      | <b>60X5</b><br>5/16 OD BRASS COMP SLEEVE<br>       | <b>60X6</b><br>3/8 OD BRASS COMP SLEEVE<br>       | <b>61X3</b><br>3/16 OD BRASS COMP NUT<br>           | <b>61X4</b><br>1/4 OD BRASS COMP NUT<br>         |
| <b>61X5</b><br>5/16 OD BRASS COMP NUT<br>         | <b>61X6</b><br>3/8 OD BRASS COMP NUT<br>         | <b>62X3</b><br>3/16 OD BRASS COMP UNION<br>        | <b>62X4</b><br>1/4 OD BRASS COMP UNION<br>        | <b>62X5</b><br>5/16 OD BRASS COMP UNION<br>         | <b>62X6</b><br>3/8 OD BRASS COMP UNION<br>       |
| <b>68X3</b><br>3/16 X 1/8 BRASS COMP M CONN<br>   | <b>68X4</b><br>1/4 X 1/8 BRASS COMP M CONN<br>   | <b>68X4X4</b><br>1/4 X 1/4 BRASS COMP M CONN<br>   | <b>68X5</b><br>5/16 X 1/8 BRASS COMP M CONN<br>   | <b>68X5X4</b><br>5/16 X 1/4 BRASS COMP M CONN<br>   | <b>68X6</b><br>3/8 X 1/4 BRASS COMP M CONN<br>   |
| <b>69X3</b><br>3/16 X 1/8 90DGR BRASS COMP M<br> | <b>69X4</b><br>1/4 X 1/8 90DGR BRASS COMP M<br> | <b>69X4X4</b><br>1/4 X 1/4 90DGR BRASS COMP M<br> | <b>69X5</b><br>5/16 X 1/8 90DGR BRASS COMP M<br> | <b>69X5X4</b><br>5/16 X 1/4 90DGR BRASS COMP M<br> | <b>69X6</b><br>3/8 X 1/4 90DGR BRASS COMP M<br> |

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### 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 Size | 5/16-28 | 3/8-24 | 7/16-24 | 1/2-20 | 5/8-18 | 11/16-18 | 3/4-18 | 7/8-18 | 1-1/16-16 | 1-13/16-16 | 1-15/16-16 |

- **Economical**
  - Built to resist mechanical pullout
  - Can be assembled and disassembled repeatedly.
- **Listed with Underwriters' Laboratories** for flammable liquid and gas. Meets functional requirements of SAE J512, ASA, ASME, and MS (Military Standards).
- **Use with** copper, brass, aluminum and welded steel hydraulic tubing that can be flared.
- **Will withstand** minimal vibration movements.
- **Temperature range** form -65° to +250°F.

#### 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            |

#### Assembly Instructions

1. Cut tubing to desired length and remove all burrs.
2. Slide nut, then sleeve onto tubing with the threaded end of the nut facing out.
3. Flare end of tube with a 45° flaring tool. Measure flare diameter. Examine flare for excessive thin out. On thin wall copper, welded or brazed tubing use double flare to prevent pinched off or cracked flares.
4. Clamp tube flare between nut and flare seat of body by screwing nut on finger tight. Tighten with a wrench for metal-to-metal seal.

*Note: The seat dimensions are predicated on practical threading limitations and use of these fittings with double flared tubing.*

#### Tube Nuts



| IBS No. | Tube OD | C    | D    | L   | Qty |
|---------|---------|------|------|-----|-----|
| 100X3   | 3/16    | 3/8  | .196 | .56 | 25  |
| 100X4   | 1/4     | 7/16 | .259 | .56 | 25  |
| 100X5   | 5/16    | 1/2  | .321 | .62 | 25  |
| 100X6   | 3/8     | 5/8  | .384 | .66 | 10  |
| 100X8   | 1/2     | 3/4  | .508 | .74 | 10  |

#### Steel Inverted Nuts



| IBS No. | Tube OD | C    | D    | L   | Qty |
|---------|---------|------|------|-----|-----|
| 105X2   | 1/8     | 5/16 | .132 | .52 | 10  |
| 105X3   | 3/16    | 3/8  | .196 | .56 | 10  |
| 105X4   | 1/4     | 7/16 | .259 | .56 | 10  |
| 105X5   | 5/16    | 1/2  | .321 | .62 | 10  |
| 105X6   | 3/8     | 5/8  | .384 | .66 | 10  |
| 105X8   | 1/2     | 3/4  | .508 | .74 | 10  |

FITTINGS



# IBS, INCORPORATED

## Inverted Flare Fittings O03

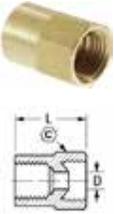
FITTINGS

### Steel Inverted Plug



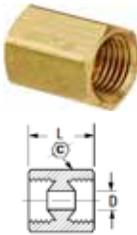
| IBS No. | Tube OD | C    | D    | L   | Qty |
|---------|---------|------|------|-----|-----|
| 131X3   | 3/16    | 3/8  | .188 | .53 | 10  |
| 131X4   | 1/4     | 7/16 | .188 | .54 | 10  |
| 131X5   | 5/16    | 1/2  | .250 | .59 | 10  |
| 131X6   | 3/8     | 5/8  | .312 | .66 | 5   |

### Female Connectors



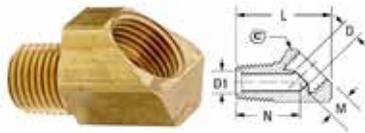
| IBS No. | Tube OD | FPT | C     | D    | L    | Qty |
|---------|---------|-----|-------|------|------|-----|
| 252X3   | 3/16    | 1/8 | 1/2   | .125 | .75  | 5   |
| 252X4   | 1/4     | 1/8 | 17/32 | .188 | .75  | 5   |
| 252X5   | 5/16    | 1/8 | 19/32 | .219 | .78  | 5   |
| 252X6   | 3/8     | 1/4 | 3/4   | .281 | 1.03 | 5   |

### Inverted Unions



| IBS No. | Tube OD | C     | D    | L   | Qty |
|---------|---------|-------|------|-----|-----|
| 302X3   | 3/16    | 15/32 | .125 | .62 | 10  |
| 302X4   | 1/4     | 17/32 | .188 | .62 | 10  |
| 302X5   | 5/16    | 19/32 | .219 | .70 | 10  |
| 302X6   | 3/8     | 3/4   | .281 | .80 | 5   |

### 45° Male Elbows



| IBS No. | Tube OD | MPT | C     | D    | D1   | L    | M    | N   | Qty |
|---------|---------|-----|-------|------|------|------|------|-----|-----|
| 352X3   | 3/16    | 1/8 | 17/32 | .125 | .156 | .88  | .88  | .55 | 10  |
| 352X4   | 1/4     | 1/8 | 9/16  | .188 | .188 | .94  | .94  | .58 | 10  |
| 352X5   | 5/16    | 1/8 | 5/8   | .219 | .203 | 1.00 | 1.00 | .56 | 10  |
| 352X6X2 | 3/8     | 1/8 | 25/32 | NA   | NA   | NA   | NA   | NA  | 5   |
| 352X6   | 3/8     | 1/4 | 25/32 | .281 | .219 | 1.34 | 1.34 | .84 | 5   |
| 352X8   | 1/2     | 3/8 | 7/8   | .406 | .375 | 1.44 | 1.44 | .91 | 5   |

### 90° Male Elbows



| IBS No. | Tube OD | MPT | D    | D1   | L    | L1   | M   | X   | Qty |
|---------|---------|-----|------|------|------|------|-----|-----|-----|
| 402X2   | 1/8     | 1/8 | .078 | .116 | .80  | .47  | .27 | .42 | 10  |
| 402X3   | 3/16    | 1/8 | .125 | .125 | .85  | .47  | .27 | .47 | 10  |
| 402X4   | 1/4     | 1/8 | .188 | .177 | .92  | .55  | .33 | .53 | 10  |
| 402X4X4 | 1/4     | 1/4 | .188 | .188 | 1.09 | .58  | .28 | .56 | 10  |
| 402X5   | 5/16    | 1/8 | .219 | .219 | .98  | .67  | .47 | .59 | 10  |
| 402X5X4 | 5/16    | 1/4 | .219 | .219 | 1.16 | .75  | .45 | .59 | 10  |
| 402X6X2 | 3/8     | 1/8 | .281 | .219 | 1.14 | .75  | .54 | .76 | 10  |
| 402X6   | 3/8     | 1/4 | .281 | .281 | 1.32 | .82  | .53 | .76 | 10  |
| 402X6X6 | 3/8     | 3/8 | .281 | .312 | 1.32 | .84  | .50 | .75 | 5   |
| 402X8   | 1/2     | 3/8 | .406 | .375 | 1.48 | .94  | .59 | .92 | 5   |
| 402X8X8 | 1/2     | 1/2 | .406 | .406 | 1.67 | 1.09 | .66 | .91 | 5   |

### Male Connectors



| IBS No. | Tube OD | MPT | Hex   | D    | L    | Qty |
|---------|---------|-----|-------|------|------|-----|
| 202X2   | 1/8     | 1/8 | 13/32 | .078 | .62  | 10  |
| 202X3   | 3/16    | 1/8 | 15/32 | .125 | .70  | 10  |
| 202X4   | 1/4     | 1/8 | 17/32 | .188 | .74  | 10  |
| 202X4X4 | 1/4     | 1/4 | 9/16  | .188 | .89  | 10  |
| 202X5   | 5/16    | 1/8 | 19/32 | .219 | .79  | 10  |
| 202X5X4 | 5/16    | 1/4 | 19/32 | .220 | .98  | 10  |
| 202X6X2 | 3/8     | 1/8 | 3/4   | .281 | .89  | 10  |
| 202X6   | 3/8     | 1/4 | 3/4   | .281 | 1.03 | 10  |
| 202X6X6 | 3/8     | 3/8 | 3/4   | .281 | 1.01 | 5   |
| 202X8X4 | 1/2     | 1/4 | 29/32 | .406 | 1.08 | 5   |
| 202X8   | 1/2     | 3/8 | 29/32 | .406 | 1.07 | 5   |
| 202X8X8 | 1/2     | 1/2 | 29/32 | .406 | 1.26 | 5   |



### Inverted Flare Fittings Assortment

IBS No. 178R • 24 Items 129 Pieces

Packaged in a locking steel drawer for easy storage & organization.



| <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/> INDUSTRIALBOLT.COM © © 500-578-1506</small> |   | <b>Inverted Flare Brass Fittings</b>                  |  |   |  | Assortment No. 178R |
|---|---|---|--|---|--|---------------------|
| <b>105X3</b><br>3/16 INV TUBE NUT<br>STEEL<br>  | <b>105X4</b><br>1/4 INV TUBE NUT<br>STEEL<br>       | <b>105X5</b><br>5/16 INV TUBE NUT<br>STEEL<br>        | <b>105X6</b><br>3/8 INV TUBE NUT<br>STEEL<br>      | <b>202X3</b><br>3/16 X 1/8 INV M CONN<br>BRASS<br>  | <b>202X4</b><br>1/4 X 1/8 INV M CONN<br>BRASS<br>  |                     |
| <b>202X4X4</b><br>1/4 X 1/4 INV M CONN<br>BRASS<br>   | <b>202X5</b><br>5/16 X 1/8 INV M CONN<br>BRASS<br>  | <b>202X5X4</b><br>5/16 X 1/4 INV M CONN<br>BRASS<br>  | <b>202X6</b><br>3/8 X 1/4 INV M CONN<br>BRASS<br>  | <b>402X3</b><br>3/16 X 1/8 INV 90DGR<br>ELBOW M<br> | <b>402X4</b><br>1/4 X 1/8 INV 90DGR<br>ELBOW M<br> |                     |
| <b>402X4X4</b><br>1/4 X 1/4 INV 90DGR<br>ELBOW M<br>  | <b>402X5</b><br>5/16 X 1/8 INV 90DGR<br>ELBOW M<br> | <b>402X5X4</b><br>5/16 X 1/4 INV 90DGR<br>ELBOW M<br> | <b>402X6</b><br>3/8 X 1/4 INV 90DGR<br>ELBOW M<br> | <b>352X3</b><br>3/16 X 1/8 INV 45DGR<br>ELBOW M<br> | <b>352X4</b><br>1/4 X 1/8 INV 45DGR<br>ELBOW M<br> |                     |
| <b>352X5</b><br>5/16 X 1/8 INV 45DGR<br>ELBOW M<br>   | <b>352X6</b><br>3/8 X 1/4 INV 45DGR<br>ELBOW M<br>  | <b>302X3</b><br>3/16 INV UNION BRASS<br>              | <b>302X4</b><br>1/4 INV UNION BRASS<br>            | <b>302X5</b><br>5/16 INV UNION BRASS<br>            | <b>302X6</b><br>3/8 INV UNION BRASS<br>            |                     |

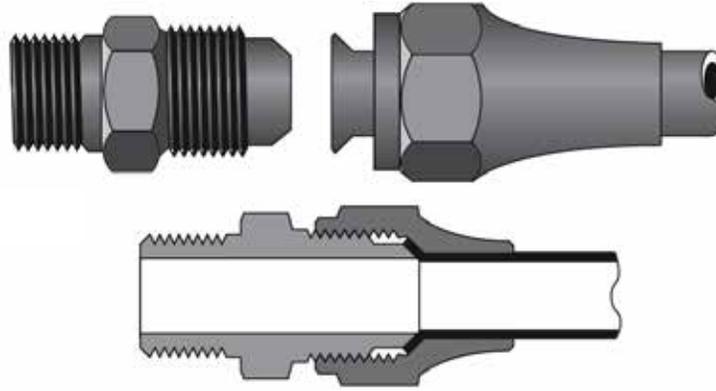
F I T T I N G S



# IBS, INCORPORATED

## SAE 45° Flared Fittings O01

### SAE 45° Flared Fittings



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

#### Economical

- Resists mechanical pullout.
- Can be assembled and disassembled repeatedly.

• **Use with copper, brass, aluminum, and welded** steel hydraulic tubing that can be flared. Manufactured especially for hard-to-hold liquids and gases.

• Listed with Underwriter's Laboratories for flammable liquid, marine, refrigeration and gas applications. **Meets functional requirements of SAE, ASA, ASME and MS (Military Standards)**

• **Short nut may be used** when vibration is minimal. **The long nut offers** additional vibration capacity.

• **Can be used in temperatures ranging from -65° to +250° F.**

#### Working Pressure Ranges

Temperatures 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. | Tube Wall |
|------|-----------|-----------|
| 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      |

#### Assembly Instructions

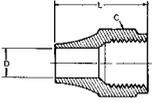
Flare fittings are easy to disassemble and may be reassembled repeatedly for a leak-proof connection.

1. Cut tubing to the length desired. Make sure the ends are square and all burrs are removed.
2. Slide the nut onto the tube with the threaded end facing out toward the end of the tube.
3. Flare the tube end using a 45° flaring tool.
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench for a metal-to-metal seal.

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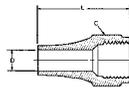


### Brass Flare Nut



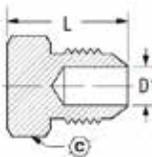
| IBS No. | Tube OD | Hex    | D    | Qty |
|---------|---------|--------|------|-----|
| 1110X3  | 3/16    | 7/16   | .195 | 10  |
| 1110X4  | 1/4     | 9/16   | .258 | 10  |
| 1110X5  | 5/16    | 5/8    | .320 | 10  |
| 1110X6  | 3/8     | 3/4    | .383 | 10  |
| 1110X8  | 1/2     | 7/8    | .508 | 10  |
| 1110X10 | 5/8     | 1-1/16 | .633 | 10  |

### Brass Flare Long Nut



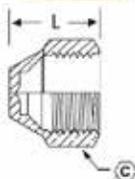
| IBS No. | Tube OD | Hex    | L    | D    | Qty |
|---------|---------|--------|------|------|-----|
| 41X2    | 1/8     | 1/8    | .75  | .132 | 10  |
| 41X3    | 3/16    | 7/16   | .81  | .195 | 10  |
| 41X4    | 1/4     | 9/16   | .94  | .258 | 10  |
| 41X5    | 5/16    | 5/8    | 1.12 | .320 | 10  |
| 41X6    | 3/8     | 3/4    | 1.31 | .383 | 5   |
| 41X8    | 1/2     | 7/8    | 1.62 | .508 | 5   |
| 41X10   | 5/8     | 1-1/16 | 1.88 | .633 | 5   |

### Brass Flare Plugs



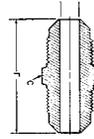
| IBS No. | Tube OD | Hex    | L    | Qty |
|---------|---------|--------|------|-----|
| 2229X4  | 1/4     | 7/16   | .69  | 5   |
| 2229X5  | 5/16    | 1/2    | .79  | 5   |
| 2229X6  | 3/8     | 5/8    | .88  | 5   |
| 2229X8  | 1/2     | 3/4    | 1.06 | 5   |
| 2229X10 | 5/8     | 7/8    | 1.19 | 1   |
| 2229X12 | 3/4     | 1-1/16 | 1.31 | 1   |

### Brass Flare Caps



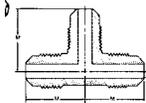
| IBS No. | Tube OD | Hex    | L    | Qty |
|---------|---------|--------|------|-----|
| 2129X4  | 1/4     | 7/16   | .53  | 10  |
| 2129X5  | 5/16    | 5/8    | .62  | 10  |
| 2129X6  | 3/8     | 3/4    | .69  | 10  |
| 2129X8  | 1/2     | 7/8    | .84  | 10  |
| 2129X10 | 5/8     | 1-1/16 | .97  | 5   |
| 2129X12 | 3/4     | 1-5/16 | 1.09 | 5   |

### Brass Flare Union



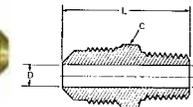
| IBS No. | Tube OD | Hex    | D    | L    | Qty |
|---------|---------|--------|------|------|-----|
| 42X2    | 1/8     | 5/16   | .078 | .92  | 10  |
| 42X3    | 3/16    | 3/8    | .125 | 1.06 | 10  |
| 42X4    | 1/4     | 7/16   | .188 | 1.19 | 10  |
| 42X5    | 5/16    | 1/2    | .219 | 1.34 | 10  |
| 42X6    | 3/8     | 5/8    | .281 | 1.50 | 5   |
| 42X8    | 1/2     | 3/4    | .406 | 1.81 | 5   |
| 42X10   | 5/8     | 7/8    | .500 | 2.12 | 5   |
| 42X12   | 3/4     | 1-1/16 | .625 | 2.44 | 5   |

### Brass Flare Union Tee



| IBS No. | Tube OD | M    | D    | Qty |
|---------|---------|------|------|-----|
| 44X4    | 1/4     | .86  | .188 | 5   |
| 44X5    | 5/16    | .89  | .219 | 5   |
| 44X6    | 3/8     | 1.04 | .281 | 5   |
| 44X8    | 1/2     | 1.20 | .406 | 5   |

### Brass Male Connector



| IBS No.  | Tube OD | MPT | Hex    | D    | L    | Qty |
|----------|---------|-----|--------|------|------|-----|
| 48X2     | 1/8     | 1/8 | 7/16   | .078 | .90  | 10  |
| 48X3     | 3/16    | 1/8 | 7/16   | .125 | 1.00 | 10  |
| 48X4     | 1/4     | 1/8 | 7/16   | .188 | 1.06 | 10  |
| 48X4X4   | 1/4     | 1/4 | 9/16   | .188 | 1.26 | 10  |
| 48X5     | 5/16    | 1/8 | 1/2    | .219 | 1.16 | 10  |
| 48X5X4   | 5/16    | 1/4 | 9/16   | .219 | 1.34 | 10  |
| 48X6X2   | 3/8     | 1/8 | 5/8    | .281 | 1.25 | 5   |
| 48X6     | 3/8     | 1/4 | 5/8    | .281 | 1.44 | 5   |
| 48X6X6   | 3/8     | 3/8 | 11/16  | .281 | 1.44 | 5   |
| 48X6X8   | 3/8     | 1/2 | 7/8    | .281 | 1.69 | 5   |
| 48X8X4   | 1/2     | 1/4 | 3/4    | .406 | 1.62 | 5   |
| 48X8     | 1/2     | 3/8 | 3/4    | .406 | 1.62 | 5   |
| 48X8X8   | 1/2     | 1/2 | 7/8    | .406 | 1.81 | 5   |
| 48X10X6  | 5/8     | 3/8 | 7/8    | .500 | 1.81 | 5   |
| 48X10    | 5/8     | 1/2 | 7/8    | .500 | 2.00 | 5   |
| 48X12    | 3/4     | 1/2 | 1-1/16 | .625 | 2.18 | 5   |
| 48X12X12 | 3/4     | 3/4 | 1-1/16 | .625 | 2.18 | 5   |

FITTINGS



# IBS, INCORPORATED

## SAE 45° Flared Fittings O01

### Brass Female Connector



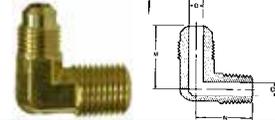
| IBS No. | Tube OD | FPT | Hex   | D    | L    | Qty |
|---------|---------|-----|-------|------|------|-----|
| 46X3    | 3/16    | 1/8 | 9/16  | .125 | .97  | 10  |
| 46X4    | 1/4     | 1/8 | 9/16  | .188 | 1.03 | 10  |
| 46X6X2  | 3/8     | 1/8 | 5/8   | .281 | 1.12 | 5   |
| 46X6    | 3/8     | 1/4 | 11/16 | .281 | 1.31 | 5   |
| 46X8    | 1/2     | 3/8 | 13/16 | .406 | 1.50 | 5   |

### Brass Male 45° Elbow



| IBS No. | Tube OD | MPT | D    | M    | N    | Qty |
|---------|---------|-----|------|------|------|-----|
| 54X4    | 1/4     | 1/8 | .188 | .67  | .64  | 10  |
| 54X4X4  | 1/4     | 1/4 | .188 | .73  | .87  | 10  |
| 54X5    | 5/16    | 1/8 | .219 | .78  | .64  | 10  |
| 54X6    | 3/8     | 1/4 | .283 | .89  | .86  | 5   |
| 54X6X6  | 3/8     | 3/8 | .281 | .91  | .93  | 5   |
| 54X8    | 1/2     | 3/8 | .407 | 1.06 | .96  | 5   |
| 54X8X8  | 1/2     | 1/2 |      |      |      | 5   |
| 54X10   | 5/8     | 1/2 | .500 | 1.23 | 1.17 | 5   |

### Brass Male 90° Elbow



| IBS No.  | Tube OD | MPT | D    | D1   | M    | N    | Qty |
|----------|---------|-----|------|------|------|------|-----|
| 49X2     | 1/8     | 1/8 | .078 | .219 | .62  | .69  | 10  |
| 49X3     | 3/16    | 1/8 | .125 | .219 | .75  | .75  | 10  |
| 49X4     | 1/4     | 1/8 | .188 | .219 | .81  | .76  | 10  |
| 49X4X4   | 1/4     | 1/4 | .188 | .312 | .88  | .99  | 10  |
| 49X4X6   | 1/4     | 3/8 | .188 | .406 | .94  | 1.03 | 10  |
| 49X5     | 5/16    | 1/8 | .219 | .219 | .91  | .78  | 10  |
| 49X5X4   | 5/16    | 1/4 | .219 | .312 | .95  | .92  | 10  |
| 49X6X2   | 3/8     | 1/8 | .283 | .219 | 1.03 | .91  | 5   |
| 49X6     | 3/8     | 1/4 | .281 | .312 | .97  | 1.06 | 5   |
| 49X6X6   | 3/8     | 3/8 | .281 | .406 | 1.06 | 1.09 | 5   |
| 49X6X8   | 3/8     | 1/2 | .281 | .438 | 1.16 | 1.28 | 5   |
| 49X8X4   | 1/2     | 1/4 | .406 | .312 | 1.23 | 1.19 | 5   |
| 49X8     | 1/2     | 3/8 | .406 | .406 | 1.23 | 1.12 | 5   |
| 49X8X8   | 1/2     | 1/2 | .406 | .406 | 1.25 | 1.32 | 5   |
| 49X10X6  | 5/8     | 3/8 | .502 | .406 | 1.42 | 1.23 | 5   |
| 49X10    | 5/8     | 1/2 | .502 | .562 | 1.42 | 1.37 | 5   |
| 49X12    | 3/4     | 1/2 | .626 | .562 | 1.62 | 1.48 | 5   |
| 49X12X12 | 3/4     | 3/4 | .625 | .750 | 1.59 | 1.62 | 5   |

## SAE 45° Flare Brass Fittings Assortment

IBS No. 104R • 32 Items 95 Pieces

Packaged in a locking steel drawer for easy storage & organization



**SAE 45° Flare Brass Fittings**

Assortment No. 104R

|   |  |   |   |   |  |   |   |
|---|--|---|---|---|--|---|---|
| 42X8<br>1/2 SAE 45DGR<br>BRASS FLARE<br>  | 48X5<br>5/16 X 1/8 SAE<br>45DGR BRASS<br>  | 48X8<br>1/2 X 3/8 SAE<br>45DGR BRASS<br>    | 48X10X6<br>5/8 X 3/8 SAE<br>45DGR BRASS<br> | 49X5X4<br>5/16 X 1/4 SAE<br>90DGR BRASS<br> | 49X8X4<br>1/2 X 1/4 SAE<br>90DGR BRASS<br> | 54X4<br>1/4 X 1/8 SAE<br>45DGR BRASS<br>    | 54X10<br>5/8 X 1/2 SAE<br>45DGR BRASS<br> |
| 42X6<br>3/8 SAE 45DGR<br>BRASS FLARE<br>  | 48X4X4<br>1/4 X 1/4 SAE<br>45DGR BRASS<br> | 48X6X6<br>3/8 X 3/8 SAE<br>45DGR BRASS<br>  | 48X10<br>5/8 X 1/2 SAE<br>45DGR BRASS<br>   | 49X5<br>5/16 X 1/8 SAE<br>90DGR BRASS<br>   | 49X8<br>1/2 X 3/8 SAE<br>90DGR BRASS<br>   | 49X10X6<br>5/8 X 3/8 SAE<br>90DGR BRASS<br> | 54X8<br>1/2 X 3/8 SAE<br>45DGR BRASS<br>  |
| 42X5<br>5/16 SAE 45DGR<br>BRASS FLARE<br> | 48X4<br>1/4 X 1/8 SAE<br>45DGR BRASS<br>   | 48X6<br>3/8 X 1/4 SAE<br>45DGR BRASS<br>    | 48X8X8<br>1/2 X 1/2 SAE<br>45DGR BRASS<br>  | 49X4X4<br>1/4 X 1/4 SAE<br>90DGR BRASS<br>  | 49X6X6<br>3/8 X 3/8 SAE<br>90DGR BRASS<br> | 49X10<br>5/8 X 1/2 SAE<br>90DGR BRASS<br>   | 54X6<br>5/8 X 1/4 SAE<br>45DGR BRASS<br>  |
| 42X4<br>1/4 SAE 45DGR<br>BRASS FLARE<br>  | 42X10<br>5/8 SAE 45DGR<br>BRASS FLARE<br>  | 48X5X4<br>5/16 X 1/4 SAE<br>45DGR BRASS<br> | 48X8X4<br>1/2 X 1/4 SAE<br>45DGR BRASS<br>  | 49X4<br>1/4 X 1/8 SAE<br>90DGR BRASS<br>    | 49X6<br>3/8 X 1/4 SAE<br>90DGR BRASS<br>   | 49X8X8<br>1/2 X 1/2 SAE<br>90DGR BRASS<br>  | 54X5<br>5/16 X 1/8 SAE<br>45DGR BRASS<br> |



### SAE 45° Flare Brass Fittings 1/2" & 5/8"

IBS No. 104-LGR • 14 Items 36 Pieces

Packaged in a locking steel drawer for easy storage & organization





**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
INDUSTRIALBOLT.COM ●●● 800-678-1506

**SAE 45° Flare Brass Fittings**

Assortment No. 104R-LGR

|  |   |   |  |
|--|---|---|--|
| <p>42X8<br/>1/2 SAE 45DGR BRASS FLARE</p>   | <p>48X8X4<br/>1/2 X 1/4 SAE 45DGR BRASS</p>  | <p>48X8X8<br/>1/2 X 1/2 SAE 45DGR BRASS</p>    | <p>48X10<br/>5/8 X 1/2 SAE 45DGR BRASS</p>  |
| <p>42X10<br/>5/8 SAE 45DGR BRASS FLARE</p>  | <p>48X8<br/>1/2 X 3/8 SAE 45DGR BRASS</p>    | <p>48X10X6<br/>5/8 X 3/8 SAE 45DGR BRASS</p>  |  |
| <p>54X8<br/>1/2 X 3/8 SAE 45DGR BRASS</p>   | <p>49X8X4<br/>1/2 X 1/4 SAE 90DGR BRASS</p>  | <p>49X8X8<br/>1/2 X 1/2 SAE 90DGR BRASS</p>    | <p>49X10<br/>5/8 X 1/2 SAE 90DGR BRASS</p>  |
| <p>54X10<br/>5/8 X 1/2 SAE 45DGR BRASS</p>  | <p>49X8<br/>1/2 X 3/8 SAE 90DGR BRASS</p>    | <p>49X10X6<br/>5/8 X 3/8 SAE 90DGR BRASS</p>   |  |

### SAE 45° Flare Brass Fittings 1/4," 5/16," 3/8"

IBS No. 104-SML • 18 Items 58 Pieces

Packaged in a locking steel drawer for easy storage & organization.





**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
INDUSTRIALBOLT.COM ●●● 800-678-1506

**SAE 45° Flare Brass Fittings**

Assortment No. 104R-SML

|   |  |  |  |
|---|--|--|--|
| <p>42X4<br/>1/4 SAE 45DGR BRASS FLARE</p>    | <p>42X5<br/>5/16 SAE 45DGR BRASS FLARE</p>    | <p>42X6<br/>3/8 SAE 45DGR BRASS FLARE</p>     | <p>54X4<br/>1/4 X 1/8 SAE 45DGR BRASS</p>   |
| <p>48X4<br/>1/4 X 1/8 SAE 45DGR BRASS</p>    | <p>48X5<br/>5/16 X 1/8 SAE 45DGR BRASS</p>    | <p>48X6<br/>3/8 X 1/4 SAE 45DGR BRASS</p>     | <p>54X5<br/>5/16 X 1/8 SAE 45DGR BRASS</p>  |
| <p>48X4X4<br/>1/4 X 1/4 SAE 45DGR BRASS</p>  | <p>48X5X4<br/>5/16 X 1/4 SAE 45DGR BRASS</p>  | <p>48X6X6<br/>3/8 X 3/8 SAE 45DGR BRASS</p>  | <p>54X6<br/>3/8 X 1/4 SAE 45DGR BRASS</p>   |
| <p>49X4<br/>1/4 X 1/8 SAE 90DGR BRASS</p>    | <p>49X5<br/>5/16 X 1/8 SAE 90DGR BRASS</p>    | <p>49X6<br/>3/8 X 1/4 SAE 90DGR BRASS</p>     |  |
| <p>49X4X4<br/>1/4 X 1/4 SAE 90DGR BRASS</p>  | <p>49X5X4<br/>5/16 X 1/4 SAE 90DGR BRASS</p>  | <p>49X6X6<br/>3/8 X 3/8 SAE 90DGR BRASS</p>   |  |

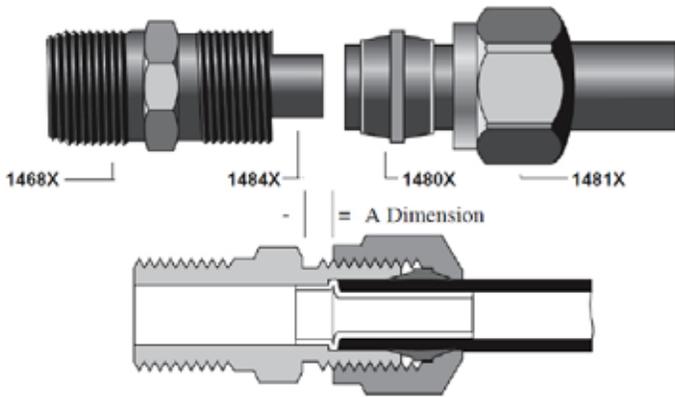
**F I T T I N G S**



# IBS, INCORPORATED

## Nylon Air Brake Fittings O07

### Air Brake Fittings for Nylon Tubing



- Easy to assemble - no tube preparation or flaring required.
- May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve.
- Use on air brake systems except where temps exceed +200°F or where battery acid can drip on tubing.
- Use with NT100 Nylon tubing - SAE J844 Type A & B.
- Maximum operating pressure - 150 psi.
- Has a temperature range of 40° F to +200° F.
- Offers a fair resistance to vibration.

| Tube O.D.   | 1/4     | 3/8      | 1/2      | 5/8      | 3/4  |
|-------------|---------|----------|----------|----------|------|
| Thread Size | 7/16-14 | 17/32-24 | 11/16-20 | 13/16-18 | 1-18 |

### 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 pre-assembled fitting. Be sure tubing is bottomed in fitting.
4. Tighten nut to required torque as indicated on chart. Another check on proper assembly is dimension A also noted on chart.

| Tube Size | Torque            | A Dimension |
|-----------|-------------------|-------------|
| 1/4       | 7 to 9.6 ft. lbs. | .085 / .105 |
| 3/8       | 12 to 17 ft. lbs. | .125 / .145 |
| 1/2       | 25 to 33 ft. lbs. | .100 / .120 |
| 5/8       | 26 to 35 ft. lbs. | .115 / .135 |
| 3/4       | 38 to 50 ft. lbs. | .180 / 200  |

**Disassembly** - 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 and torque as in step 4.

FITTINGS



#### AIR BRAKE NUT

| IBS No. | Tube Size | Qty |
|---------|-----------|-----|
| 1461x4  | 1/4       | 10  |
| 1461x6  | 3/8       | 10  |
| 1461x8  | 1/2       | 5   |
| 1461x10 | 5/8       | 5   |
| 1461x12 | 3/4       | 5   |



#### AIR BRAKE SLEEVE

| IBS No. | Tube Size | Qty |
|---------|-----------|-----|
| 1460x4  | 1/4       | 10  |
| 1460x6  | 3/8       | 10  |
| 1460x8  | 1/2       | 10  |
| 1460x10 | 5/8       | 10  |
| 1460x12 | 3/4       | 10  |



#### AIR BRAKE INSERT

| IBS No. | Tube Size | Qty |
|---------|-----------|-----|
| 1484x4  | 1/4       | 20  |
| 1484x6  | 3/8       | 20  |
| 1484x8  | 1/2       | 10  |
| 1484x10 | 5/8       | 10  |
| 1484x12 | 3/4       | 10  |



#### AIR BRAKE UNION

| IBS No. | Tube Size | Qty |
|---------|-----------|-----|
| 1462x4  | 1/4       | 5   |
| 1462x6  | 3/8       | 5   |
| 1462x8  | 1/2       | 3   |
| 1462x10 | 5/8       | 1   |
| 1462x12 | 3/4       | 1   |

# IBS, INCORPORATED

## Nylon Air Brake Fittings O07



### AIR BRAKE MALE CONNECTORS

| IBS No.    | Tube Size | MPT | Qty |
|------------|-----------|-----|-----|
| 1468x4     | 1/4       | 1/8 | 5   |
| 1468x4x4   | 1/4       | 1/4 | 5   |
| 1468x4x6   | 1/4       | 3/8 | 5   |
| 1468x6x2   | 3/8       | 1/8 | 5   |
| 1468x6     | 3/8       | 1/4 | 5   |
| 1468x6x6   | 3/8       | 3/8 | 5   |
| 1468x6x8   | 3/8       | 1/2 | 5   |
| 1468x8x4   | 1/2       | 1/4 | 5   |
| 1468x8     | 1/2       | 3/8 | 5   |
| 1468x8x8   | 1/2       | 1/2 | 5   |
| 1468x8x12  | 1/2       | 3/4 | 2   |
| 1468x10x6  | 5/8       | 3/8 | 2   |
| 1468x10    | 5/8       | 1/2 | 2   |
| 1468x10x12 | 5/8       | 3/4 | 2   |
| 1468x12    | 3/4       | 1/2 | 1   |
| 1468x12x12 | 3/4       | 3/4 | 1   |



### 90° UNION

| IBS No. | Tube Size | Qty |
|---------|-----------|-----|
| 1465x4  | 1/4       | 5   |
| 1465x6  | 3/8       | 5   |
| 1465x8  | 1/2       | 3   |
| 1465x10 | 5/8       | 2   |



### AB 45° MALE ELBOWS

| IBS No.   | Tube Size | MPT | Qty |
|-----------|-----------|-----|-----|
| 1480x4    | 1/4       | 1/8 | 5   |
| 1480x4x4  | 1/4       | 1/4 | 5   |
| 1480x6    | 3/8       | 1/4 | 5   |
| 1480x6x6  | 3/8       | 3/8 | 5   |
| 1480x8x4  | 1/2       | 1/4 | 4   |
| 1480x8    | 1/2       | 3/8 | 4   |
| 1480x8x8  | 1/2       | 1/2 | 4   |
| 1480x10   | 5/8       | 1/2 | 2   |
| 1480x12x8 | 3/4       | 1/2 | 1   |



### AIR BRAKE 90° MALE ELBOWS

| IBS No.    | Tube Size | MPT | Qty |
|------------|-----------|-----|-----|
| 1469x4     | 1/4       | 1/8 | 5   |
| 1469x4x4   | 1/4       | 1/4 | 5   |
| 1469x4x6   | 1/4       | 3/8 | 5   |
| 1469x6x2   | 3/8       | 1/8 | 5   |
| 1469x6     | 3/8       | 1/4 | 5   |
| 1469x6x6   | 3/8       | 3/8 | 5   |
| 1469x6x8   | 3/8       | 1/2 | 5   |
| 1469x8x4   | 1/2       | 1/4 | 3   |
| 1469x8     | 1/2       | 3/8 | 3   |
| 1469x8x8   | 1/2       | 1/2 | 3   |
| 1469x10x6  | 5/8       | 3/8 | 2   |
| 1469x10    | 5/8       | 1/2 | 2   |
| 1469x10x12 | 5/8       | 3/4 | 2   |
| 1469x12    | 3/4       | 1/2 | 1   |
| 1469x12x12 | 3/4       | 3/4 | 1   |



### AIR BRAKE TEES

| IBS No. | Tube Size | Qty |
|---------|-----------|-----|
| 1464x4  | 1/4       | 5   |
| 1464x6  | 3/8       | 5   |
| 1464x8  | 1/2       | 3   |
| 1464x10 | 5/8       | 2   |

FITTINGS



# IBS, INCORPORATED

## Assortments Z02

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### 1/4 & 3/8 Air Brake Fittings for Nylon Tubing

IBS No. 192R

20 Items • 121 Pcs

Packaged in a locking steel drawer for easy storage and organization



| IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR INDUSTRIALBOLT.COM © © © 800-678-1906 |  |  |  |  | Nylon Air Brake Fittings<br>1/4" & 3/8" |
|---|--|--|--|--|---|
| 192R  |  |  |  |  |   |
| 1460X4<br>1/4 BRASS A/B SLEEVE  | 1461X4<br>1/4 BRASS A/B NUT                  | 1462X4<br>1/4 BRASS A/B UNION                | 1468X4<br>1/4 X 1/8 BRASS A/B M CONN       | 1468X4X4<br>1/4 X 1/4 BRASS A/B M CONN |   |
| 1469X4<br>1/4 X 1/8 BRASS A/B 90DGR M.CONN  | 1469X4X4<br>1/4 X 1/4 BRASS A/B 90DGR M CONN | 1480X4<br>1/4 X 1/8 BRASS A/B 45DGR M CONN   | 1484X4<br>1/4 BRASS A/B INSERT             | 1460X6<br>3/8 BRASS A/B SLEEVE         |   |
| 1461X6<br>3/8 BRASS A/B NUT   | 1462X6<br>3/8 BRASS A/B UNION                | 1468X6<br>3/8 X 1/4 BRASS A/B M CONN         | 1468X6X2<br>3/8 X 1/8 BRASS A/B M CONN     | 1468X6X6<br>3/8 X 3/8 BRASS A/B M CONN |   |
| 1469X6<br>3/8 X 1/4 BRASS A/B 90DGR M CONN  | 1469X6X2<br>3/8 X 1/8 BRASS A/B 90DGR M CONN | 1469X6X6<br>3/8 X 3/8 BRASS A/B 90DGR M CONN | 1480X6<br>3/8 X 1/4 BRASS A/B 45DGR M CONN | 1484X6<br>3/8 BRASS A/B INSERT         |   |

### 1/2" Air Brake Fittings for Nylon Tubing

IBS No. 193R

11 Items • 68 Pcs

Packaged in a locking steel drawer for easy storage and organization



| IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR INDUSTRIALBOLT.COM © © © 800-678-1906 |   |                                     |                                       | 1/2" Nylon Air Brake Fittings |
|---|---|-------------------------------------|---------------------------------------|-------------------------------|
| Assortment No. 193R   |   |                                     |                                       |                               |
| 1460X8<br>1/2 BRASS A/B SLEEVE  | 1461X8<br>1/2 BRASS A/B NUT             | 1462X8<br>1/2 BRASS A/B UNION       | 1468X8<br>1/2 X 3/8 BRASS A/B M. CONN |                               |
| 1468X8X4<br>1/2 X 1/4 BRASS A/B M. CONN   | 1468X8X8<br>1/2 X 1/2 BRASS A/B M. CONN | 1469X8<br>1/2 X 3/8 BRASS A/B 90DGR | 1469X8X4<br>1/2 X 1/4 BRASS A/B 90DGR |                               |
| 1469X8X8<br>1/2 X 1/2 BRASS A/B 90DR  | 1480X8<br>1/2 X 3/8 BRASS A/B 45DGR     | 1484X8<br>1/2 BRASS A/B INSERT      |                                       |                               |
|   |   |                                     |                                       |                               |

### 5/8" Air Brake Fittings for Nylon Tubing

IBS No. 217R

11 Items • 25 Pcs

Packaged in a locking steel drawer for easy storage and organization



| IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR INDUSTRIALBOLT.COM © © © 800-678-1906 |   |  | 5/8" Air Brake Fittings for Nylon |
|---|---|--|-----------------------------------|
| Assortment No. 217R   |   |  |                                   |
| 1460X10<br>5/8 BRASS A/B SLEEVE   | 1461X10<br>5/8 BRASS A/B NUT            | 1462X10<br>5/8 BRASS A/B UNION           |                                   |
| 1468X10<br>5/8 X 1/2 BRASS A/B M. CONN  | 1468X10X6<br>5/8 X 3/8 BRASS A/B M CONN | 1468X10X12<br>5/8 X 3/4 BRASS A/B M CONN |                                   |
| 1469X10<br>5/8 X 1/2 BRASS A/B 90DGR  | 1469X10X6<br>5/8 X 3/8 BRASS A/B 90DGR  | 1469X10X12<br>5/8 X 3/4 BRASS A/B 90DGR  |                                   |
| 1480X10<br>5/8 X 1/2 BRASS A/B 45DR   | 1484X10<br>5/8 BRASS A/B INSERT         |  |                                   |



### Air Brake Fittings For Hose

- Can be used for nearly any air brake line.
- Easy to assemble with a good selection of hose end configurations.
- Brass material offers excellent resistance against corrosion.
- Typical application : Air brake hose lines.
- Pressure : Determined by maximum working pressure for hose size,



#### Assembly Information

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.

#### Male Connectors

| IBS No. | W'Head #   | Hose I.D. | Pipe Size | Overall Length | Hose Cut-Off Factor * | Qty |
|---------|------------|-----------|-----------|----------------|-----------------------|-----|
| W15540  | 33806B-Y24 | 3/8       | 1/4       | 2.26           | 11/16                 | 5   |
| W24887  | 33806B-Y26 | 3/8       | 3/8       | 2.35           | 13/16                 | 5   |
| W15539  | 33806B-Y28 | 3/8       | 1/2       | 2.45           | 15/16                 | 5   |
| W33883  | 33808B-Y26 | 1/2       | 3/8       | 2.24           | 3/4                   | 5   |
| W33884  | 33808B-Y28 | 1/2       | 1/2       | 2.40           | 15/16                 | 5   |



#### Male Connectors with Spring Guard

| IBS No. | W'Head #   | Hose I.D. | Pipe Size | Overall Length | Hose Cut-Off Factor * | Qty |
|---------|------------|-----------|-----------|----------------|-----------------------|-----|
| W15536  | 33806B-Y34 | 3/8       | 1/4       | 4.75           | 3/4                   | 5   |
| W23907  | 33806B-Y36 | 3/8       | 3/8       | 4.74           | 13/16                 | 5   |
| W15535  | 33806B-Y38 | 3/8       | 1/2       | 4.88           | 15/16                 | 5   |
| W33885  | 33808B-Y36 | 1/2       | 3/8       | 5.12           | 3/4                   | 5   |
| W33886  | 33808B-Y38 | 1/2       | 1/2       | 4.88           | 15/16                 | 5   |



#### Female Connectors with Adapter

| IBS No. | W'Head #   | Hose I.D. | Pipe Size | Overall Length | Hose Cut-Off Factor * | Qty |
|---------|------------|-----------|-----------|----------------|-----------------------|-----|
| W26293  | 33806B-Y84 | 3/8       | 1/4       | 3.33           | 1-13/16               | 5   |
| W33808  | 33806B-Y86 | 3/8       | 3/8       | 3.33           | 1-3/4                 | 5   |
| W33882  | 33808B-Y86 | 1/2       | 3/8       | 3.30           | 1-3/4                 | 5   |



#### Female Connectors

| IBS No. | W'Head #   | Hose I.D. | Thread Size | Overall Length | Hose Cut-Off Factor * | Qty |
|---------|------------|-----------|-------------|----------------|-----------------------|-----|
| W26292  | 33806B-Y76 | 3/8       | 3/4-20      | 2.40           | 7/8                   | 4   |



#### Adapters

| IBS No. | W'Head # | Pipe Size | Overall Length | ABS Thread | ABS Swivel | Qty |
|---------|----------|-----------|----------------|------------|------------|-----|
| W33807  | 1390X6X6 | 3/8       | 1.18           | 3/4-20     | 3/8        | 5   |
| W33805  | 1390X8   | 3/8       | 1.18           | 7/8-20     | 1/2        | 5   |



\* To determine the correct length of hose, subtract the cut-off factor for each end fitting from the overall length of the assembly.

FITTINGS



# IBS, INCORPORATED

## Air Brake Fittings for Hose O08

FITTINGS

### Insert



| IBS No. | W'Head # | Hose I.D. | Pipe Size | Qty |
|---------|----------|-----------|-----------|-----|
| W15993  | 1391X6   | 3/8       | 1/4       | 5   |
| W33470  | 1391X6X6 | 3/8       | 3/8       | 5   |
| W15992  | 1391X6X8 | 3/8       | 1/2       | 5   |
| W33888  | 1391X8X6 | 1/2       | 3/8       | 5   |
| W33889  | 1391X8X8 | 1/2       | 1/2       | 5   |

### Sleeves



| IBS No. | W'Head # | I.D. | Qty |
|---------|----------|------|-----|
| W03610  | 33806-A  | 3/8  | 10  |
| W33801  | 33808-A  | 1/2  | 10  |

### Nuts



| IBS No. | W'Head # | I.D. | Qty |
|---------|----------|------|-----|
| W03624  | 33806-B  | 3/8  | 5   |
| W33802  | 33808-B  | 1/2  | 5   |

### Nut & Spring Assembly



| IBS No. | W'Head # | I.D. | Qty |
|---------|----------|------|-----|
| W14946  | 33806-BC | 3/8  | 5   |
| W14948  | 33808-BC | 1/2  | 5   |

### Brass Nut with Spring Guard



| IBS No. | W'Head # | I.D. | Qty |
|---------|----------|------|-----|
| W03613  | 33806-D  | 3/8  | 5   |
| W33803  | 33808-D  | 1/2  | 5   |

### Brass Air Brake Hose Mender



| IBS No. | W'Head #   | Hose I.D. | Overall Length | Qty |
|---------|------------|-----------|----------------|-----|
| W16678  | 33806B-Y06 | 3/8       | 3.25           | 1   |
| W33887  | 33808B-Y08 | 1/2       | 3.25           | 1   |

### Draincock for Air Brake Hose Systems

Valves are designed to hold air pressure of 150 psi with one 1/4" air bubble in 5 seconds permissible key leakage.



| IBS No. | W'Head # | MPT | Hex  | L    | Qty |
|---------|----------|-----|------|------|-----|
| W15310  | W15310   | 3/8 | 9/16 | 1.00 | 3   |

## Air Brake Fittings for Hose Assortment (Z02)

IBS No. 149R • 13 Items • 35 Pieces

Packaged in a locking steel drawer for easy storage & organization

### Air Brake Fittings for Hose

Assortment No. 149R

|   |   |   |   |
|---|---|---|---|
| <p><b>W15536</b><br/>3/8 X 1/4 AIR BRAKE MALE CONNECTOR WITH SPRING GUARD</p> | <p><b>W15539</b><br/>3/8 X 1/2 AIR BRAKE MALE CONNECTOR</p> | <p><b>W23907</b><br/>3/8 X 3/8 AIR BRAKE MALE CONNECTOR WITH SPRING GUARD</p> | <p><b>W33886</b><br/>1/2 x 1/2 AIR BRAKE MALE CONNECTOR WITH SPRING GUARD</p> |
| <p><b>W15535</b><br/>3/8 X 1/2 AIR BRAKE MALE CONNECTOR WITH SPRING GUARD</p> | <p><b>W03624</b><br/>3/8 AIR BRAKE NUT</p>                  | <p><b>W16678</b><br/>3/8 AIR BRAKE HOSE MENDER</p>                            | <p><b>W33802</b><br/>1/2 AIR BRAKE NUT</p>                                    |
| <p><b>W03613</b><br/>3/8 AIR BRAKE NUT FOR SPRING GUARD</p>                   | <p><b>W03610</b><br/>3/8 AIR BRAKE SLEEVE</p>               | <p><b>W15540</b><br/>3/8 X 1/4 AIR BRAKE MALE CONNECTOR</p>                   | <p><b>W33801</b><br/>1/2 AIR BRAKE SLEEVE</p>                                 |
|   |   |   |   |



### Air Brake Fitting Assortment for 3/8" Hose

IBS No. 844R • 12 Items • 30 Pieces

Packaged in locking steel drawer for easy storage & organization



#### Air Brake Fittings For 3/8" Hose

Assortment No. 844R

|  |  |  |  |
|--|--|--|--|
| <p><b>W15536</b><br/>3/8 X 1/4 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR W/ SPRING</p>  | <p><b>W15540</b><br/>3/8 X 1/4 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR</p>  | <p><b>W16678</b><br/>3/8 AIR BRAKE FOR HOSE MENDER</p>                   | <p><b>W33470</b><br/>3/8 X 3/8 BRASS AIR HOSE CONN</p>            |
| <p><b>W23907</b><br/>3/8 X 3/8 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR W/ SPRING</p>  | <p><b>W24887</b><br/>3/8 X 3/8 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR</p>  | <p><b>W03624</b><br/>3/8 AIR BRAKE FOR HOSE NUT</p>                       | <p><b>W15992</b><br/>3/8 X 1/2 AIR BRAKE FOR HOSE<br/>INSERT</p>  |
| <p><b>W15535</b><br/>3/8 X 1/2 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR W/ SPRING</p>  | <p><b>W15539</b><br/>3/8 X 1/2 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR</p>  | <p><b>W03613</b><br/>3/8 AIR BRAKE FOR HOSE NUT FOR<br/>SPRING GUARD</p>  | <p><b>W03610</b><br/>3/8 AIR BRAKE FOR HOSE SLEEVE</p>            |



### Air Brake Fitting Assortment for 1/2" Hose

IBS No. 845R • 9 Items • 22 Pieces

Packaged in locking steel drawer for easy storage & organization



#### Air Brake Fittings For 1/2" Hose

Assortment No. 845R

|  |  |  |  |
|--|--|--|--|
| <p><b>W33885</b><br/>1/2 X 3/8 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR W/ SPRING</p>  | <p><b>W33883</b><br/>1/2 X 3/8 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR</p>  | <p><b>W33887</b><br/>1/2 AIR BRAKE FOR HOSE MENDER</p>                   | <p><b>W33889</b><br/>1/2 X 1/2 AIR BRAKE FOR HOSE<br/>INSERT</p>  |
| <p><b>W33886</b><br/>1/2 X 1/2 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR W/ SPRING</p>  | <p><b>W33884</b><br/>1/2 X 1/2 AIR BRAKE FOR HOSE<br/>MALE CONNECTOR</p>  | <p><b>W33802</b><br/>1/2 AIR BRAKE FOR HOSE NUT</p>                       | <p><b>W33801</b><br/>1/2 AIR BRAKE FOR HOSE SLEEVE</p>            |
|  |  | <p><b>W33803</b><br/>1/2 AIR BRAKE FOR HOSE NUT FOR<br/>SPRING GUARD</p>  |  |



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# IBS, INCORPORATED

## Air Brake Fittings for Hose O08

### Gladhand Couplings



393 UNIV      393 SER      393 EME

| IBS No. | Application                           | Qty |
|---------|---------------------------------------|-----|
| 393UNIV | Universal — Connect to all 3 styles   | 1   |
| 393SER  | Service — Connect only to service     | 1   |
| 393EME  | Emergency — Connect only to emergency | 1   |

### Gladhand Coupling Seals



394 GL      394GLB      394GLR      394GLP      394GLS

| IBS No. | Application   | Qty |
|---------|---|-----|
| 394GL   | Gladhand Air Coupling Seal — Double Lip             | 10  |
| 394GLB  | Gladhand Air Coupling Seal — Blue (Service)         | 10  |
| 394GLR  | Gladhand Air Coupling Seal — Red (Emergency)        | 10  |
| 394GLP  | Gladhand Air Coupling Seal — Dust Flap              | 10  |
| 394GLS  | Gladhand Air Coupling Seal — Stainless Steel Screen | 10  |

F I T T I N G S

### Gladhand Seals Assortment (Z02)

IBS No. 826R • 9 Items • 32 Pieces

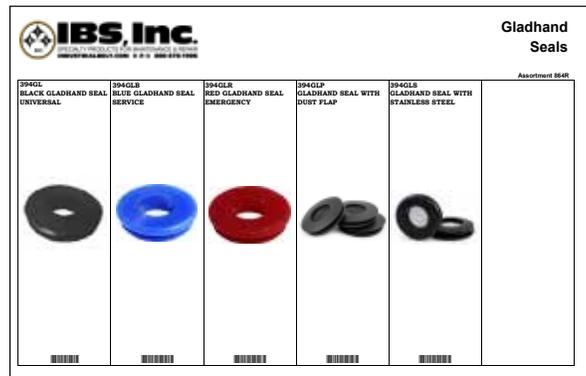
Packaged in a locking steel drawer for easy storage & organization



### Gladhand Seals Travel Tray (Z03)

IBS No. 864R • 5 Items • 45 Pieces

Packaged in a locking plastic tray for easy storage & organization

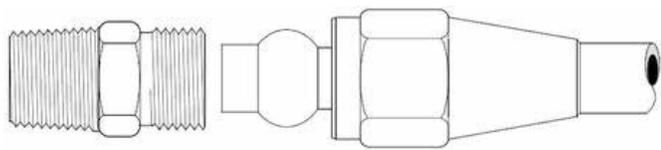


# IBS, INCORPORATED

## Air Brake Fittings for Copper Tubing O04



### Air Brake Fittings for Copper Tubing



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

- Easy Assembly - no flaring necessary.
- Can be used with nylon tubing by replacing long nut and spherical sleeve with insert, rigid sleeve and nut.
- For use with copper tubing in air brake systems.
- Offers a fair resistance to vibration.
- Temperature range from -65° F to +250° F with copper tubing.
- Operating pressure up to 150 psi.
- Meets specifications and standards of SAE & DOT.

#### Assembly Instructions

1. Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.
2. Slide nut and then sleeve on tubing. Threaded end of nut must face toward fitting body.
3. Insert tubing into fitting. Be sure tubing is bottomed on fitting shoulder.
4. Thread nut onto fitting body until it is hand tight.
5. From that point, tighten with a wrench the number of turns indicated in the chart below.

| Tube Size     | Additional No. Of Turns from Hand Tight |
|---------------|---|
| 1/4, 3/8      | 1-3/4                                   |
| 1/2, 5/8, 3/4 | 3-1/4                                   |



#### SLEEVE

| IBS No. | W'Head # | Tube O.D. | Qty |
|---------|----------|-----------|-----|
| W00457  | 1360x4   | 1/4       | 20  |
| W00361  | 1360x6   | 3/8       | 20  |
| W03754  | 1360x8   | 1/2       | 10  |
| W10612  | 1360x10  | 5/8       | 10  |



#### NUTS

| IBS No. | W'Head # | Tube O.D. | Hex   | Qty |
|---------|----------|-----------|-------|-----|
| W00455  | 1361x4   | 1/4       | 9/16  | 10  |
| W00360  | 1361x6   | 3/8       | 5/8   | 10  |
| W03755  | 1361x8   | 1/2       | 13/16 | 5   |
| W10613  | 1361x10  | 5/8       | 15/16 | 2   |



#### UNIONS

| IBS No. | W'Head # | Tube O.D. | Hex   | Qty |
|---------|----------|-----------|-------|-----|
| W05514  | 1362x4   | 1/4       | 7/16  | 5   |
| W05134  | 1362x6   | 3/8       | 9/16  | 5   |
| W15710  | 1362x8   | 1/2       | 11/16 | 3   |
| W21826  | 1362x10  | 5/8       | 13/16 | 1   |



#### MALE CONNECTOR

| IBS No. | W'Head #  | Tube O.D. | MPT | Hex   | Qty |
|---------|-----------|-----------|-----|-------|-----|
| W05127  | 1368x4    | 1/4       | 1/8 | 7/16  | 5   |
| W05183  | 1368x4x4  | 1/4       | 1/4 | 9/16  | 5   |
| W05509  | 1368x6x2  | 3/8       | 1/8 | 9/16  | 5   |
| W05053  | 1368x6    | 3/8       | 1/4 | 9/16  | 5   |
| W05824  | 1368x6x6  | 3/8       | 3/8 | 11/16 | 5   |
| W22063  | 1368x6x8  | 3/8       | 1/2 | 7/8   | 5   |
| W17690  | 1368x8x4  | 1/2       | 1/4 | 11/16 | 5   |
| W17525  | 1368x8    | 1/2       | 3/8 | 11/16 | 5   |
| W17691  | 1368x8x8  | 1/2       | 1/2 | 7/8   | 5   |
| W16685  | 1368x10x6 | 5/8       | 3/8 | 13/16 | 2   |
| W16684  | 1368x10   | 5/8       | 1/2 | 7/8   | 2   |



#### FEMALE CONNECTOR

| IBS No. | W'Head # | Tube O.D. | FPT | Hex  | Qty |
|---------|----------|-----------|-----|------|-----|
| W05418  | 1366x6x2 | 3/8       | 1/8 | 9/16 | 5   |
| W05827  | 1366x6x6 | 3/8       | 3/8 | 7/8  | 3   |
| W15711  | 1366x8   | 1/2       | 3/8 | 7/8  | 3   |

FITTINGS



# IBS, INCORPORATED

## Air Brake Fittings for Copper Tubing O04

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### 45° MALE ELBOW

| IBS No. | W'Head # | Tube O.D. | MPT | Qty |
|---------|----------|-----------|-----|-----|
| W20722  | 1380x6   | 3/8       | 1/4 | 5   |
| W20291  | 1380x6x6 | 3/8       | 3/8 | 5   |
| W20292  | 1380x8   | 1/2       | 3/8 | 4   |



### 90° MALE ELBOW

| IBS No. | W'Head # | Tube O.D. | MPT | Qty |
|---------|----------|-----------|-----|-----|
| W05539  | 1369x4   | 1/4       | 1/8 | 5   |
| W24318  | 1369x4x4 | 1/4       | 1/4 | 5   |
| W05522  | 1369x6x2 | 3/8       | 1/8 | 5   |
| W05102  | 1369x6   | 3/8       | 1/4 | 5   |
| W05829  | 1369x6x6 | 3/8       | 3/8 | 5   |
| W22062  | 1369x6x8 | 3/8       | 1/2 | 5   |
| W20475  | 1369x8x4 | 1/2       | 1/4 | 3   |
| W15709  | 1369x8   | 1/2       | 3/8 | 3   |
| W16310  | 1369x8x8 | 1/2       | 1/2 | 3   |



### UNION TEE

| IBS No. | W'Head # | Tube O.D. | Qty |
|---------|----------|-----------|-----|
| W05106  | 1364x6   | 3/8       | 3   |
| W15712  | 1364x8   | 1/2       | 3   |



### MALE RUN TEE

| IBS No. | W'Head #   | Tube O.D. | MPT | Qty |
|---------|------------|-----------|-----|-----|
| W05104  | 1371x6     | 3/8       | 1/4 | 3   |
| W17050  | 1371x6x6x6 | 3/8       | 3/8 | 3   |
| W15701  | 1371x8     | 1/2       | 3/8 | 3   |



### Eaton-Fuller Compression Fittings

Used on Eaton-Fuller Transmission Shifters



#### SPLIT SLEEVE

| IBS No. | Tube O.D. | Qty |
|---------|-----------|-----|
| 660A    | 1/8       | 20  |
| 660B    | 5/32      | 20  |



#### NUT

| IBS No. | Tube O.D. | Qty |
|---------|-----------|-----|
| 661A    | 1/8       | 10  |
| 661B    | 5/32      | 10  |



#### UNION

| IBS No. | Tube O.D. | Qty |
|---------|-----------|-----|
| 662A    | 1/8       | 5   |
| 662B    | 5/32      | 5   |



#### MALE CONNECTOR

| IBS No. | Tube O.D. | NPT  | Qty |
|---------|-----------|------|-----|
| 668A    | 1/8       | 1/8  | 5   |
| 668B    | 5/32      | 1/8  | 5   |
| 668AS   | 1/8       | 1/16 | 5   |
| 668BS   | 5/32      | 1/16 | 5   |



#### MALE ELBOW

| IBS No. | Tube O.D. | NPT | Qty |
|---------|-----------|-----|-----|
| 669A    | 1/8       | 1/8 | 5   |
| 669B    | 5/32      | 1/8 | 5   |

## Fuller Transmission Fittings Assortment (Z02)

IBS No. 179R • 20 Items • 95 Pcs

Packaged in a locking steel drawer for easy storage & organization



**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
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### Fuller Transmission Fittings Compression & Push-On 1/8 & 5/32

Assortment No. 179R

|  |   |   |  |  |   |
|--|---|---|--|--|---|
| <p>660A<br/>1/8 SLEEVE FULLER TRANS</p>  | <p>669A<br/>1/8X1/8 M ELBOW FULLER TRANS</p>  | <p>668AS<br/>1/8X1/16 M CONN FULLER TRANS</p>   | <p>1169X2X2S<br/>1/8X1/8 90DGR M SWIV ELB POLY</p> | <p>56822<br/>1/8 X 1/8 M CONN POLY PUSH NP</p> | <p>1162X2<br/>1/8 UNION POLY PUSH NP BRASS</p>  |
| <p>660B<br/>5/32 SLEEVE FULLER TRANS</p> | <p>669B<br/>5/32X1/8 M ELBOW FULLER TRANS</p> | <p>668A<br/>1/8X1/8 M CONN FULLER TRANS</p>     | <p>1169X3X2S<br/>5/32X1/8 90DGR M SWIV ELB</p>     | <p>56832<br/>5/32 X 1/8 M CONN POLY PUSH</p>   | <p>1162X3<br/>5/32 UNION POLY PUSH NP BRASS</p> |
| <p>661A<br/>1/8 NUT FULLER TRANS</p>     | <p>662A<br/>1/8 UNION FULLER TRANS</p>        | <p>668BS<br/>5/32 X1/16 M CONN FULLER TRANS</p> | <p>1169X3X4S<br/>5/32X1/4 90DGR M SWIV ELB</p>     | <p>56834<br/>5/32 X 1/4 M CONN POLY PUSH</p>   |   |
| <p>661B<br/>5/32 NUT FULLER TRANS</p>    | <p>662B<br/>5/32 UNION FULLER TRANS</p>       | <p>668B<br/>5/32X1/8 M CONN FULLER TRANS</p>    |  |  |   |



FITTINGS



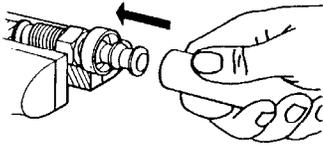
# IBS, INCORPORATED

## Low Pressure Push-On Fittings O10 Low-Pressure Push-On Hose Fittings

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

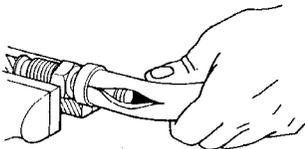
- No clamps required.
- Parts have been tested to max 150 PSI. Easy to assemble - Simply push the fitting onto hose (Pressure determined by tube material and hardness).

### Assembly Instructions



1. Lubricate insert
2. Hold hose at angle shown and 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.)

### Disassembly Instructions



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

*Note: To determine the correct length of hose, subtract the cut-off factor (H.C.O.F.) for each end fitting from the overall length of the assembly.*



**HOSE MENDER**

| IBS No.    | Hose | O.A.L. | H.C.O.F. | Qty |
|------------|------|--------|----------|-----|
| 10004B-Y04 | 1/4  | 1.87   | 1/2      | 5   |
| 10005B-Y05 | 5/16 | 1.80   | 7/16     | 5   |
| 10006B-Y06 | 3/8  | 2.00   | 7/16     | 5   |
| 10008B-Y08 | 1/2  | 2.01   | 1/2      | 5   |
| 10010B-Y10 | 5/8  | 3.03   | 5/8      | 5   |
| 10012B-Y12 | 3/4  | 3.03   | 5/8      | 5   |



**MALE PIPE RIGID**

| IBS No.    | Hose | MPT    | O.A.L. | H.C.O.F. | Qty |
|------------|------|--------|--------|----------|-----|
| 10004B-102 | 1/4  | 1/8-27 | 1.43   | 11/16    | 5   |
| 10004B-104 | 1/4  | 1/4-18 | 1.66   | 7/8      | 5   |
| 10005B-102 | 5/16 | 1/8-27 | 1.42   | 11/16    | 5   |
| 10005B-104 | 5/16 | 1/4-18 | 1.66   | 7/8      | 5   |
| 10006B-102 | 3/8  | 1/8-27 | 1.53   | 11/16    | 5   |
| 10006B-104 | 3/8  | 1/4-18 | 1.69   | 7/8      | 5   |
| 10006B-106 | 3/8  | 3/8-18 | 1.76   | 7/8      | 5   |
| 10008B-104 | 1/2  | 1/4-18 | 1.76   | 7/8      | 5   |
| 10008B-106 | 1/2  | 3/8-18 | 1.76   | 15/16    | 5   |
| 10008B-108 | 1/2  | 1/2-14 | 1.97   | 7/8      | 5   |
| 10010B-108 | 5/8  | 1/2-14 | 2.45   | 1-3/16   | 5   |
| 10012B-112 | 3/4  | 3/4-14 | 2.45   | 1-1/4    | 5   |

*\* Note: To determine the correct length of hose, subtract the cut-off factor (H.C.O.F.) for each end fitting from the overall length of the assembly.*

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# IBS, INCORPORATED

## Low Pressure Push-On Fittings O10



**SAE 45° FLARE MALE RIGID**

| IBS No.    | Hose | Tube | Thread  | OAL  | H.C.O.F.* | Qty |
|------------|------|------|---------|------|-----------|-----|
| 10004B-304 | 1/4  | 1/4  | 7/16-20 | 1.45 | 13/16     | 5   |
| 10004B-305 | 1/4  | 5/16 | 1/2-20  | 1.59 | 15/16     | 5   |
| 10005B-305 | 5/16 | 5/16 | 1/2-20  | 1.60 | 15/16     | 5   |
| 10006B-306 | 3/8  | 3/8  | 5/8-18  | 1.83 | 1         | 5   |



**FEMALE INVERTED RIGID**

| IBS No.    | Hose | Tube | Thread  | OAL  | H.C.O.F.* | Qty |
|------------|------|------|---------|------|-----------|-----|
| 10004B-A03 | 1/4  | 3/16 | 3/8-24  | 1.12 | 1/2       | 5   |
| 10004B-A04 | 1/4  | 1/4  | 7/16-24 | 1.14 | 1/2       | 5   |
| 10004B-A05 | 1/4  | 5/16 | 1/2-20  | 1.18 | 9/16      | 5   |
| 10005B-A05 | 5/16 | 5/16 | 1/2-20  | 1.25 | 9/16      | 5   |
| 10006B-A05 | 3/8  | 5/16 | 1/2-20  | 1.32 | 9/16      | 5   |
| 10006B-A06 | 3/8  | 3/8  | 5/8-18  | 1.35 | 5/8       | 5   |
| 10008B-A08 | 1/2  | 1/2  | 3/4-18  | 1.73 | 3/4       | 5   |



**SAE 37° (JIC) FEMALE SWIVEL**

| IBS No.    | Hose | Tube | Thread  | OAL  | H.C.O.F.* | Qty |
|------------|------|------|---------|------|-----------|-----|
| 10004B-604 | 1/4  | 1/4  | 7/16-20 | 1.38 | 3/4       | 5   |
| 10006B-606 | 3/8  | 3/8  | 9/16-18 | 1.62 | 7/8       | 5   |
| 10008B-608 | 1/2  | 1/2  | 3/4-16  | 1.90 | 1         | 5   |
| 10010B-610 | 5/8  | 5/8  | 7/8-14  | 2.54 | 1-1/8     | 5   |



**INVERTED MALE SWIVEL**

| IBS No.    | Hose | Tube | Thread  | OAL  | H.C.O.F.* | Qty |
|------------|------|------|---------|------|-----------|-----|
| 10004B-B03 | 1/4  | 3/16 | 3/8-24  | 1.73 | 1-1/8     | 5   |
| 10004B-B04 | 1/4  | 1/4  | 7/16-24 | 1.77 | 1-1/8     | 5   |
| 10004B-B05 | 1/4  | 5/16 | 1/2-20  | 1.80 | 1-3/16    | 5   |
| 10005B-B04 | 5/16 | 1/4  | 7/16-24 | 1.81 | 1-1/8     | 5   |
| 10005B-B05 | 5/16 | 5/16 | 1/2-20  | 1.83 | 1-1/8     | 5   |
| 10005B-B06 | 5/16 | 3/8  | 5/8-18  | 1.63 | 1-1/8     | 5   |
| 10006B-B05 | 3/8  | 5/16 | 1/2-20  | 1.93 | 1-3/16    | 5   |
| 10006B-B06 | 3/8  | 3/8  | 5/8-18  | 1.70 | 1         | 5   |
| 10008B-B08 | 1/2  | 1/2  | 3/4-18  | 2.24 | 1-1/4     | 5   |



**FEMALE SWIVEL**

| IBS No.    | Hose | Tube | Thread  | OAL  | H.C.O.F.* | Qty |
|------------|------|------|---------|------|-----------|-----|
| 10504B-404 | 1/4  | 1/4  | 7/16-24 | 1.47 | 11/16     | 5   |
| 10506B-404 | 3/8  | 1/4  | 7/16-24 | 1.61 | 11/16     | 5   |
| 10506B-406 | 3/8  | 3/8  | 5/8-18  | 1.75 | 13/16     | 5   |



**SAE 45° FLARE FEMALE SWIVEL**

| IBS No.    | Hose | Tube | Thread  | OAL  | H.C.O.F.* | Qty |
|------------|------|------|---------|------|-----------|-----|
| 10004B-404 | 1/4  | 1/4  | 7/16-20 | 1.3  | 3/4       | 5   |
| 10004B-405 | 1/4  | 5/16 | 1/2-10  | 1.42 | 13/16     | 5   |
| 10005B-405 | 5/16 | 5/16 | 1/2-20  | 1.58 | 7/8       | 5   |
| 10006B-405 | 3/8  | 5/16 | 1/2-20  | 1.60 | 7/8       | 5   |
| 10006B-406 | 3/8  | 3/8  | 5/8-18  | 1.62 | 7/8       | 5   |
| 10008B-408 | 1/2  | 1/2  | 3/4-16  | 1.90 | 1         | 5   |
| 10010B-410 | 5/8  | 5/8  | 7/8-14  | 2.54 | 1-1/8     | 5   |
| 10012B-412 | 3/4  | 3/4  | 3/4-14  | 2.66 | 1-1/4     | 5   |

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\* Note: To determine the correct length of hose, subtract the cut-off factor (H.C.O.F.) for each end fitting from the overall length of the assembly.



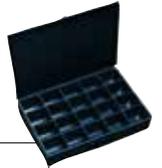
# IBS, INCORPORATED

## Assortments Z02

### Small Push-On Hose Fitting Assortment

IBS No. 111R • 20 Items - 87 Pieces

Packaged in a locking steel drawer for easy storage & organization



### Small Push-On Hose Fittings

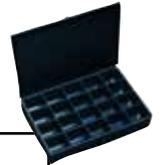
Assortment No. 111R

|   |   |  |  |   |
|---|---|--|--|---|
| 10004B-102<br>1/4 X 1/8 BRASS PUSH-ON<br>M. PIPE<br> | 10004B-104<br>1/4 X 1/4 BRASS PUSH-ON<br>M. PIPE<br> | 10005B-102<br>5/16 X 1/8 PUSH-ON M. PIPE<br>  | 10005B-104<br>5/16 X 1/4 PUSH-ON M. PIPE<br> | 10004B-Y04<br>1/4 PUSH-ON HOSE MENDER<br>    |
| 10006B-104<br>3/8 X 1/4 PUSH-ON M. PIPE<br>          | 10006B-106<br>3/8 X 3/8 PUSH-ON M. PIPE<br>          | 10004B-404<br>1/4 X 1/4 PUSH-ON SAE FE.<br>   | 10004B-405<br>1/4 X 5/16 PUSH-ON SAE FE.<br> | 10005B-Y05<br>5/16 PUSH-ON HOSE MENDER<br>   |
| 10005B-405<br>5/16 X 5/16 PUSH-ON SAE<br>            | 10006B-405<br>3/8 X 5/16 PUSH-ON SAE<br>             | 10006B-406<br>3/8 X 3/8 PUSH-ON SAE<br>       | 10004B-B04<br>1/4 X 1/4 PUSH-ON M. INV<br>   | 10006B-Y06<br>3/8 PUSH-ON HOSE MENDER<br>    |
| 10004B-B05<br>1/4 X 5/16 PUSH-ON<br>                | 10005B-B04<br>5/16 X 1/4 PUSH-ON M.<br>             | 10005B-B05<br>5/16 X 5/16 PUSH-ON M. INV<br> | 10006B-B05<br>3/8 X 5/16 PUSH-ON M.<br>     | 10006B-B06<br>3/8 X 3/8 PUSH-ON M. INV.<br> |

### Large Push-On Hose Fitting Assortment

IBS No. 112R • 13 Items - 51 Pieces

Packaged in a locking steel drawer for easy storage & organization



### Large Push-On Hose Fittings

Assortment No. 112R

|  |   |   |  |  |
|--|---|---|--|--|
| 10008B-106<br>1/2 X 3/8 PUSH-ON M. PIPE<br>         |   | 10008B-108<br>1/2 X 1/2 PUSH-ON M. PIPE<br>          |  | 10008B-Y08<br>1/2 PUSH-ON HOSE MENDER<br> |
| 10010B-108<br>5/8 X 1/2 PUSH-ON M. PIPE<br>         |   | 10012B-112<br>3/4 X 3/4 PUSH-ON M. PIPE<br>RIGID<br> |  | 10010B-Y10<br>5/8 PUSH-ON HOSE MENDER<br> |
| 10008B-408<br>1/2 X 1/2 PUSH-ON SAE FE.<br>SWIV<br> |   | 10010B-410<br>5/8 X 5/8 PUSH-ON SAE FE.<br>          |  | 10012B-Y12<br>3/4 PUSH-ON HOSE MENDER<br> |
| 10012B-412<br>PUSH-ON SAE FEMALE<br>SWIVEL<br>      | 10008B-B08<br>1/2 X 1/2 PUSH-ON M. INV<br> | 10006B-606<br>3/8 X 3/8 PUSH-ON JIC FE.<br>          |  |  |

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# IBS, INCORPORATED

## Low Pressure Push-On Fittings O10



### Long Barbed Hose Ends

#### Specifications

- **Hose End Series:** 105 "B" Series
- **Typical Application:** Low pressure shop or service lines.
- **Pressure:** Determined by maximum working pressure for hose size.
- **Material:** CA360 Brass.
- **Advantages:** Easy to assemble — Just push the fitting onto the hose and clamp. Low cost and a good selection of sizes.

#### Male Pipe



| IBS No.    | Hose | MPT | A    | Hex   | Pkg Qty |
|------------|------|-----|------|-------|---------|
| 10502B-102 | 1/8  | 1/8 | 1.00 | 7/16  | 5       |
| 10503B-102 | 3/16 | 1/8 | 1.16 | 7/16  | 5       |
| 10503B-104 | 3/16 | 1/4 | 1.43 | 9/16  | 5       |
| 10504B-102 | 1/4  | 1/8 | 1.54 | 7/16  | 5       |
| 10504B-104 | 1/4  | 1/4 | 1.61 | 9/16  | 5       |
| 10504B-106 | 1/4  | 3/8 | 1.72 | 11/16 | 5       |
| 10505B-102 | 5/16 | 1/8 | 1.60 | 7/16  | 5       |
| 10505B-104 | 5/16 | 1/4 | 1.77 | 9/16  | 5       |
| 10506B-102 | 3/8  | 1/8 | 1.53 | 7/16  | 5       |
| 10506B-104 | 3/8  | 1/4 | 1.70 | 9/16  | 5       |
| 10506B-106 | 3/8  | 3/8 | 1.72 | 11/16 | 5       |
| 10506B-108 | 3/8  | 1/2 | 1.95 | 7/8   | 1       |
| 10508B-104 | 1/2  | 1/4 | 1.71 | 9/16  | 1       |
| 10508B-106 | 1/2  | 3/8 | 1.72 | 11/16 | 1       |
| 10508B-108 | 1/2  | 1/2 | 1.94 | 7/8   | 1       |
| 10508B-112 | 1/2  | 3/4 | 1.95 | 1-1/8 | 1       |
| 10510B-106 | 5/8  | 3/8 | 1.72 | 3/4   | 1       |
| 10510B-108 | 5/8  | 1/2 | 1.95 | 7/8   | 1       |
| 10510B-112 | 5/8  | 3/4 | 1.91 | 1-1/8 | 1       |
| 10512B-108 | 3/4  | 1/2 | 1.86 | 7/8   | 1       |
| 10512B-112 | 3/4  | 3/4 | 1.92 | 1-1/8 | 1       |

#### Assembly Instructions

1. Slide clamp over hose.
2. Insert barbed end of fitting into hose.
3. Locate clamp in middle of insert and tighten.  
CAUTION: Hose can be damaged if over-tightened. Refer to important safety information found on the previous page of this catalog.

#### Female Pipe



| IBS No.    | Hose | FPT | A    | Hex   | Pkg Qty |
|------------|------|-----|------|-------|---------|
| 10502B-202 | 1/8  | 1/8 | .97  | 9/16  | 5       |
| 10503B-202 | 3/16 | 1/8 | 1.19 | 9/16  | 5       |
| 10504B-202 | 1/4  | 1/8 | 1.47 | 9/16  | 5       |
| 10504B-204 | 1/4  | 1/4 | 1.58 | 11/16 | 5       |
| 10505B-202 | 5/16 | 1/8 | 1.47 | 9/16  | 5       |
| 10505B-204 | 5/16 | 1/4 | 1.58 | 11/16 | 5       |
| 10506B-202 | 3/8  | 1/8 | 1.47 | 9/16  | 5       |
| 10506B-204 | 3/8  | 1/4 | 1.58 | 11/16 | 5       |
| 10506B-206 | 3/8  | 3/8 | 1.64 | 13/16 | 5       |
| 10508B-204 | 1/2  | 1/4 | 1.58 | 11/16 | 1       |
| 10508B-206 | 1/2  | 3/8 | 1.64 | 13/16 | 1       |
| 10508B-208 | 1/2  | 1/2 | 1.86 | 1     | 1       |

#### Union



| IBS No.    | Hose       | Pkg Qty |
|------------|------------|---------|
| 10403B-103 | 3/16       | 5       |
| 10404B-104 | 1/4        | 5       |
| 10405B-105 | 5/16       | 5       |
| 10406B-106 | 3/8        | 5       |
| 10406B-104 | 3/8 X 1/4  | 5       |
| 10406B-105 | 3/8 X 5/16 | 5       |
| 10408B-108 | 1/2        | 1       |
| 10410B-110 | 5/8        | 1       |
| 10412B-112 | 3/4        | 1       |

FITTINGS



# IBS, INCORPORATED

## Assortments Z02

### Push-On Hose Fitting Assortments

IBS No. 218R • 19 Items - 78 Pieces

Packaged in a locking steel drawer for easy storage & organization



#### Long-Barb Push-On Fittings 1/8", 3/16", 1/4", 5/16"

Assortment No. 218R

|   |  |  |  |  |
|---|--|--|--|--|
| 10403B-103<br>3/16 LONG BARB UNION<br>          | 10404B-104<br>1/4 LONG BARB UNION<br>            | 10405B-105<br>5/16 LONG BARB UNION<br>           | 10406B-104<br>3/8 X 1/4 LONG BARB UNION<br>      | 10406B-105<br>3/8 X 5/16 LONG BARB UNION<br>     |
| 10502B-102<br>1/8 X 1/8 M. LONG BARB H. END<br> | 10503B-102<br>3/16 X 1/8 M. LONG BARB H. END<br> | 10503B-104<br>3/16 X 1/4 M. LONG BARB H. END<br> | 10504B-102<br>1/4 X 1/8 M. LONG BARB H. END<br>  | 10504B-104<br>1/4 X 1/4 M LONG BARB HOSE END<br> |
| 10504B-106<br>1/4 X 3/8 M. LONG BARB H. END<br> | 10505B-102<br>5/16 X 1/8 M. LONG BARB H. END<br> | 10505B-104<br>5/16 X 1/4 M. LONG BARB H. END<br> | 10502B-202<br>1/8 X 1/8 F. LONG BARB H. END<br>  | 10503B-202<br>3/16 X 1/8 F. LONG BARB H. END<br> |
| 10504B-202<br>1/4 X 1/8 F. LONG BARB H. END<br> | 10504B-204<br>1/4 X 1/4 F. LONG BARB H. END<br>  | 10505B-202<br>5/16 X 1/8 F. LONG BARB H. END<br> | 10505B-204<br>5/16 X 1/4 F. LONG BARB H. END<br> |  |

### Push-On Hose Fitting Assortments

IBS No. 219R • 16 Items - 56 Pieces

Packaged in a locking steel drawer for easy storage & organization



#### Long-Barb Push-On Fittings 3/8", 1/2, 3/4"

Assortment No. 219R

|   |   |   |   |
|---|---|---|---|
| 10406B-106<br>3/8 LONG BARB UNION<br>           | 10408B-108<br>1/2 LONG BARB UNION<br>           | 10410B-110<br>5/8 LONG BARB UNION<br>           | 10412B-112<br>3/4 LONG BARB UNION<br>           |
| 10506B-104<br>3/8 X 1/4 M. LONG BARB H. END<br> | 10506B-106<br>3/8 X 3/8 M. LONG BARB H. END<br> | 10508B-106<br>1/2 X 3/8 M. LONG BARB H. END<br> | 10508B-108<br>1/2 X 1/2 M. LONG BARB H. END<br> |
| 10510B-108<br>5/8 X 1/2 M. LONG BARB H. END<br> | 10512B-108<br>3/4 X 1/2 M LONG BARB HOSE<br>    | 10512B-112<br>3/4 X 3/4 M. LONG BARB H. END<br> | 10506B-204<br>3/8 X 1/4 F. LONG BARB H. END<br> |
| 10506B-206<br>3/8 X 3/8 F. LONG BARB H. END<br> | 10508B-204<br>1/2 X 1/4 F. LONG BARB H. END<br> | 10508B-206<br>1/2 X 3/8 F. LONG BARB H. END<br> | 10508B-208<br>1/2 X 1/2 F. LONG BARB H. END<br> |

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## Poly-Push Fittings O12

### Poly-Matic® Nickel Plated Brass Fittings Push-to-Connect — The Grip That Won't Quit!



**Poly-Matic Fittings** are known to have the best retention capability of any Push-to-Connect Fitting on the market. The nickel plated brass bodies, high impact acetal release collars and brass spring locking teeth provide assurance for long life as well as an attractive appearance that has set a new industry standard.

#### FEATURES & BENEFITS

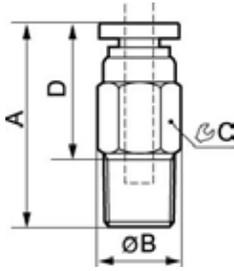
- Designed for use with **Polyethylene, Nylon or 95A Durometer Polyurethane** tubing.
- **Quick & easy connection** — wide release collar allows fast and trouble-free tubing removal.
- **Fully reusable** — can be used many times over (no replacement ferrules or inserts are needed).
- Automatically **locks and seals** to maximum working pressure.
- **Does not limit tubing flow** because no part of the fitting goes inside the tubing.
- Male pipe threads supplied with factory applied sealant.
- **Positive grip action locking teeth** are not affected by vibration (with or without pressure).
- Completely **silicone free** construction.
- **Compact design** allows fittings to be closely mounted.
- **Installation is easy — no tools are required.** To connect, simply push the tubing into the fitting until it bottoms. To disconnect, all you have to do is push the collar down, and pull the tubing out.



# IBS, INCORPORATED

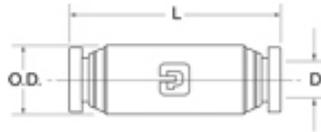
## Poly-Push Fittings O12

### Poly-Matic Nickel Plated Brass Fittings — Fractional Male Connectors



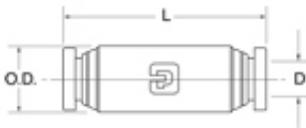
| IBS No. | Tube Size | MNPT Thread | A     | B    | C     | D    | E    | Qty |
|---------|-----------|-------------|-------|------|-------|------|------|-----|
| 56822   | 1/8       | 1/8         | .827  | .315 | 7/16  | .63  | .394 | 5   |
| 56824   | 1/8       | 1/4         | .827  | .315 | 7/16  | .63  | .394 | 5   |
| 56832   | 5/32      | 1/8         | .846  | .315 | 7/16  | .63  | .394 | 5   |
| 56834   | 5/32      | 1/4         | .846  | .433 | 9/16  | .63  | .394 | 5   |
| 56842   | 1/4       | 1/8         | .945  | .315 | 1/2   | .669 | .504 | 5   |
| 56844   | 1/4       | 1/4         | .925  | .433 | 9/16  | .669 | .504 | 5   |
| 56846   | 1/4       | 3/8         | .965  | .472 | 11/16 | .669 | .504 | 5   |
| 56852   | 5/16      | 1/8         | 1.063 | .315 | 9/16  | .709 | .543 | 5   |
| 56854   | 5/16      | 1/4         | 1.043 | .433 | 9/16  | .709 | .543 | 5   |
| 56856   | 5/16      | 3/8         | .984  | .472 | 11/16 | .709 | .543 | 5   |
| 56862   | 3/8       | 1/8         | 1.146 | .315 | 11/16 | .76  | .661 | 5   |
| 56864   | 3/8       | 1/4         | 1.224 | .433 | 11/16 | .76  | .661 | 5   |
| 56866   | 3/8       | 3/8         | 1.087 | .472 | 11/16 | .76  | .661 | 5   |
| 56868   | 3/8       | 1/2         | 1.126 | .591 | 7/8   | .76  | .661 | 5   |
| 56884   | 1/2       | 1/4         | 1.299 | .433 | 7/8   | .787 | .807 | 5   |
| 56886   | 1/2       | 3/8         | 1.22  | .472 | 7/8   | .787 | .807 | 5   |
| 56888   | 1/2       | 1/2         | 1.161 | .591 | 7/8   | .787 | .807 | 5   |

### Unions



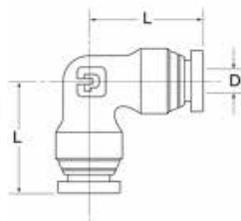
| IBS No. | Tube Size (D) | OD   | L    | D Flow Dia. | Qty |
|---------|---------------|------|------|-------------|-----|
| 1162X2  | 1/8           | .250 | 1.15 | .094        | 5   |
| 1162X3  | 5/32          | .375 | .141 | .125        | 5   |
| 1162X4  | 1/4           | .500 | .143 | .188        | 5   |
| 1162X5  | 5/16          | .562 | .165 | .250        | 5   |
| 1162X6  | 3/8           | .625 | .166 | .312        | 5   |
| 1162X8  | 1/2           | .750 | .182 | .375        | 5   |

### Union Reducers



| IBS No.  | Tube OD LG | Tube OD SM | L    | D Flow Dia. | Qty |
|----------|------------|------------|------|-------------|-----|
| 1162X4X2 | 1/4        | 1/8        | 1.43 | .094        | 5   |
| 1162X6X4 | 3/8        | 1/4        | 1.66 | .188        | 5   |
| 1162X8X6 | 1/2        | 3/8        | 1.82 | .312        | 5   |

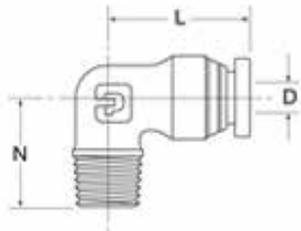
### Union Elbows



| IBS No. | Tube Size | L    | D Flow Dia. | Qty |
|---------|-----------|------|-------------|-----|
| 1165X3  | 5/32      | .77  | .125        | 5   |
| 1165X4  | 1/4       | .85  | .188        | 5   |
| 1165X5  | 5/16      | .97  | .250        | 5   |
| 1165X6  | 3/8       | 1.01 | .312        | 5   |
| 1165X8  | 1/2       | 1.15 | .375        | 5   |

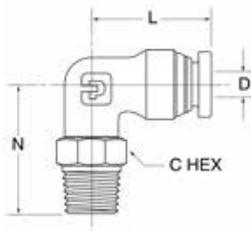
FITTINGS

### Poly-Matic Nickel Plated Brass Fittings — Fractional Male 90° Elbows



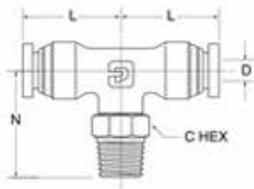
| IBS No.  | Tube Size | NPTF | L    | N    | Qty |
|----------|-----------|------|------|------|-----|
| 1169X2X2 | 1/8       | 1/8  | .74  | .67  | 5   |
| 1169X3X2 | 5/32      | 1/8  | .77  | .67  | 5   |
| 1169X3X4 | 5/32      | 1/4  | .77  | .67  | 5   |
| 1169X4X2 | 1/4       | 1/8  | .85  | .67  | 5   |
| 1169X4X4 | 1/4       | 1/4  | .85  | .87  | 5   |
| 1169X6X4 | 3/8       | 1/4  | 1.01 | .94  | 5   |
| 1169X6X6 | 3/8       | 3/8  | 1.01 | 1.01 | 5   |
| 1169X8X6 | 1/2       | 3/8  | 1.15 | 1.00 | 5   |

### 360° Male Swivel Elbows



| IBS No.   | Tube Size | NPTF | C (Hex) | L    | N    | D Flow Dia. | Qty |
|-----------|-----------|------|---------|------|------|-------------|-----|
| 1169X2X2S | 1/8       | 1/8  | 7/16    | .74  | .92  | .094        | 5   |
| 1169X3X2S | 5/32      | 1/8  | 7/16    | .77  | .92  | .125        | 5   |
| 1169X3X4S | 5/32      | 1/4  | 9/16    | .77  | 1.10 | .125        | 5   |
| 1169X4X2S | 1/4       | 1/8  | 7/16    | .85  | .92  | .188        | 5   |
| 1169X4X4S | 1/4       | 1/4  | 9/16    | .85  | 1.10 | .188        | 5   |
| 1169X4X6S | 1/4       | 3/8  | 11/16   | .85  | 1.19 | .188        | 5   |
| 1169X5X2S | 5/16      | 1/8  | 9/16    | .97  | 1.02 | .250        | 5   |
| 1169X5X4S | 5/16      | 1/4  | 9/16    | .97  | 1.24 | .250        | 5   |
| 1169X6X2S | 3/8       | 1/8  | 9/16    | 1.01 | 1.02 | .312        | 5   |
| 1169X6X4S | 3/8       | 1/4  | 9/16    | 1.01 | 1.24 | .312        | 5   |
| 1169X6X6S | 3/8       | 3/8  | 11/16   | 1.01 | 1.24 | .312        | 5   |
| 1169X8X6S | 1/2       | 3/8  | 11/16   | 1.15 | 1.31 | .375        | 5   |
| 1169X8X8S | 1/2       | 1/2  | 7/8     | 1.15 | 1.52 | .375        | 5   |

### Male Swivel Branch Tees



| IBS No.  | Tube Size | NPTF | C (Hex) | L    | N    | D Flow Dia. | Qty |
|----------|-----------|------|---------|------|------|-------------|-----|
| 1172X2X2 | 1/8       | 1/8  | 7/16    | .74  | .92  | .094        | 5   |
| 1172X3X2 | 5/32      | 1/8  | 7/16    | .77  | .92  | .125        | 5   |
| 1172X4X2 | 1/4       | 1/8  | 7/16    | .85  | .92  | .188        | 5   |
| 1172X4X4 | 1/4       | 1/4  | 9/16    | .85  | 1.10 | .188        | 5   |
| 1172X6X4 | 3/8       | 1/4  | 9/16    | 1.01 | 1.24 | .250        | 5   |
| 1172X6X6 | 3/8       | 3/8  | 11/16   | 1.01 | 1.24 | .250        | 5   |
| 1172X8X6 | 1/2       | 3/8  | 11/16   | 1.15 | 1.31 | .375        | 5   |
| 1172X8X8 | 1/2       | 1/2  | 7/8     | 1.15 | 1.52 | .375        | 5   |

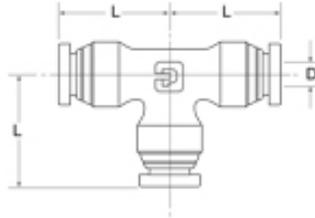
FITTINGS



# IBS, INCORPORATED

## Poly-Push Fittings O12

### Push-Lock Nickel Plated Brass Fittings — Fractional Union Tees



| IBS No. | Tube Size | L    | D Flow Dia. | Qty |
|---------|-----------|------|-------------|-----|
| 1164X2  | 1/8       | .74  | .094        | 5   |
| 1164X3  | 5/32      | .77  | .125        | 5   |
| 1164X4  | 1/4       | .85  | .188        | 5   |
| 1164X5  | 5/16      | .97  | .250        | 5   |
| 1164X6  | 3/8       | 1.01 | .250        | 5   |
| 1164X8  | 1/2       | 1.15 | .375        | 5   |

FITTINGS

### Push-Lock Nickel Plated Brass Fittings Assortment (Z02)

IBS No. 197R • 18 Items 42 Pieces

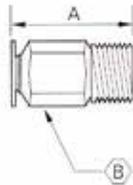
Packaged in a locking steel drawer for easy storage & organization.

**Poly-Matic Nickel Plated Brass Fittings**

Assortment No. 197R

|  |  |  |  |  |
|--|--|--|--|--|
| <p>56822<br/>1/8 X 1/8 COMPOSITE M<br/>CONN</p>      | <p>56842<br/>1/4 X 1/8 COMPOSITE M<br/>CONN</p>        | <p>56844<br/>1/4 X 1/4 COMPOSITE M<br/>CONN</p>        | <p>56862<br/>3/8 X 1/8 COMPOSITE M<br/>CONN</p>        | <p>56864<br/>3/8 X 1/4 COMPOSITE M<br/>CONN</p>        |
| <p>56866<br/>3/8 X 3/8 COMPOSITE M<br/>CONN</p>      | <p>56886<br/>1/2 X 3/8 COMPOSITE M<br/>CONN</p>        | <p>1169X2X2S<br/>1/8X1/8 90DGR M SWIV ELB<br/>POLY</p> | <p>1169X4X2S<br/>1/4X1/8 90DGR M SWIV ELB<br/>POLY</p> | <p>1169X4X4S<br/>1/4X1/4 90DGR M SWIV ELB<br/>POLY</p> |
| <p>1169X6X2S<br/>3/8 X 1/8 90DGR M SWIV<br/>POLY</p> | <p>1169X6X4S<br/>3/8X1/4 90DGR M SWIV ELB<br/>POLY</p> | <p>1169X6X6S<br/>3/8X3/8 90DGR M SWIV ELB<br/>POLY</p> | <p>1169X8X6S<br/>1/2X3/8 90DGR M SWIV ELB<br/>POLY</p> |  |
| <p>1162X2<br/>1/8 UNION POLY PUSH NP<br/>BRASS</p>   | <p>1162X4<br/>1/4 UNION POLY PUSH NP<br/>BRASS</p>     | <p>1162X6<br/>3/8 UNION POLY PUSH NP<br/>BRASS</p>     | <p>1162X8<br/>1/2 UNION POLY PUSH NP<br/>BRASS</p>     |  |

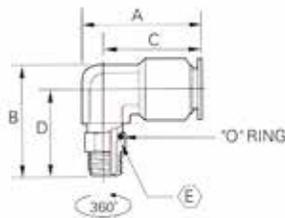
### Push-Lock Nickel Plated Brass Fittings — Metric Male Connectors



| IBS No. | Tube OD | BSPT | A in | A mm | B in  | Qty |
|---------|---------|------|------|------|-------|-----|
| 201213  | M6      | R1/4 | 0.90 | 22.7 | 9/16  | 10  |
| 201217  | M8      | R1/8 | 1.35 | 34.4 | 9/16  | 10  |
| 201219  | M8      | R3/8 | 1.10 | 28.1 | 11/16 | 10  |
| 201224  | M10     | R3/8 | 1.43 | 36.4 | 11/16 | 10  |
| 201225  | M10     | R1/2 | 1.09 | 27.7 | 7/8   | 10  |

While Supplies Last

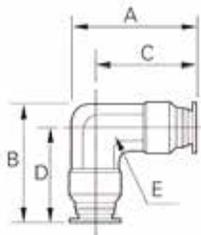
### 360° Swivel Elbows



| IBS No. | Tube OD | BSPT | A in | B in | C in | D in | E in  | Qty |
|---------|---------|------|------|------|------|------|-------|-----|
| 202203  | M4      | R1/4 | 1.16 | 1.16 | 0.94 | 0.94 | 9/16  | 10  |
| 202224  | M10     | R3/8 | 1.67 | 1.67 | 1.31 | 1.26 | 11/16 | 5   |

While Supplies Last

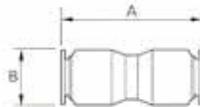
### Union Elbows



| IBS No. | Tube OD mm | A in | B in | C in | D in | E in  | Qty |
|---------|------------|------|------|------|------|-------|-----|
| 204250  | M4         | 1.14 | 1.14 | 0.92 | 0.92 | 23/64 | 10  |
| 204263  | M6         | 1.25 | 1.25 | 0.98 | 0.98 | 23/64 | 10  |
| 204268  | M8         | 1.29 | 1.29 | 1.00 | 1.00 | 1/2   | 5   |
| 204272  | M10        | 1.65 | 1.65 | 1.31 | 1.31 | 1/2   | 5   |

While Supplies Last

### Straight Unions



| IBS No. | Tube OD mm | A in | A mm | B in | B mm | Qty |
|---------|------------|------|------|------|------|-----|
| 209250  | M4         | 1.70 | 43.1 | 3/8  | 9.5  | 10  |
| 209268  | M8         | 1.76 | 44.7 | 9/16 | 14.3 | 5   |

While Supplies Last

FITTINGS



# IBS, INCORPORATED

## Poly-Push Fittings O12

### Push-Lock Nickel Plated Brass Fittings — Metric

#### Union Tees

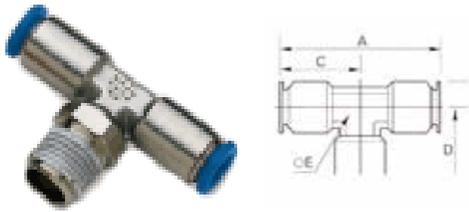


While Supplies Last

| IBS No. | Tube OD mm | A in | B in | C in | D in | E in | Qty |
|---------|------------|------|------|------|------|------|-----|
| 205268  | M8         | 2.00 | 1.34 | 1.00 | 1.00 | 1/2  | 5   |

### Poly-Matic Nickel Plated Brass Fittings — Metric

#### Union Tees



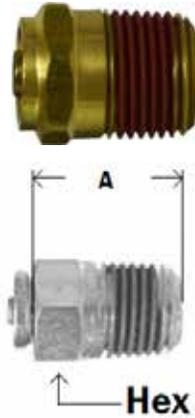
While Supplies Last

| IBS No. | Tube OD mm | BSPT | A in | B in | C in | D in | E in  | Qty |
|---------|------------|------|------|------|------|------|-------|-----|
| 207212  | M6         | R1/8 | 1.96 | 1.18 | 0.98 | 0.94 | 7/16  | 10  |
| 207213  | M6         | R1/4 | 1.96 | 1.23 | 0.98 | 0.99 | 9/16  | 5   |
| 202217  | M8         | R1/8 | 2.00 | 1.38 | 1.00 | 1.04 | 7/16  | 5   |
| 207218  | M8         | R1/4 | 2.00 | 1.48 | 1.00 | 1.14 | 9/16  | 5   |
| 207223  | M10        | R1/4 | 2.61 | 1.48 | 1.31 | 1.14 | 9/16  | 5   |
| 207224  | M10        | R3/8 | 2.61 | 1.60 | 1.31 | 1.26 | 11/16 | 5   |
| 207229  | M12        | R3/8 | 3.08 | 1.69 | 1.54 | 1.27 | 11/16 | 5   |

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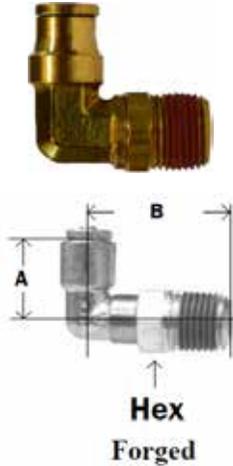
## Poly-Push Fittings O12

### Push-Lock Brass Fittings — D.O.T. Male Connectors



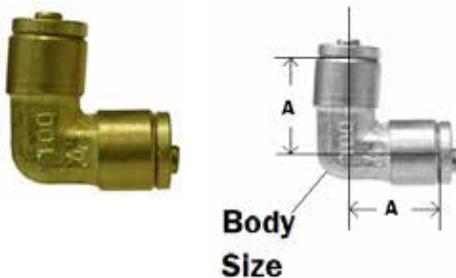
| IBS No. | Tube OD | Pipe Thread | A    | Hex  | Qty |
|---------|---------|-------------|------|------|-----|
| 86832   | 5/32    | 1/8         | 0.79 | 0.43 | 5   |
| 86842   | 1/4     | 1/8         | 0.96 | 0.44 | 5   |
| 86844   | 1/4     | 1/4         | 0.88 | 0.56 | 5   |
| 86846   | 1/4     | 3/8         | 1.20 | 0.68 | 5   |
| 86862   | 3/8     | 1/8         | 1.16 | 0.68 | 5   |
| 86864   | 3/8     | 1/4         | 1.19 | 0.68 | 5   |
| 86866   | 3/8     | 3/8         | 1.00 | 0.68 | 5   |
| 86868   | 3/8     | 1/2         | 1.10 | 0.87 | 5   |
| 86884   | 1/2     | 1/4         | 1.68 | 0.87 | 5   |
| 86886   | 1/2     | 3/8         | 1.64 | 0.87 | 5   |
| 86888   | 1/2     | 1/2         | 1.72 | 0.87 | 5   |
| 86890   | 5/8     | 3/8         | 1.87 | 1.06 | 1   |
| 86892   | 5/8     | 1/2         | 2.12 | 1.06 | 1   |

### 360° Male Swivel Elbows



| IBS No. | Tube OD | Pipe Thread | A    | B    | Hex  | Qty |
|---------|---------|-------------|------|------|------|-----|
| 87932   | 5/32    | 1/8         | 0.79 | 0.88 | 0.44 | 5   |
| 87942   | 1/4     | 1/8         | 0.98 | 0.91 | 0.43 | 5   |
| 87944   | 1/4     | 1/4         | 1.02 | 0.88 | 0.56 | 5   |
| 87946   | 1/4     | 3/8         | 1.02 | 1.13 | 0.68 | 5   |
| 87962   | 3/8     | 1/8         | 1.21 | 1.05 | 0.43 | 5   |
| 87964   | 3/8     | 1/4         | 1.15 | 1.05 | 0.56 | 5   |
| 87966   | 3/8     | 3/8         | 1.10 | 1.23 | 0.59 | 5   |
| 87968   | 3/8     | 1/2         | 1.07 | 1.52 | 0.87 | 5   |
| 87984   | 1/2     | 1/4         | 1.27 | 1.27 | 0.87 | 5   |
| 87986   | 1/2     | 3/8         | 1.27 | 1.42 | 0.87 | 5   |
| 87988   | 1/2     | 1/2         | 1.27 | 1.62 | 0.87 | 5   |
| 87990   | 5/8     | 3/8         | 1.54 | 1.41 | 0.68 | 1   |
| 87992   | 5/8     | 1/2         | 1.54 | 1.71 | 0.87 | 1   |

### 90° Union Elbows



| IBS No. | Tube OD | A    | Qty |
|---------|---------|------|-----|
| 86544   | 1/4     | 1.05 | 5   |
| 86566   | 3/8     | 1.10 | 5   |
| 86588   | 1/2     | 1.26 | 5   |

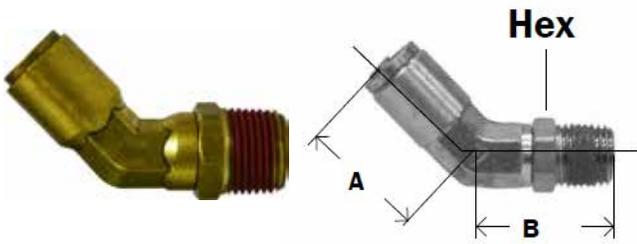
FITTINGS



# IBS, INCORPORATED

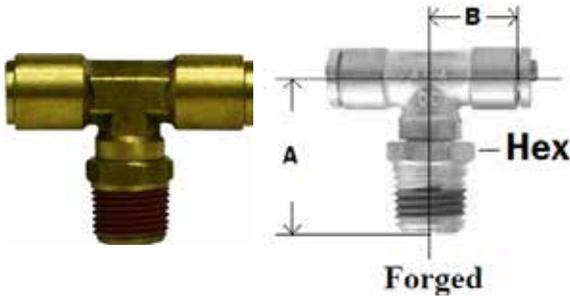
## Poly-Push Fittings O12

### Push-Lock Brass Fittings — D.O.T. Male 45° Swivel Elbows



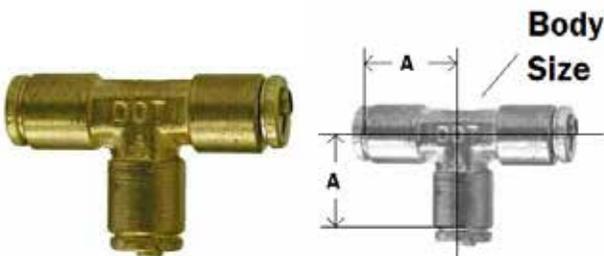
| IBS No. | Tube OD | NPTF Male | A    | B    | Hex  | Qty |
|---------|---------|-----------|------|------|------|-----|
| 88042   | 1/4     | 1/8       | 0.99 | 0.98 | 0.43 | 5   |
| 88044   | 1/4     | 1/4       | 0.77 | 0.94 | 0.56 | 5   |
| 88064   | 3/8     | 1/4       | 1.07 | 1.13 | 0.56 | 5   |
| 88066   | 3/8     | 3/8       | 1.08 | 1.23 | 0.68 | 5   |
| 88084   | 1/2     | 1/4       | 1.22 | 1.12 | 0.56 | 5   |
| 88086   | 1/2     | 3/8       | 1.20 | 1.31 | 0.68 | 5   |
| 88088   | 1/2     | 1/2       | 1.20 | 1.61 | 0.88 | 5   |
| 88108   | 5/8     | 1/2       | 1.39 | 1.68 | 0.87 | 5   |

### Male Swivel Branch Tees



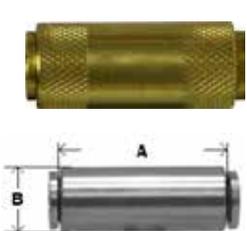
| IBS No. | Tube Size | NPT | A    | B    | Hex  | Qty |
|---------|-----------|-----|------|------|------|-----|
| 87242   | 1/4       | 1/8 | 0.91 | 0.83 | 0.43 | 5   |
| 87244   | 1/4       | 1/4 | 1.04 | 1.01 | 0.56 | 5   |
| 87264   | 3/8       | 1/4 | 1.10 | 1.10 | 0.56 | 5   |
| 87266   | 3/8       | 3/8 | 1.25 | 1.06 | 0.68 | 5   |
| 87284   | 1/2       | 1/4 | 1.34 | 1.28 | 0.87 | 5   |
| 87286   | 1/2       | 3/8 | 1.36 | 1.31 | 0.68 | 5   |
| 87288   | 1/2       | 1/2 | 1.26 | 1.61 | 0.87 | 5   |

### Union Tees



| IBS No. | Tube OD | A    | Body Size | Qty |
|---------|---------|------|-----------|-----|
| 86444   | 1/4     | 1.01 | 0.37      | 5   |
| 86466   | 3/8     | 1.07 | 0.50      | 5   |
| 86488   | 1/2     | 1.26 | 0.62      | 5   |
| 86490   | 5/8     | 1.32 | 0.69      | 1   |

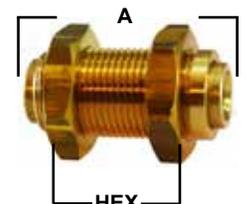
### Unions



| IBS No. | Tube OD | A    | B    | Qty |
|---------|---------|------|------|-----|
| 86233   | 5/32    | 1.18 | 0.39 | 5   |
| 86244   | 1/4     | 1.22 | 0.47 | 5   |
| 86266   | 3/8     | 1.77 | 0.67 | 5   |
| 86288   | 1/2     | 2.01 | 0.81 | 5   |
| 86290   | 5/8     | 2.42 | 1.00 | 1   |

### Bulkhead Unions

| IBS No. | Tube OD | A    | Hex  | Qty |
|---------|---------|------|------|-----|
| 88244   | 1/4     | 1.90 | 0.68 | 5   |
| 88266   | 3/8     | 1.55 | 1.06 | 5   |
| 88288   | 1/2     | 1.82 | 1.18 | 5   |
| 88290   | 5/8     | 2.42 | 1.25 | 1   |



FITTINGS



### Push-Lock DOT Air Brake Fittings

IBS No. 180R • 12 Items 36 Pieces

Packaged in a locking steel drawer for easy storage & organization.

|   |  |   |  |
|---|--|---|--|
| <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/>         INDUSTRIALBOLT.COM © © © 800-678-1906</small> |  | <b>Push Lock DOT Air Brake Fittings</b><br><b>1/4" &amp; 3/8"</b> |  |
| Assortment No. 180R   |  |   |  |
| 86842<br>1/4 X 1/8 POLY-MATIC DOT MALE<br>  | 87942<br>1/4 X 1/8 POLY-MATIC DOT M<br>    | 86244<br>1/4 POLY-MATIC DOT UNION<br>                             |  |
| 86844<br>1/4 X 1/4 POLY-MATIC DOT MALE<br>  | 87944<br>1/4 X 1/4 POLY-MATIC M SWIVEL<br> | 86266<br>3/8 POLY-MATIC DOT UNION<br>                             |  |
| 86864<br>3/8 X 1/4 POLY-MATIC DOT MALE<br>  | 87964<br>3/8 X 1/4 POLY-MATIC DOT M<br>    | 88244<br>1/4 POLY-MATIC DOT BULK HEAD<br>                         |  |
| 86866<br>3/8 X 3/8 POLY-MATIC DOT MALE<br>  | 87966<br>3/8 X 3/8 POLY-MATIC DOT M<br>    | 88266<br>3/8 POLY-MATIC DOT BULK HEAD<br>                         |  |

### Push-Lock DOT Air Brake Fittings

IBS No. 181R • 18 Items 45 Pieces

Packaged in a locking steel drawer for easy storage & organization.

|   |   |   |  |
|---|---|---|--|
| <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/>         INDUSTRIALBOLT.COM © © © 800-678-1906</small> |   | <b>Push Lock DOT Air Brake Fittings</b><br><b>1/4", 3/8" and 1/2"</b> |  |
| Assortment No. 181R   |   |   |  |
| 87944<br>1/4 X 1/4 POLY-MATIC M SWIVEL<br>ELBOW<br>   | 87966<br>3/8 X 3/8 POLY-MATIC DOT M<br>SWIVEL ELBOW<br> | 87988<br>1/2 X 1/2 POLY-MATIC DOT M<br>SWIVEL ELBOW<br>               |  |
| 87942<br>1/4 X 1/8 POLY-MATIC DOT M<br>SWIVEL ELBOW<br>   | 87964<br>3/8 X 1/4 POLY-MATIC DOT M<br>SWIVEL ELBOW<br> | 87986<br>1/2 X 3/8 POLY-MATIC DOT M<br>SWIVEL ELBOW<br>               |  |
| 86844<br>1/4 X 1/4 POLY-MATIC DOT MALE<br>CONNECTOR<br>   | 86866<br>3/8 X 3/8 POLY-MATIC DOT MALE<br>CONNECTOR<br> | 86888<br>1/2 X 1/2 POLY-MATIC DOT MALE<br>CONNECTOR<br>               |  |
| 86842<br>1/4 X 1/8 POLY-MATIC DOT MALE<br>CONNECTOR<br>   | 86864<br>3/8 X 1/4 POLY-MATIC DOT MALE<br>CONNECTOR<br> | 86886<br>1/2 X 3/8 POLY-MATIC DOT MALE<br>CONNECTOR<br>               |  |
| 88244<br>1/4 POLY-MATIC DOT BULK HEAD<br>UNION<br>  | 88266<br>3/8 POLY-MATIC DOT BULK HEAD<br>UNION<br>      | 88288<br>1/2 POLY-MATIC DOT BULK HEAD<br>UNION<br>                    |  |
| 86244<br>1/4 POLY-MATIC DOT UNION<br>   | 86266<br>3/8 POLY-MATIC DOT UNION<br>                   | 86288<br>1/2 POLY-MATIC DOT UNION<br>                                 |  |

FITTINGS



# IBS, INCORPORATED

## Assortments Z02

### Poly-Matic® DOT Air Brake Fittings

IBS No. 334R • 17 Items 33 Pieces

Packaged in a locking steel drawer for easy storage & organization.



#### Push Lock DOT Fittings

5/32", 1/4" & 3/8"

Assortment No. 334R

|   |   |   |   |  |
|---|---|---|---|--|
| 86233<br>5/32 POLY-MATIC DOT UNION<br>     | 86244<br>1/4 POLY-MATIC DOT UNION<br>      | 86266<br>3/8 POLY-MATIC DOT UNION<br>      | 86444<br>1/4 POLY-MATIC DOT UNION TEE<br>   | 86466<br>3/8 POLY-MATIC DOT UNION TEE<br> |
| 86842<br>1/4 X 1/8 POLY-MATIC DOT MALE<br> | 86844<br>1/4 X 1/4 POLY-MATIC DOT MALE<br> | 86864<br>3/8 X 1/4 POLY-MATIC DOT MALE<br> | 86866<br>3/8 X 3/8 POLY-MATIC DOT MALE<br> |  |
| 87242<br>1/4X1/8 POLY-MATIC DOT M SWIV<br> | 87244<br>1/4X1/4 POLY-MATIC DOT M SWIV<br> | 87264<br>3/8X1/4 POLY-MATIC DOT M SWIV<br> | 87266<br>3/8X3/8 POLY-MATIC DOT M SWIV<br> |  |
| 87942<br>1/4 X 1/8 POLY-MATIC DOT M<br>    | 87944<br>1/4 X 1/4 POLY-MATIC M SWIVEL<br> | 87964<br>3/8 X 1/4 POLY-MATIC DOT M<br>    | 87966<br>3/8 X 3/8 POLY-MATIC DOT M<br>    |  |



### Poly-Matic® DOT Air Brake Fittings

IBS No. 335R • 16 Items 21 Pieces

Packaged in a locking steel drawer for easy storage & organization.



#### Push Lock DOT Fittings

3/8" & 1/2"

Assortment No. 335R

|   |   |   |   |  |
|---|---|---|---|--|
| 86266<br>3/8 POLY-MATIC DOT UNION<br>      | 86288<br>1/2 POLY-MATIC DOT UNIONS<br>     |   | 86466<br>3/8 POLY-MATIC DOT UNION TEE<br>   | 86488<br>1/2 POLY-MATIC DOT UNION TEE<br> |
| 86866<br>3/8 X 3/8 POLY-MATIC DOT MALE<br> | 86884<br>1/2 X 1/4 POLY-MATIC DOT MALE<br> | 86886<br>1/2 X 3/8 POLY-MATIC DOT MALE<br> | 86888<br>1/2 X 1/2 POLY-MATIC DOT MALE<br> |  |
| 87266<br>3/8X3/8 POLY-MATIC DOT M SWIV<br> | 87284<br>1/2X1/4 POLY-MATIC DOT M SWIV<br> | 87286<br>1/2X3/8 POLY-MATIC DOT M SWIV<br> | 87288<br>1/2X1/2 POLY-MATIC DOT M SWIV<br> |  |
| 87966<br>3/8 X 3/8 POLY-MATIC DOT M<br>    | 87984<br>1/2 X 1/4 POLY-MATIC DOT M<br>    | 87986<br>1/2 X 3/8 POLY-MATIC DOT M<br>    | 87988<br>1/2 X 1/2 POLY-MATIC DOT M<br>    |  |



FITTINGS

## Composite DOT Push Connect Fittings O12

### Composite Body DOT Air Brake Fittings One Touch Connection for Easy Installation

- Composite DOT fittings **do not rust or corrode**.
- **One touch connection** reduces installation time and cost.
- **Rugged ultraviolet and vibration resistant** composite body for secure connections and longer lasting life.
- **Lightweight but durable construction** improves fuel efficiency and payload potential.
- **Reusable — connect and disconnect** fittings several times.
- **Designed only for use in applications where air is utilized as an operating fluid.**



#### 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)  | 1200 psi   | 1200 psi | 1400 psi | 950 psi | 900 psi | 800 psi |
|   | at 200°F (93°C) | 450psi (3.1MPa)  |          |          |         |         |         |
| Recommended Fluid & Ambient Temperature |                 | -40°F to 140°F (-40°C to 60°C)   |          |          |         |         |         |
| Leak Rate at -40°F (-40°C)              |                 | 7 Ncm <sup>3</sup> / 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<br>Material: Nylon 12 |          |          |         |         |         |
| Tube O.D.                               |                 | 5/32", 1/4", 3/8", 1/2", 5/8", 3/4"  |          |          |         |         |         |

FITTINGS



#### STRAIGHT UNION

| IBS No. | Tube OD inch | Qty |
|---------|--------------|-----|
| 86071   | 5/32         | 1   |
| 86072   | 1/4          | 1   |
| 86073   | 3/8          | 1   |
| 86074   | 1/2          | 1   |
| 86075   | 5/8          | 1   |



#### UNION TEE

| IBS No. | Tube OD inch | Qty |
|---------|--------------|-----|
| 86081   | 1/4          | 1   |
| 86082   | 3/8          | 1   |
| 86083   | 1/2          | 1   |
| 86084   | 5/8          | 1   |



#### UNION 90° ELBOW

| IBS No. | Tube OD inch | Qty |
|---------|--------------|-----|
| 86077   | 1/4          | 1   |
| 86078   | 3/8          | 1   |
| 86079   | 1/2          | 1   |



# IBS, INCORPORATED

## Composite DOT Push Connect Fittings O12

FITTINGS



### MALE CONNECTOR

| IBS No. | Tube OD inch | NPT Thread | Qty |
|---------|--------------|------------|-----|
| 86001   | 5/32         | 1/8-27     | 1   |
| 86003   | 1/4          | 1/8-27     | 1   |
| 86004   | 1/4          | 1/4-18     | 1   |
| 86005   | 1/4          | 3/8-18     | 1   |
| 86006   | 3/8          | 1/8-27     | 1   |
| 86007   | 3/8          | 1/4-18     | 1   |
| 86008   | 3/8          | 3/8-18     | 1   |
| 86009   | 3/8          | 1/2-14     | 1   |
| 86010   | 1/2          | 1/4-18     | 1   |
| 86011   | 1/2          | 3/8-18     | 1   |
| 86012   | 1/2          | 1/2-14     | 1   |
| 86013   | 5/8          | 3/8-18     | 1   |
| 86014   | 5/8          | 1/2-14     | 1   |



### 90° MALE ELBOW

| IBS No. | Tube OD inch | NPT Thread | Qty |
|---------|--------------|------------|-----|
| 86016   | 5/32         | 1/8-27     | 1   |
| 86017   | 1/4          | 1/8-27     | 1   |
| 86018   | 1/4          | 1/4-18     | 1   |
| 86019   | 1/4          | 3/8-18     | 1   |
| 86020   | 3/8          | 1/8-27     | 1   |
| 86021   | 3/8          | 1/4-18     | 1   |
| 86022   | 3/8          | 3/8-18     | 1   |
| 86023   | 3/8          | 1/2-14     | 1   |
| 86024   | 1/2          | 1/4-18     | 1   |
| 86025   | 1/2          | 3/8-18     | 1   |
| 86026   | 1/2          | 1/2-14     | 1   |
| 86027   | 5/8          | 3/8-18     | 1   |
| 86028   | 5/8          | 1/2-14     | 1   |



### FEMALE CONNECTOR

| IBS No. | Tube OD inch | NPT Thread | Qty |
|---------|--------------|------------|-----|
| 86058   | 5/32         | 1/8-27     | 1   |
| 86059   | 5/32         | 1/4-18     | 1   |
| 86060   | 1/4          | 1/8-27     | 1   |
| 86061   | 1/4          | 1/4-18     | 1   |
| 86062   | 1/4          | 3/8-18     | 1   |
| 86063   | 3/8          | 1/8-27     | 1   |
| 86064   | 3/8          | 1/4-18     | 1   |
| 86065   | 3/8          | 3/8-18     | 1   |
| 86066   | 3/8          | 1/2-14     | 1   |
| 86067   | 1/2          | 1/8-27     | 1   |
| 86068   | 1/2          | 1/4-18     | 1   |
| 86069   | 1/2          | 3/8-18     | 1   |
| 86070   | 1/2          | 1/2-14     | 1   |



### 45° MALE ELBOW

| IBS No. | Tube OD inch | NPT Thread | Qty |
|---------|--------------|------------|-----|
| 86031   | 1/4          | 1/8-27     | 1   |
| 86032   | 1/4          | 1/4-18     | 1   |
| 86034   | 3/8          | 1/4-18     | 1   |
| 86035   | 3/8          | 3/8-18     | 1   |
| 86038   | 1/2          | 1/4-18     | 1   |
| 86039   | 1/2          | 3/8-18     | 1   |
| 86040   | 1/2          | 1/2-14     | 1   |
| 86041   | 5/8          | 3/8-18     | 1   |
| 86042   | 5/8          | 1/2-14     | 1   |



### BULKHEAD UNION

| IBS No. | Tube OD inch | UNF Thread | Qty |
|---------|--------------|------------|-----|
| 86086   | 1/4          | 9/16-18    | 1   |
| 86087   | 3/8          | 7/8-14     | 1   |
| 86088   | 1/2          | 1-12       | 1   |
| 86089   | 5/8          | 1-1/8-12   | 1   |



### MALE BRANCH TEE

| IBS No. | Tube OD inch | NPT Thread | Qty |
|---------|--------------|------------|-----|
| 86047   | 1/4          | 1/8-27     | 1   |
| 86048   | 1/4          | 1/4-18     | 1   |
| 86049   | 1/4          | 3/8-18     | 1   |
| 86050   | 3/8          | 1/4-18     | 1   |
| 86051   | 3/8          | 3/8-18     | 1   |
| 86053   | 1/2          | 1/4-18     | 1   |
| 86054   | 1/2          | 3/8-18     | 1   |
| 86055   | 1/2          | 1/2-14     | 1   |

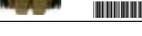
# IBS, INCORPORATED



## Composite DOT Push Connect Fittings O12

### Composite Body DOT Air Brake Fittings

IBS No. 829R • 18 Items • 30 Pcs

|  <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/> INDUSTRIALDOT.COM © © © 800-678-1506</small> |  | <b>Composite DOT Push Connect Fittings - 1/4", 3/8" and 1/2"</b>   |   |
|--|--|--|---|
| Assortment No. 829R  |  |  |   |
| <b>86018</b><br>1/4 X 1/4 COMPOSITE DOT 90DGR<br>MALE ELBOW PUSH CONNECT<br>  | <b>86022</b><br>3/8 X 3/8 COMPOSITE DOT 90DGR<br>MALE ELBOW PUSH CONNECT<br>  | <b>86026</b><br>1/2 X 1/2 COMPOSITE DOT 90DGR<br>MALE ELBOW PUSH CONNECT<br> |  |
| <b>86017</b><br>1/4 X 1/8 COMPOSITE DOT 90DGR<br>MALE ELBOW PUSH CONNECT<br>  | <b>86021</b><br>3/8 X 1/4 COMPOSITE DOT 90DGR<br>MALE ELBOW PUSH CONNECT<br>  | <b>86025</b><br>1/2 X 3/8 COMPOSITE DOT 90DGR<br>MALE ELBOW PUSH CONNECT<br> |   |
| <b>86004</b><br>1/4 X 1/4 COMPOSITE DOT MALE<br>PUSH CONNECT<br>  | <b>86008</b><br>3/8 X 3/8 COMPOSITE DOT MALE<br>PUSH CONNECT<br>              | <b>86012</b><br>1/2 X 1/2 COMPOSITE DOT MALE<br>PUSH CONNECT<br>             |   |
| <b>86003</b><br>1/4 X 1/8 COMPOSITE DOT MALE<br>PUSH CONNECT<br>  | <b>86007</b><br>3/8 X 1/4 COMPOSITE DOT MALE<br>PUSH CONNECT<br>              | <b>86011</b><br>1/2 X 3/8 COMPOSITE DOT MALE<br>PUSH CONNECT<br>             |   |
| <b>86086</b><br>1/4 X 9/16-18 COMPOSITE DOT<br>BULKHEAD UNION PUSH CONNECT<br>  | <b>86087</b><br>3/8 X 7/8-14 COMPOSITE DOT<br>BULKHEAD UNION PUSH CONNECT<br> | <b>86088</b><br>1/2 X 1-12 COMPOSITE DOT<br>BULKHEAD UNION PUSH CONNECT<br>  |   |
| <b>86072</b><br>1/4 COMPOSITE DOT UNION PUSH<br>CONNECT<br>  | <b>86073</b><br>3/8 COMPOSITE DOT UNION PUSH<br>CONNECT<br>                  | <b>86074</b><br>1/2 COMPOSITE DOT UNION PUSH<br>CONNECT<br>                 |   |

FITTINGS



# IBS, INCORPORATED

## Poly-Push Composite Fittings O12

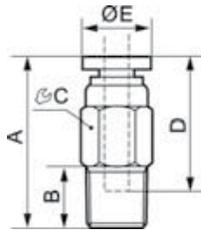
### Poly-Push Composite Fittings — Fractional



#### FEATURES & BENEFITS

- Made from lightweight, rugged polymer, Poly-Push Nickel Composite push-in fittings provide both high performance and easy installation.
- **Fully reusable** — can be used many times over (no replacement ferrules or inserts are needed).
- Automatically **locks and seals** to maximum working pressure.
- **Does not limit tubing flow** — no part of the fitting goes inside the tubing.
- **External and internal hex and port plugs as well as sealed threads** produce a secure, easy installation.
- **Positive grip action locking teeth** prevent loosening due to vibration for optimum safety.
- **Easy and instant connections** — simply push the tubing in to the fitting to connect.
- **Easy and instant disconnects** — apply pressure to the release collar to release the teeth from the tubing.

### Male Connectors — Nickel Plated Brass



| IBS No. | Tube OD inch | MNPT Thread | A     | B    | C     | D    | E    | Qty |
|---------|--------------|-------------|-------|------|-------|------|------|-----|
| 56822   | 1/8          | 1/8         | .827  | .315 | 7/16  | .63  | .394 | 5   |
| 56824   | 1/8          | 1/4         | .827  | .315 | 7/16  | .63  | .394 | 5   |
| 56832   | 5/32         | 1/8         | .846  | .315 | 7/16  | .63  | .394 | 5   |
| 56834   | 5/32         | 1/4         | .846  | .433 | 9/16  | .63  | .394 | 5   |
| 56842   | 1/4          | 1/8         | .945  | .315 | 1/2   | .669 | .504 | 5   |
| 56844   | 1/4          | 1/4         | .925  | .433 | 9/16  | .669 | .504 | 5   |
| 56846   | 1/4          | 3/8         | .965  | .472 | 11/16 | .669 | .504 | 5   |
| 56852   | 5/16         | 1/8         | 1.063 | .315 | 9/16  | .709 | .543 | 5   |
| 56854   | 5/16         | 1/4         | 1.043 | .433 | 9/16  | .709 | .543 | 5   |
| 56856   | 5/16         | 3/8         | .984  | .472 | 11/16 | .709 | .543 | 5   |
| 56862   | 3/8          | 1/8         | 1.146 | .315 | 11/16 | .76  | .661 | 5   |
| 56864   | 3/8          | 1/4         | 1.224 | .433 | 11/16 | .76  | .661 | 5   |
| 56866   | 3/8          | 3/8         | 1.087 | .472 | 11/16 | .76  | .661 | 5   |
| 56868   | 3/8          | 1/2         | 1.126 | .591 | 7/8   | .76  | .661 | 5   |
| 56884   | 1/2          | 1/4         | 1.299 | .433 | 7/8   | .787 | .807 | 5   |
| 56886   | 1/2          | 3/8         | 1.22  | .472 | 7/8   | .787 | .807 | 5   |
| 56888   | 1/2          | 1/2         | 1.161 | .591 | 7/8   | .787 | .807 | 5   |

FITTINGS

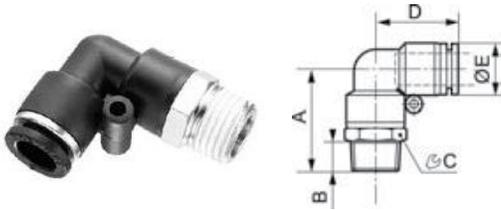
# IBS, INCORPORATED

## Poly-Push Composite Fittings O12



### Poly-Push Composite Fittings — Fractional

#### Male Elbows



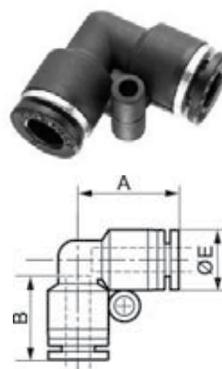
| IBS No. | Tube OD | MNPT | A     | B    | C     | D     | E    | Qty |
|---------|---------|------|-------|------|-------|-------|------|-----|
| 57922   | 1/8     | 1/8  | 1.004 | .315 | 7/16  | .689  | .394 | 5   |
| 57924   | 1/8     | 1/4  | 1.004 | .315 | 7/16  | .689  | .394 | 5   |
| 57932   | 5/32    | 1/8  | 1.004 | .315 | 7/16  | .689  | .394 | 5   |
| 57934   | 5/32    | 1/4  | 1.122 | .433 | 9/16  | .689  | .394 | 5   |
| 57942   | 1/4     | 1/8  | 1.122 | .315 | 1/2   | .807  | .504 | 5   |
| 57944   | 1/4     | 1/4  | 1.22  | .433 | 9/16  | .807  | .504 | 5   |
| 57946   | 1/4     | 3/8  | 1.28  | .472 | 11/16 | .807  | .504 | 5   |
| 57952   | 5/16    | 1/8  | 1.181 | .315 | 9/16  | .886  | .543 | 5   |
| 57954   | 5/16    | 1/4  | 1.299 | .433 | 9/16  | .886  | .543 | 5   |
| 57956   | 5/16    | 3/8  | 1.358 | .472 | 11/16 | .886  | .543 | 5   |
| 57962   | 3/8     | 1/8  | 1.327 | .315 | 11/16 | 1.035 | .661 | 5   |
| 57964   | 3/8     | 1/4  | 1.445 | .433 | 11/16 | 1.035 | .661 | 5   |
| 57966   | 3/8     | 3/8  | 1.484 | .472 | 11/16 | 1.035 | .661 | 5   |
| 57968   | 3/8     | 1/2  | 1.642 | .591 | 7/8   | 1.035 | .661 | 5   |
| 57984   | 1/2     | 1/4  | 1.543 | .433 | 7/8   | 1.118 | .807 | 5   |
| 57986   | 1/2     | 3/8  | 1.583 | .472 | 7/8   | 1.118 | .807 | 5   |
| 57988   | 1/2     | 1/2  | 1.72  | .591 | 7/8   | 1.118 | .807 | 5   |

#### Poly-Push Unions



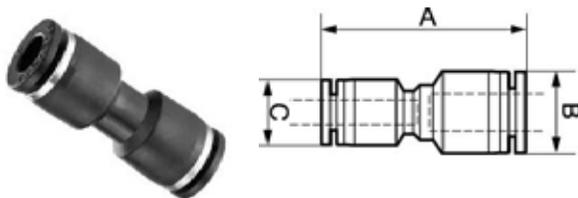
| IBS No. | Tube OD | A     | E    | Qty |
|---------|---------|-------|------|-----|
| 56222   | 1/8     | 1.181 | .694 | 5   |
| 56233   | 5/32    | 1.181 | .394 | 5   |
| 56244   | 1/4     | 1.445 | .504 | 5   |
| 56255   | 5/16    | 1.535 | .543 | 5   |
| 56266   | 3/8     | 1.661 | .661 | 5   |
| 56288   | 1/2     | 1.744 | .807 | 5   |

#### 90° Union Elbows



| IBS No. | Tube OD | A     | B    | Qty |
|---------|---------|-------|------|-----|
| 56522   | 1/8     | .689  | .61  | 5   |
| 56533   | 5/32    | .689  | .61  | 5   |
| 56544   | 1/4     | .807  | .614 | 5   |
| 56555   | 5/16    | .898  | .709 | 5   |
| 56566   | 3/8     | 1.035 | .76  | 5   |
| 56588   | 1/2     | 1.118 | .843 | 5   |

#### Poly-Push Union Reducer



| IBS No. | Tube OD | Tube OD | A     | B    | C    | Qty |
|---------|---------|---------|-------|------|------|-----|
| 56242   | 1/4     | 1/8     | 1.32  | .504 | .709 | 5   |
| 56264   | 3/8     | 1/4     | 1.618 | .661 | .504 | 5   |

FITTINGS

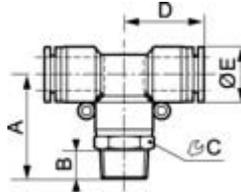


# IBS, INCORPORATED

## Poly-Push Composite Fittings O12

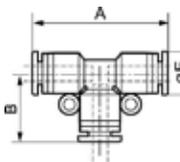
### Poly-Push Composite Fittings — Fractional

#### Male Swivel Branch Tees



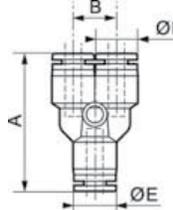
| IBS No. | Tube OD | MNPT | A     | B    | C     | D     | E    | Qty |
|---------|---------|------|-------|------|-------|-------|------|-----|
| 57222   | 1/8     | 1/8  | 1.004 | .315 | 7/16  | .689  | .394 | 5   |
| 57232   | 5/32    | 1/8  | 1.004 | .315 | 7/16  | .689  | .394 | 5   |
| 57242   | 1/4     | 1/8  | 1.122 | .315 | 1/2   | .807  | .504 | 5   |
| 57244   | 1/4     | 1/4  | 1.22  | .433 | 9/16  | .807  | .504 | 5   |
| 57246   | 1/4     | 3/8  | 1.28  | .472 | 11/16 | .807  | .504 | 5   |
| 57252   | 5/16    | 1/4  | 1.181 | .315 | 9/16  | .886  | .543 | 5   |
| 57254   | 5/16    | 1/4  | 1.299 | .433 | 9/16  | .886  | .543 | 5   |
| 57262   | 3/8     | 1/8  | 1.327 | .315 | 11/16 | 1.035 | .661 | 5   |
| 57264   | 3/8     | 1/4  | 1.445 | .433 | 11/16 | 1.035 | .661 | 5   |
| 57266   | 3/8     | 3/8  | 1.484 | .472 | 11/16 | 1.035 | .661 | 5   |
| 57284   | 1/2     | 1/4  | 1.543 | .433 | 7/8   | 1.118 | .807 | 5   |
| 57286   | 1/2     | 3/8  | 1.583 | .472 | 7/8   | 1.118 | .807 | 5   |
| 57288   | 1/2     | 1/2  | 1.72  | .591 | 7/8   | 1.118 | .807 | 5   |

#### Poly-Push Union Tees



| IBS No. | Tube OD | A     | B     | E    | Qty |
|---------|---------|-------|-------|------|-----|
| 56422   | 1/8     | 1.378 | .689  | .394 | 5   |
| 56433   | 5/32    | 1.378 | .689  | .394 | 5   |
| 56444   | 1/4     | 1.575 | .787  | .504 | 5   |
| 56455   | 5/16    | 1.795 | .898  | .543 | 5   |
| 56466   | 3/8     | 2.016 | 1.008 | .661 | 5   |
| 56488   | 1/2     | 2.236 | 1.118 | .807 | 5   |

#### Poly-Push Union "Y" Reducer



| IBS No. | Tube OD | A     | B    | E    | Qty |
|---------|---------|-------|------|------|-----|
| 54122   | 1/8     | 1.339 | .413 | .394 | 5   |
| 54133   | 5/32    | 1.339 | .413 | .394 | 5   |
| 54144   | 1/4     | 1.457 | .512 | .504 | 5   |
| 54155   | 5/16    | 1.48  | .571 | .543 | 5   |
| 54166   | 3/8     | 1.992 | .709 | .661 | 5   |

FITTINGS

# IBS, INCORPORATED

## Assortments Z02



### Poly-Push Fractional Composite Fittings 1/8" - 5/16"

IBS No. 336R • 22 Items - 41 Pieces

Packaged in a locking steel drawer for easy storage & organization

|   |  |  |  |  |  |
|---|--|--|--|--|--|
|    |  | <p align="right"><b>Poly-Push Composite Fractional Fittings for Nylon Tubing</b><br/>1/8", 5/32", 1/4" &amp; 5/16"<br/>Assortment No. 336R</p> |  |  |  |
| <p>56222<br/>1/8 COMPOSITE STRAIGHT UNION</p>  | <p>56233<br/>5/32 COMPOSITE STRAIGHT UNION</p>  | <p>56244<br/>1/4 COMPOSITE STRAIGHT UNION</p>                 | <p>56242<br/>1/4 X 1/8 COMPOSITE UNION RED</p>  | <p>56255<br/>5/16 COMPOSITE STRAIGHT UNION</p>  |  |
| <p>56422<br/>1/8 COMPOSITE UNION TEE POLY</p>  | <p>56444<br/>1/4 COMPOSITE UNION TEE POLY</p>   | <p>56522<br/>1/8 COMPOSITE UNION ELBOW</p>                    | <p>56544<br/>1/4 COMPOSITE UNION ELBOW</p>      |  | <p>57244<br/>1/4 X 1/4 COMP M SWIV BR TEE</p>   |
| <p>56822<br/>1/8 X 1/8 COMPOSITE M CONN</p>    | <p>56824<br/>1/8 X 1/4 COMPOSITE M CONN</p>     | <p>56832<br/>5/32 X 1/8 COMPOSITE M CONN</p>                  | <p>56842<br/>1/4 X 1/8 COMPOSITE M CONN</p>     | <p>56844<br/>1/4 X 1/4 COMPOSITE M CONN</p>     | <p>56854<br/>5/16 X 1/4 COMPOSITE M CONN</p>    |
| <p>57922<br/>1/8 X 1/8 COMP M SWIV ELBOW</p>  | <p>57924<br/>1/8 X 1/4 COMP M SWIV ELBOW</p>   | <p>57932<br/>5/32 X 1/8 COMP M SWIV ELBOW</p>                | <p>57942<br/>1/4 X 1/8 COMP M SWIV ELBOW</p>   | <p>57944<br/>1/4 X 1/4 COMP M SWIV ELBOW</p>   | <p>57954<br/>5/16 X 1/4 COMP M SWIV ELBOW</p>  |

### Poly-Push Fractional Composite Fittings 3/8" & 1/2"

IBS No. 337R • 17 Items - 24 Pieces

Packaged in a locking steel drawer for easy storage & organization

|   |  |   |  |   |  |
|---|--|---|--|---|--|
|    |  | <p align="right"><b>Poly-Push Composite Fractional Fittings for Nylon Tubing</b><br/>3/8" &amp; 1/2"<br/>Assortment No. 337R</p>  |  |   |  |
| <p>56266<br/>3/8 COMPOSITE STRAIGHT UNION</p>  | <p>56264<br/>3/8 X 1/4 COMPOSITE UNION RED</p>  | <p>56288<br/>1/2 COMPOSITE STRAIGHT UNION</p>  | <p>57264<br/>3/8 X 1/4 COMP M SWIV BR TEE</p>  | <p>57286<br/>1/2 X 3/8 COMP M SWIV BR TEE</p>  |  |
| <p>56466<br/>3/8 COMPOSITE UNION TEE POLY</p>  | <p>56488<br/>1/2 COMPOSITE UNION TEE POLY</p>   | <p>56566<br/>3/8 COMPOSITE UNION ELBOW</p>     | <p>56588<br/>1/2 COMPOSITE UNION ELBOW</p>     |   |  |
| <p>56864<br/>3/8 X 1/4 COMPOSITE M CONN</p>    | <p>56866<br/>3/8 X 3/8 COMPOSITE M CONN</p>     | <p>56886<br/>1/2 X 3/8 COMPOSITE M CONN</p>    | <p>56888<br/>1/2 X 1/2 COMPOSITE M CONN</p>    |   |  |
| <p>57964<br/>3/8 X 1/4 COMP M SWIV ELBOW</p>   | <p>57966<br/>3/8 X 3/8 COMP M SWIV ELBOW</p>    | <p>57986<br/>1/2 X 3/8 COMP M SWIV ELBOW</p>   | <p>57988<br/>1/2 X 1/2 COMP M SWIV ELBOW</p>   |   |  |



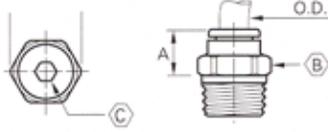
FITTINGS



# IBS, INCORPORATED

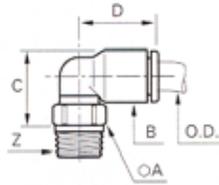
## Poly-Push Composite Fittings O12

### Poly-Push Composite Fittings — Metric Male Connectors — Nickel Plated Brass



| IBS No. | Tube OD mm | ZBSPT Thread | A mm | B mm | C mm | D mm | Qty |
|---------|------------|--------------|------|------|------|------|-----|
| 301202  | M4         | 1/8          | 10   | 3    | 9.5  | 11   | 5   |
| 301203  | M4         | 1/4          | 14   | 3    | 6.5  | 15   | 5   |
| 301212  | M6         | 1/8          | 11   | 4    | 11.5 | 11   | 5   |
| 301213  | M6         | 1/4          | 14   | 4    | 8.5  | 15   | 5   |
| 301217  | M8         | 1/8          | 13   | 5    | 20   | 14   | 5   |
| 301218  | M8         | 1/4          | 14   | 6    | 17   | 15   | 5   |
| 301219  | M8         | 3/8          | 17   | 6    | 13   | 18.5 | 5   |
| 301223  | M10        | 1/4          | 16   | 7    | 20   | 17.5 | 5   |
| 301224  | M10        | 3/8          | 17   | 8    | 16.5 | 18.5 | 5   |
| 301225  | M10        | 1/2          | 21   | 8    | 14   | 23   | 5   |
| 301228  | M12        | 1/4          | 19   | 7    | 26.5 | 21   | 5   |
| 301229  | M12        | 3/8          | 19   | 9    | 24   | 21   | 5   |
| 301230  | M12        | 1/2          | 21   | 9    | 19.5 | 23   | 5   |
| 301234  | M14        | 3/8          | 22   | 9    | 28.5 | 24   | 5   |
| 301235  | M14        | 1/2          | 24   | 10   | 23.5 | 26   | 5   |

### Male Swivel Elbows



| IBS No. | Tube OD mm | ZBSPT Thread | A mm | B mm | C mm | D mm | Qty |
|---------|------------|--------------|------|------|------|------|-----|
| 302202  | M4         | 1/8          | 10   | 8.5  | 13.5 | 14   | 5   |
| 302203  | M4         | 1/4          | 14   | 8.5  | 14   | 14   | 5   |
| 302212  | M6         | 1/8          | 10   | 10.5 | 15.5 | 16   | 5   |
| 302213  | M6         | 1/4          | 14   | 10.5 | 16   | 16   | 5   |
| 302217  | M8         | 1/8          | 10   | 13.5 | 19   | 23   | 5   |
| 302218  | M8         | 1/4          | 14   | 13.5 | 19   | 23   | 5   |
| 302219  | M8         | 3/8          | 17   | 13.5 | 18   | 23   | 5   |
| 302223  | M10        | 1/4          | 15   | 16   | 22   | 26.5 | 5   |
| 302224  | M10        | 3/8          | 17   | 16   | 22   | 26.5 | 5   |
| 302225  | M10        | 1/2          | 21   | 16   | 22   | 26.5 | 5   |
| 302228  | M12        | 1/4          | 15   | 19   | 25   | 31   | 5   |
| 302229  | M12        | 3/8          | 17   | 19   | 25   | 31   | 5   |
| 302230  | M12        | 1/2          | 21   | 19   | 25   | 31   | 5   |
| 302234  | M14        | 3/8          | 20   | 22   | 30.5 | 35.5 | 5   |
| 302235  | M14        | 1/2          | 24   | 22   | 28.5 | 35.5 | 5   |

FITTINGS

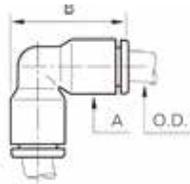
# IBS, INCORPORATED

## Metric Poly-Push Composite Fittings O12



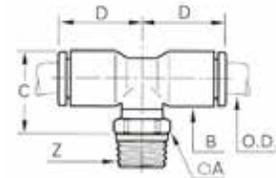
### Poly-Push Composite Fittings - Metric

#### 90 °Union Elbows



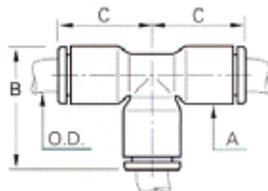
| IBS No. | Tube OD 1mm | A mm | B mm | Qty |
|---------|-------------|------|------|-----|
| 304250  | M4          | 8.5  | 19   | 5   |
| 304263  | M6          | 10.5 | 22.5 | 5   |
| 304268  | M8          | 13.5 | 29.5 | 5   |
| 304272  | M10         | 16   | 34.5 | 5   |
| 304275  | M12         | 19   | 40.5 | 5   |
| 304277  | M14         | 22   | 46.5 | 5   |

#### Male Swivel Branch Tees



| IBS No. | Tube OD 1mm | Z BSPT Thread | A mm | B mm | C mm | D mm | Qty |
|---------|-------------|---------------|------|------|------|------|-----|
| 307202  | M4          | 1/8           | 10   | 8.5  | 9    | 14   | 5   |
| 307203  | M4          | 1/4           | 14   | 8.5  | 9.5  | 14   | 5   |
| 307212  | M6          | 1/8           | 10   | 10.5 | 10   | 16   | 5   |
| 307213  | M6          | 1/4           | 14   | 10.5 | 10.5 | 16   | 5   |
| 307217  | M8          | 1/8           | 10   | 13.5 | 12   | 23   | 5   |
| 307218  | M8          | 1/4           | 14   | 13.5 | 11   | 23   | 5   |
| 307219  | M8          | 3/8           | 17   | 13.5 | 11   | 23   | 5   |
| 307223  | M10         | 1/4           | 15   | 16   | 14   | 26.5 | 5   |
| 307224  | M10         | 3/8           | 17   | 16   | 14   | 26.5 | 5   |
| 307225  | M10         | 1/2           | 21   | 16   | 14   | 26.5 | 5   |
| 308228  | M12         | 1/4           | 15   | 19   | 15.5 | 31   | 5   |
| 307229  | M12         | 3/8           | 17   | 19   | 15.5 | 31   | 5   |
| 307230  | M12         | 1/2           | 21   | 19   | 15.5 | 31   | 5   |
| 307234  | M14         | 3/8           | 20   | 22   | 19.5 | 35.5 | 5   |
| 307235  | M14         | 1/2           | 24   | 22   | 17.5 | 35.5 | 5   |

#### Union Tees



| IBS No. | Tube OD 1mm | A mm | B mm | C mm | Qty |
|---------|-------------|------|------|------|-----|
| 305250  | M4          | 8.5  | 19   | 14.5 | 5   |
| 305263  | M6          | 10.5 | 22.5 | 17.5 | 5   |
| 305268  | M8          | 13.5 | 29.5 | 23   | 5   |
| 305272  | M10         | 16   | 34.5 | 26.5 | 5   |
| 305275  | M12         | 19   | 40.5 | 31   | 5   |
| 305277  | M14         | 22   | 46   | 35.5 | 5   |

FITTINGS



# IBS, INCORPORATED

## Metric Poly-Push Composite Fittings O12

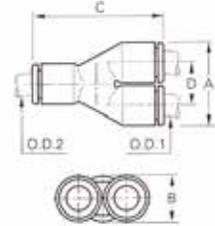
### Poly-Push Composite Fittings - Metric

#### Straight Unions



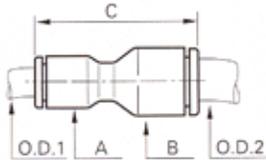
| IBS No. | Tube OD (mm) | A mm | B mm | Qty |
|---------|--------------|------|------|-----|
| 309250  | M4           | 8.5  | 25   | 5   |
| 309263  | M6           | 10.5 | 28.5 | 5   |
| 309268  | M8           | 13.5 | 38   | 5   |
| 309272  | M10          | 16   | 42   | 5   |
| 309275  | M12          | 19   | 50.5 | 5   |
| 309277  | M14          | 22   | 56   | 5   |

#### Straight "Y" Unions



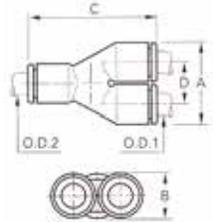
| IBS No. | Tube OD 1mm | Tube OD 2mm | A mm | B mm | C mm | D mm | Qty |
|---------|-------------|-------------|------|------|------|------|-----|
| 315250  | M4          | M4          | 17.5 | 8.5  | 28.5 | 9    | 5   |
| 315263  | M6          | M6          | 21.5 | 10.5 | 35   | 11   | 5   |
| 315268  | M8          | M8          | 28   | 13.5 | 45   | 14.5 | 5   |
| 315272  | M10         | M10         | 33   | 16   | 53   | 17   | 5   |

#### Straight Reducing Unions



| IBS No. | Tube OD 1mm | Tube OD 2mm | A mm | B mm | C mm | Qty |
|---------|-------------|-------------|------|------|------|-----|
| 309252  | M4          | M6          | 8.5  | 11   | 28   | 5   |
| 309264  | M6          | M8          | 13.5 | 13.5 | 38   | 5   |
| 309269  | M8          | M10         | 16   | 16   | 42   | 5   |

#### Reducing "Y" Unions



| IBS No. | Tube OD 1mm | Tube OD 2mm | A mm | B mm | C mm | D mm | Qty |
|---------|-------------|-------------|------|------|------|------|-----|
| 315252  | M4          | M6          | 17.5 | 10.5 | 33   | 9    | 5   |
| 315264  | M6          | M8          | 22.5 | 13.5 | 41   | 11.5 | 5   |
| 315269  | M8          | M10         | 28   | 16   | 47   | 14.5 | 5   |

FITTINGS



### Push-On Hose Fitting M4, M6 & M8 Assortment

IBS No. 332R • 24 Items - 39 Pieces

Packaged in a locking steel drawer for easy storage & organization

| <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/> INDUSTRIALBOLT.COM © © © 800-678-1906</small> |  | <b>Poly-Push Composite Metric Fittings for Nylon Tubing M4, M6 &amp; M8</b><br><small>Assortment No. 332R</small> |  |  |   |
|---|--|---|--|--|---|
| <b>301202</b><br>M4 X 1/8BSPT COMPOSITE M CONN<br>  | <b>301212</b><br>M6 X 1/8BSPT COMPOSITE M CONN<br> | <b>301213</b><br>M6 X 1/4BSPT COMPOSITE M CONN<br>  | <b>301218</b><br>M8 X 1/4BSPT COMPOSITE M CONN<br> | <b>301219</b><br>M8 X 3/8BSPT COMPOSITE M CONN<br> | <b>309250</b><br>M4 COMPOSITE STRAIGHT UNION<br>  |
| <b>302202</b><br>M4 X 1/8BSPT COMP M SWIV<br>   | <b>302212</b><br>M6 X 1/8BSPT COMP M SWIV<br>      | <b>302213</b><br>M6 X 1/4BSPT COMP M SWIV<br>   | <b>302218</b><br>M8 X 1/4BSPT COMP M SWIV<br>      | <b>302219</b><br>M8 X 3/8BSPT COMP M SWIV<br>      | <b>309263</b><br>M6 COMPOSITE UNION CONN POLY<br> |
| <b>307202</b><br>M4 X 1/8BSPT COMP M BRANCH<br>   | <b>307212</b><br>M6 X 1/8BSPT COMP M BRANCH<br>    | <b>307213</b><br>M6 X 1/4BSPT COMP M BRANCH<br>   | <b>307218</b><br>M8 X 1/4BSPT COMP M BRANCH<br>    | <b>307219</b><br>M8 X 3/8BSPT COMP M BRANCH<br>    | <b>309268</b><br>M8 COMPOSITE STRAIGHT UNION<br>  |
| <b>304250</b><br>M4 COMPOSITE UNION ELBOW POLY<br>  | <b>304263</b><br>M6 COMPOSITE UNION ELBOW POLY<br> | <b>304268</b><br>M8 COMPOSITE UNION ELBOW POLY<br>  | <b>305250</b><br>M4 COMPOSITE UNION TEE POLY<br>   | <b>305263</b><br>M6 COMPOSITE UNION TEE POLY<br>   | <b>305268</b><br>M8 COMPOSITE UNION TEE POLY<br>  |

### Push-On Hose Fittings M10 & M12 Assortment

IBS No. 333R • 17 Items - 19 Pieces

Packaged in a locking steel drawer for easy storage & organization

| <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/> INDUSTRIALBOLT.COM © © © 800-678-1906</small> |  | <b>Poly-Push Composite Metric Fittings for Nylon Tubing M10 &amp; M12</b><br><small>Assortment No. 333R</small> |  |  |
|---|--|---|--|--|
| <b>301223</b><br>M10 X 1/4BSPT COMPOSITE M<br>  | <b>301224</b><br>M10 X 3/8BSPT COMPOSITE M<br>     | <b>301225</b><br>M10 X 1/2BSPT COMPOSITE M<br>  | <b>301229</b><br>M12 X 3/8BSPT COMPOSITE M<br>     | <b>301230</b><br>M12 X 1/2BSPT COMPOSITE M<br> |
| <b>302223</b><br>M10 X 1/4BSPT COMP M SWIV ELB<br>  | <b>302224</b><br>M10 X 3/8BSPT COMP M SWIV ELB<br> | <b>302229</b><br>M12 X 3/8BSPT COMP M SWIV ELB<br>  | <b>302230</b><br>M12 X 1/2BSPT COMP M SWIV ELB<br> |  |
| <b>304272</b><br>M10 COMPOSITE UNION ELBOW<br>  | <b>304275</b><br>M12 COMPOSITE UNION ELBOW<br>     | <b>305272</b><br>M10 COMPOSITE UNION TEE POLY<br>   | <b>305275</b><br>M12 COMPOSITE UNION TEE POLY<br>  |  |
| <b>309272</b><br>M10 COMPOSITE STRAIGHT UNION<br>   | <b>309275</b><br>M12 COMPOSITE STRAIGHT UNION<br>  | <b>307224</b><br>M10 X 3/8BSPT COMP M BRANCH<br>  | <b>307230</b><br>M12 X 1/2BSPT COMP M BRANCH<br>   |  |

FITTINGS



# IBS, INCORPORATED

## Drain Cocks & Valves O05

### Drain Cocks

- **Metal to Metal seat** requires only hand tightening to assure leak-proof performance.
- Use with copper, aluminum, steel, hose and plastic tubing where applicable.
- Operating temperature range from -65°F to +250°F.
- Designed for automotive or industrial use. Not intended for natural gas, LPG, nuclear or aircraft applications, except as noted.

### External Seat

| IBS No. | W'Head No. | MPT | Hex   | Qty |
|---------|------------|-----|-------|-----|
| WHD135  | 135        | 1/8 | 7/16  | 5   |
| WHD145  | 145        | 1/4 | 9/16  | 5   |
| WHD270  | 270        | 3/8 | 11/16 | 3   |
| WHD108  | 108        | 1/2 | 7/8   | 1   |



### Internal Seat

| IBS No. | W'Head No. | MPT | Hex   | Qty |
|---------|------------|-----|-------|-----|
| WHD130  | 130        | 1/8 | 17/32 | 5   |
| WHD140  | 140        | 1/4 | 5/8   | 5   |



### Internal Seat Drain Valve

| IBS No.  | W'Head No. | MPT | Hex   | Qty |
|----------|------------|-----|-------|-----|
| WHD-1424 | 1424A      | 1/8 | 1/2   | 5   |
| WHD-1425 | 1425A      | 1/4 | 9/16  | 5   |
| WHD-1426 | 1426A      | 3/8 | 11/16 | 3   |



### Angle Bib Drain

| IBS No. | W'Head No. | MPT | Hose | Qty |
|---------|------------|-----|------|-----|
| WHD150  | 150        | 1/8 | 1/4  | 5   |
| WHD6660 | 6660       | 1/4 | 3/8  | 5   |



### Pipe to Hose Shut-Off

| IBS No. | W'Head No. | MPT | Hose | Qty |
|---------|------------|-----|------|-----|
| WHD1422 | 1422       | 3/8 | 3/8  | 1   |
| 229KF   | NA         | 3/8 | 1/2  | 1   |
| WHD1423 | 1423       | 3/8 | 5/8  | 1   |



### Air Tank Drain Valve

| IBS No.    | W'Head No. | MPT | Qty |
|------------|------------|-----|-----|
| WHD-1421 * | 1421       | 1/4 | 2   |



\* **Self-sealing** w/5ft remote cable.

### Ground Plug Shut-Offs

- Use with copper, aluminum, steel, hose and plastic tubing where applicable.
- Operating pressure range 30 psi working pressure except where noted.
- Operating temperature range from -65°F to +250°F.
- Designed for automotive or industrial use. Not intended for natural gas, LPG, nuclear or aircraft applications, except as noted.

### Truck Drain (O08)

| IBS No. | W'Head No. | MPT | Qty |
|---------|------------|-----|-----|
| W15310  | W15310     | 1/4 | 3   |



*Valve is designed to hold air pressure of 125 psi with one 1/4" bubble in 5 seconds permissible key leakage.*

### Ground Plug Drain

| IBS No.  | W'Head No. | MPT | Hex   | Qty |
|----------|------------|-----|-------|-----|
| 6891     | 6981       | 1/8 | 9/16  | 3   |
| WHD-6892 | 6892       | 1/4 | 5/8   | 3   |
| WHD-6893 | 6893       | 3/8 | 11/16 | 3   |



### Male to Female Pipe Shut-Off

| IBS No. | W'Head No. | MPT | FPT | Qty |
|---------|------------|-----|-----|-----|
| WHD6824 | 6824       | 1/8 | 1/8 | 3   |
| WHD6829 | 6829       | 1/4 | 1/4 | 3   |



### Truck Shut-Off: M to F Pipe

| IBS No. | W'Head No. | MPT | FPT | Qty |
|---------|------------|-----|-----|-----|
| W20332  | W20332     | 1/4 | 1/4 | 3   |



*Valve is designed to hold air pressure of 125 psi with one 1/4" bubble in 5 seconds permissible to key leakage*

### Marine Shut-Off: M to F Pipe

| IBS No. | W'Head No. | MPT | FPT | Qty |
|---------|------------|-----|-----|-----|
| 6828    | 6828       | 1/4 | 1/4 | 3   |



*UL listed for marine fuel*

### Female Pipe Shut-Off

| IBS No. | W'Head No. | FPT | Qty |
|---------|------------|-----|-----|
| 6809    | 6809       | 1/4 | 3   |



FITTINGS



### Needle Valve

- Use with instrumentation hydraulic and pneumatic systems.
- Maximum pressure — 150 psi.
- Metal to metal seat with fine thread screw down enabling valve to seat positively, adjust easily, and hold to any amount of flow up to the capacity of the valve.



| IBS No. | W'Head No. | MPT | Qty |
|---------|------------|-----|-----|
| 6810    | 6810       | 1/8 | 3   |

## Draincocks & Valves Assortment (Z02)

IBS No. 121R • 20 Items • 34 Pcs

Packaged in a locking steel drawer for easy storage & organization

|  <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/> INDUSTRIALBOLT.COM © © © 800-678-1906</small> |  |  |  | <b>Brass Draincocks &amp; Shut-Off Valves</b>  |  |
|---|--|--|--|--|--|
| <small>Assortment No. 121R</small>  |  |  |  |  |  |
| <b>WHD135</b><br>1/8 BRASS EXT. SEAT DRAIN COCK<br>  | <b>WHD145</b><br>1/4 BRASS EXT. SEAT DRAIN COCK<br>     | <b>WHD270</b><br>3/8 BRASS EXT. SEAT DRAIN COCK<br>     | <b>WHD130</b><br>1/8 BRASS INT. SEAT DRAIN COCK<br>    | <b>WHD108</b><br>1/2 BRASS EXT. SEAT DRAIN COCK<br> |  |
| <b>WHD-1424</b><br>1/8 INT. SEAT DRAIN VALVE BRASS<br>  | <b>WHD-1425</b><br>1/4 INT. SEAT DRAIN VALVE BRASS<br> | <b>WHD-1426</b><br>3/8 INT. SEAT DRAIN VALVE BRASS<br> | <b>6809</b><br>1/4 FE BRASS PIPE SHUT OFF<br>         | <b>WHD1423</b><br>5/8 X 3/8 PIPE TO HOSE SHUT<br>  |  |
| <b>WHD6824</b><br>1/8 X 1/8 M. TO F. SHUT OFF<br>  | <b>6828</b><br>1/4 X 1/4 MARINE SHUT OFF<br>          | <b>WHD150</b><br>1/8 BRASS ANGLE BIB DRAIN COCK<br>   | <b>WHD6660</b><br>1/4 BRASS ANGLE BIB DRAIN COCK<br> | <b>229KF</b><br>SHUT OFF<br>                      |  |
| <b>WHD-1421</b><br>1/4 BRASS AIR TANK VALVE<br>  | <b>WHD6829</b><br>1/4 X 1/4 M TO F SHUT OFF<br>       | <b>WHD-6892</b><br>1/4 BRASS GROUND PLUG<br>          | <b>WHD-6893</b><br>3/8 BRASS GROUND PLUG<br>         | <b>WHD1422</b><br>3/8 X 3/8 PIPE TO HOSE SHUT<br> |  |

FITTINGS

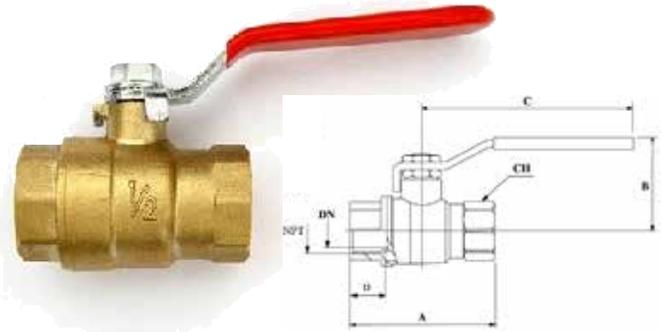


# IBS, INCORPORATED

## Drain Cocks & Valves O05

### Full Bore Brass Ball Valves

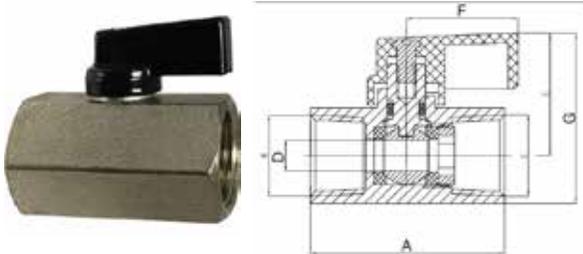
- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600 psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Low operating torque.
- Flow can go both directions.
- Adjustable stem packing gland.
- Maximum operating temperature: 248°F (120°C) at 600 PSI
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested.
- Forged Brass — for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem.
- Deeper threads — for better connections.
- Reversible Handles.



| IBS No.        | Size  | Dimension Inches |      |      |      |     |      |
|----------------|-------|------------------|------|------|------|-----|------|
|                | NPT   | DN               | A    | B    | C    | D   | CH   |
| <b>BV400B</b>  | 1/4   | .39              | 1.96 | 1.57 | 3.43 | .43 | .75  |
| <b>BV600B</b>  | 3/8   | .39              | 1.96 | 1.54 | 3.31 | .43 | .86  |
| <b>BV800B</b>  | 1/2   | .57              | 2.09 | 1.64 | 3.35 | .46 | .98  |
| <b>BV1200B</b> | 3/4   | .75              | 2.80 | 1.79 | 3.80 | .49 | 1.22 |
| <b>BV1600B</b> | 1     | .94              | 3.23 | 2.13 | 3.80 | .59 | 1.50 |
| <b>BV2000B</b> | 1-1/4 | 1.24             | 3.70 | 2.32 | 4.72 | .62 | 1.85 |
| <b>BV2400B</b> | 1-1/2 | 1.49             | 4.13 | 2.60 | 4.72 | .64 | 2.13 |
| <b>BV3200B</b> | 2     | 1.96             | 5.94 | 3.27 | 6.38 | .65 | 2.64 |

FITTINGS

### Mini Ball Valves

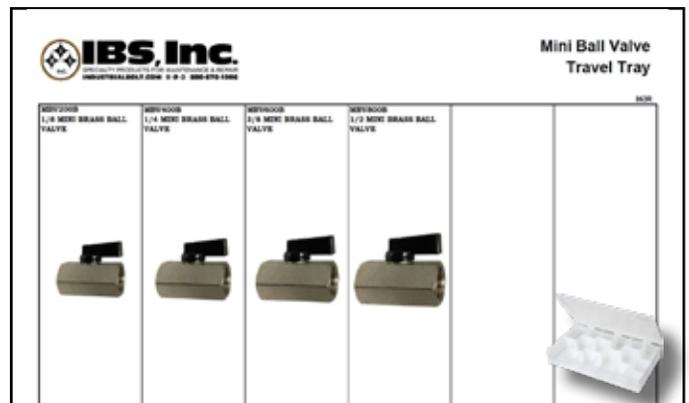


| IBS No.        | Size | Dimension Inches |          |     |      |
|----------------|------|------------------|----------|-----|------|
|                | NPT  | A                | D (Flow) | F   | G    |
| <b>MBV200B</b> | 1/8  | 1.57             | .24      | .93 | 1.46 |
| <b>MBV400B</b> | 1/4  | 1.57             | .31      | .93 | 1.46 |
| <b>MBV600B</b> | 3/8  | 1.57             | .28      | .93 | 1.46 |
| <b>MBV800B</b> | 1/2  | 1.57             | .35      | .93 | 1.56 |

- **CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases.
- Working pressure rated at 450 psi (31 bars).
- At 212°F - 355 psi (24.5 bars)
- At 356°F - 142 psi (9.8 bars).
- 1/4 turn Alumzinc handle.
- Flow can go both directions.
- Max operating temperature: 176°F (80°C)
- Min operating temperature: 32°F (0°C)
- Chrome Plated Forged Brass — for more strength and longevity.
- Threaded ends to ANSI B1.20.1

### Mini Ball Valve Travel Tray

IBS No. 863R • 4 Items • 10 Pcs



# IBS, INCORPORATED

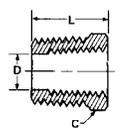
## High Press. St. Pipe Fittings O14



### High Pressure Steel Pipe Fittings

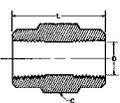
- **Operating pressure up to 3,000 psi** depending on pipe size.
- **Temperature range** -65°F to +400°F.
- **Precision machined from AISI 12L14 Carbon Steel.**
  - Shaped fittings (elbows, tees, etc.) are made from hi-density forgings.
  - Straight fittings are made from bar stock.
- **Zinc plated.**
- **Use with brass, bronze and iron pipe.**
- **Application — grease, instrumentation and most hydraulic systems.**
- **Features dry-seal pipe threads and compact size.**

### Bushings



| IBS No. | MPT | FPT | Hex   | D    | L    | Pkg Qty |
|---------|-----|-----|-------|------|------|---------|
| 15074   | 1/4 | 1/8 | 5/8   | .332 | .85  | 10      |
| 15075   | 3/8 | 1/8 | 3/4   | .332 | .85  | 10      |
| 15076   | 3/8 | 1/4 | 3/4   | .438 | .85  | 10      |
| 15078   | 1/2 | 1/4 | 7/8   | .438 | 1.10 | 5       |
| 15079   | 1/2 | 3/8 | 7/8   | .578 | 1.10 | 5       |
| 15082   | 3/4 | 3/8 | 1-1/8 | .578 | 1.17 | 5       |
| 15083   | 3/4 | 1/2 | 1-1/8 | .703 | 1.17 | 5       |
| 15086   | 1   | 1/2 | 1-3/8 | .703 | 1.36 | 5       |
| 15087   | 1   | 3/4 | 1-3/8 | .922 | 1.36 | 5       |

### Couplings

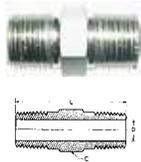


| IBS No.  | FPT | Hex   | D     | L    | Qty |
|----------|-----|-------|-------|------|-----|
| C3309X2  | 1/8 | 5/8   | .343  | .75  | 5   |
| C3309X4  | 1/4 | 3/4   | .437  | 1.13 | 5   |
| C3309X6  | 3/8 | 7/8   | .562  | 1.13 | 5   |
| C3309X8  | 1/2 | 1-1/8 | .687  | 1.50 | 5   |
| C3309X12 | 3/4 | 1-3/8 | .906  | 1.53 | 5   |
| C3309X16 | 1   | 1-5/8 | 1.125 | 1.89 | 5   |

### Assembly Instructions

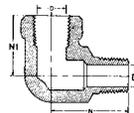
1. Tighten approximately 2-1/2 turns past hand tight.
2. Welding procedure: Use electric weld rod. Recommended procedure specifies using lower amperage than usual and puddling of molten metal to permit gasses created by lead in steel to work through molten lead deposit.

### Hex Nipples



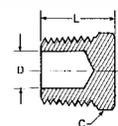
| IBS No.  | MPT | Hex   | D    | L    | Qty |
|----------|-----|-------|------|------|-----|
| C3069X2  | 1/8 | 7/16  | .188 | .75  | 10  |
| C3069X4  | 1/4 | 5/8   | .281 | 1.13 | 10  |
| C3069X6  | 3/8 | 3/4   | .406 | 1.13 | 10  |
| C3069X8  | 1/2 | 7/8   | .531 | 1.50 | 5   |
| C3069X12 | 3/4 | 1-1/8 | .719 | 1.53 | 5   |
| C3069X16 | 1   | 1-3/8 | .938 | 1.89 | 5   |

### 90° Street Elbow



| IBS No.  | MPT | FPT | Hex    | Qty |
|----------|-----|-----|--------|-----|
| C3409X2  | 1/8 | 1/8 | 9/16   | 5   |
| C3409X4  | 1/4 | 1/4 | 3/4    | 5   |
| C3409X6  | 3/8 | 3/8 | 7/8    | 5   |
| C3409X8  | 1/2 | 1/2 | 1-1/16 | 5   |
| C3409X12 | 3/4 | 3/4 | 1-5/16 | 5   |
| C3409X16 | 1   | 1   | 1-5/8  | 5   |

### Hex Head Plugs



| IBS No. | MPT | Hex   | L    | Pkg Qty |
|---------|-----|-------|------|---------|
| 15018   | 1/8 | 7/16  | .56  | 10      |
| 15019   | 1/4 | 9/16  | .66  | 10      |
| 15020   | 3/8 | 11/16 | .78  | 10      |
| 15021   | 1/2 | 7/8   | .98  | 5       |
| 15022   | 3/4 | 1-1/8 | 1.06 | 5       |
| 15023   | 1   | 1-3/8 | 1.25 | 5       |

FITTINGS



# IBS, INCORPORATED

## Steel SAE 37° (JIC) Flared Fittings O15

### SAE 37° (JIC) Steel Flared Fittings

- **Operating pressure up to 10,000 psi** depending on tube and fitting size.
- **Temperature range** -65°F to +400°F.
- **Zinc Plated.**
- **Interchangeable** with all sources.
- **Good Resistance to vibration**, but decreases with increase in tube size. Two piece design recommended when greater resistance to vibration is required.
- **Use with** copper, brass, steel aluminum and other tubing that can be flared.
- **Use in** hydraulic, instrumentation and chemical processing systems.
- **Meets specification 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 of nut must face toward the fitting body.
3. Flare end of tubing with 37° flaring tool.
  - A) Check 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.
5. Tighten assembly with wrench until solid feeling is encountered. From that point, apply one-sixth turn

### JIC Plugs



| IBS No.  | Tube  | Hex     | L    | Qty |
|----------|-------|---------|------|-----|
| C5229X4  | 1/4   | 1/2     | .80  | 5   |
| C5229X5  | 5/16  | 9/16    | .80  | 5   |
| C5229X6  | 3/8   | 5/8     | .84  | 5   |
| C5229X8  | 1/2   | 13/16   | .94  | 5   |
| C5229X10 | 5/8   | 15/16   | 1.10 | 5   |
| C5229X12 | 3/4   | 1-1/8   | 1.28 | 5   |
| C5229X16 | 1     | 1-3/8   | 1.33 | 1   |
| C5229X20 | 1-1/4 | 1-11/16 | 1.45 | 1   |
| C5229X24 | 1-1/2 | 2       | 1.65 | 1   |

### JIC Caps



| IBS No.  | Tube  | Hex   | L    | Qty |
|----------|-------|-------|------|-----|
| C5129X2  | 1/8   | 3/8   | .50  | 5   |
| C5129X3  | 3/16  | 7/16  | .56  | 5   |
| C5129X4  | 1/4   | 9/16  | .59  | 5   |
| C5129X5  | 5/16  | 5/8   | .61  | 5   |
| C5129X6  | 3/8   | 11/16 | .62  | 5   |
| C5129X8  | 1/2   | 7/8   | .75  | 5   |
| C5129X10 | 5/8   | 1     | .84  | 1   |
| C5129X12 | 3/4   | 1-1/4 | .91  | 1   |
| C5129X14 | 7/8   | 1-3/8 | .99  | 1   |
| C5129X16 | 1     | 1-1/2 | 1.02 | 1   |
| C5129X20 | 1-1/4 | 2     | 1.06 | 1   |
| C5129X24 | 1-1/2 | 2-1/4 | 1.19 | 1   |

### JIC 90° Male Elbows



| IBS No.     | Tube   | MPT    | Hex    | Qty |
|-------------|--------|--------|--------|-----|
| C5405X2     | 1/8    | 1/8    | 7/16   | 5   |
| C5405X3     | 3/16   | 1/8    | 7/16   | 5   |
| C5405X4     | 1/4    | 1/8    | 7/16   | 5   |
| C5405X4X4   | 1/4    | 1/4    | 9/16   | 5   |
| C5405X5     | 5/16   | 1/8    | 1/2    | 5   |
| C5405X5X4   | 5/16   | 1/4    | 9/16   | 5   |
| C5405X6X2   | 3/8    | 1/8    | 9/16   | 5   |
| C5405X6     | 3/8    | 1/4    | 9/16   | 5   |
| C5405X6X6   | 3/8    | 3/8    | 3/4    | 5   |
| C5405X6X8   | 3/8    | 1/2    | 7/8    | 5   |
| C5405X8X4   | 1/2    | 1/4    | 3/4    | 3   |
| C5405X8     | 1/2    | 3/8    | 3/4    | 3   |
| C5405X8X8   | 1/2    | 1/2    | 7/8    | 3   |
| C5405X8X12  | 1/2    | 3/4    | 1-1/16 | 3   |
| C5405X10X6  | 5/8    | 3/8    | 7/8    | 3   |
| C5405X10    | 5/8    | 1/2    | 7/8    | 3   |
| C5405X10X12 | 5/8    | 3/4    | 1-1/16 | 1   |
| C5405X12X8  | 3/4    | 1/2    | 1-1/16 | 1   |
| C5405X12    | 3/4    | 3/4    | 1-1/16 | 1   |
| C5405X14    | 7/8    | 3/4    | 1-5/16 | 1   |
| C5405X16X12 | 1      | 3/4    | 1-5/16 | 1   |
| C5405X16    | 1      | 1      | 1-5/16 | 1   |
| C5405X20X16 | 1-1/16 | 1      | 1-5/8  | 1   |
| C5405X20    | 1-1/16 | 1-1/16 | 1-5/8  | 1   |
| C5405X24    | 1-1/2  | 1-1/2  | 1-7/8  | 1   |

FITTINGS

# IBS, INCORPORATED

## Steel SAE 37° (JIC) Flared Fittings O15



### JIC Male Connectors



| IBS No.     | Tube  | MPT   | Hex     | L    | Qty |
|-------------|-------|-------|---------|------|-----|
| C5205X2     | 1/8   | 1/8   | 7/16    | 1.11 | 5   |
| C5205X3     | 3/16  | 1/8   | 7/16    | 1.14 | 5   |
| C5205X4     | 1/4   | 1/8   | 1/2     | 1.22 | 5   |
| C5205X4X4   | 1/4   | 1/4   | 9/16    | 1.42 | 5   |
| C5205X4X6   | 1/4   | 3/8   | 3/4     | 1.68 | 5   |
| C5205X4X8   | 1/4   | 1/2   | 7/8     | 1.68 | 5   |
| C5205X5     | 5/16  | 1/8   | 9/16    | 1.22 | 5   |
| C5205X5X4   | 5/16  | 1/4   | 9/16    | 1.42 | 5   |
| C5205X5X6   | 5/16  | 3/8   | 3/4     | 1.42 | 5   |
| C5205X6X2   | 3/8   | 1/8   | 5/8     | 1.24 | 5   |
| C5205X6     | 3/8   | 1/4   | 5/8     | 1.43 | 5   |
| C5205X6X6   | 3/8   | 3/8   | 3/4     | 1.43 | 5   |
| C5205X6X8   | 3/8   | 1/2   | 7/8     | 1.69 | 5   |
| C5205X8X4   | 1/2   | 1/4   | 13/16   | 1.53 | 3   |
| C5205X8     | 1/2   | 3/8   | 13/16   | 1.53 | 3   |
| C5205X8X8   | 1/2   | 1/2   | 15/16   | 1.79 | 3   |
| C5205X8X12  | 1/2   | 3/4   | 1-1/8   | 1.85 | 3   |
| C5205X10X6  | 5/8   | 3/8   | 15/16   | 1.70 | 3   |
| C5205X10    | 5/8   | 1/2   | 15/16   | 1.89 | 3   |
| C5205X10X12 | 5/8   | 3/4   | 1-1/8   | 1.95 | 1   |
| C5205X12    | 3/4   | 3/4   | 1-1/8   | 2.06 | 1   |
| C5205X12X16 | 3/4   | 1     | 1-3/8   | 2.25 | 1   |
| C5205X14    | 7/8   | 3/4   | 1-1/4   | 2.09 | 1   |
| C5205X16X12 | 1     | 3/4   | 1-3/8   | 2.11 | 1   |
| C5205X16    | 1     | 1     | 1-3/8   | 2.30 | 1   |
| C5205X20X16 | 1-1/4 | 1     | 1-11/16 | 2.42 | 1   |
| C5205X20    | 1-1/4 | 1-1/4 | 1-11/16 | 2.45 | 1   |
| C5205X24X20 | 1-1/2 | 1-1/4 | 2       | 2.65 | 1   |
| C5205X24    | 1-1/2 | 1-1/2 | 2       | 2.68 | 1   |

### JIC 45° Male Elbows



| IBS No.    | Tube  | MPT   | Hex    | Qty |
|------------|-------|-------|--------|-----|
| C5355X2    | 1/8   | 1/8   | 7/16   | 5   |
| C5355X3    | 3/16  | 1/8   | 7/16   | 5   |
| C5355X4    | 1/4   | 1/8   | 7/16   | 5   |
| C5355X4X4  | 1/4   | 1/4   | 9/16   | 5   |
| C5355X5    | 5/16  | 1/8   | 1/2    | 5   |
| C5355X5X4  | 5/16  | 1/4   | 9/16   | 5   |
| C5355X6X2  | 3/8   | 1/8   | 9/16   | 5   |
| C5355X6    | 3/8   | 1/4   | 9/16   | 5   |
| C5355X6X6  | 3/8   | 3/8   | 3/4    | 5   |
| C5355X6X8  | 3/8   | 1/2   | 7/8    | 5   |
| C5355X8X4  | 1/2   | 1/4   | 3/4    | 3   |
| C5355X8    | 1/2   | 3/8   | 7/8    | 3   |
| C5355X8X8  | 1/2   | 1/2   | 7/8    | 3   |
| C5355X10X6 | 5/8   | 3/8   | 7/8    | 3   |
| C5355X10   | 5/8   | 1/2   | 7/8    | 3   |
| C5355X12X8 | 3/4   | 1/2   | 1-1/16 | 1   |
| C5355X12   | 3/4   | 3/4   | 1-1/16 | 1   |
| C5355X14   | 7/8   | 3/4   | 1-1/16 | 1   |
| C5355X16X2 | 1     | 3/4   | 1-5/16 | 1   |
| C5355X16   | 1     | 1     | 1-5/16 | 1   |
| C5355X20   | 1-1/4 | 1-1/4 | 1-5/8  | 1   |
| C5355X24   | 1-1/2 | 1-1/2 | 1-7/8  | 1   |

FITTINGS

### JIC Swivel Nut Elbows



| IBS No.  | JIC TUBE | JIC TUBE | Qty |
|----------|----------|----------|-----|
| C5506X4  | 1/4      | 1/4      | 5   |
| C5506X6  | 3/8      | 3/8      | 5   |
| C5506X8  | 1/2      | 1/2      | 5   |
| C5506X12 | 3/4      | 3/4      | 5   |
| C5506X16 | 1        | 1        | 5   |
| C5506X20 | 1-1/4    | 1-1/4    | 5   |



# IBS, INCORPORATED

## Steel SAE 37° (JIC) Flared Fittings O15

FITTINGS

### JIC Hex Union



| IBS No.  | Tube  | Hex     | D     | L    | Qty |
|----------|-------|---------|-------|------|-----|
| C5305X2  | 1/8   | 7/16    | .062  | 1.17 | 5   |
| C5305X3  | 3/16  | 7/16    | .125  | 1.23 | 5   |
| C5305X4  | 1/4   | 1/2     | .172  | 1.37 | 5   |
| C5305X5  | 5/16  | 9/16    | .234  | 1.37 | 5   |
| C5305X6  | 3/8   | 5/8     | .297  | 1.41 | 5   |
| C5305X8  | 1/2   | 13/16   | .391  | 1.62 | 3   |
| C5305X10 | 5/8   | 15/16   | .484  | 1.88 | 3   |
| C5305X12 | 3/4   | 1-1/8   | .609  | 2.16 | 1   |
| C5305X14 | 7/8   | 1-1/4   | .718  | 2.21 | 1   |
| C5305X16 | 1     | 1-3/8   | .844  | 2.25 | 1   |
| C5305X20 | 1-1/4 | 1-11/16 | 1.078 | 2.43 | 1   |
| C5305X24 | 1-1/2 | 2       | 1.312 | 2.75 | 1   |

### JIC Union Tees



| IBS No.  | JIC TUBE | Qty |
|----------|----------|-----|
| C5705X3  | 3/16     | 1   |
| C5705X4  | 1/4      | 1   |
| C5705X6  | 3/8      | 1   |
| C5705X8  | 1/2      | 1   |
| C5705X10 | 5/8      | 1   |
| C5705X12 | 3/4      | 1   |
| C5705X16 | 1        | 1   |

### JIC 90° Union Elbow



| IBS No.  | JIC TUBE | Qty |
|----------|----------|-----|
| C5505X4  | 1/4      | 1   |
| C5505X6  | 3/8      | 1   |
| C5505X8  | 1/2      | 1   |
| C5505X10 | 5/8      | 1   |
| C5505X12 | 3/4      | 1   |
| C5505X16 | 1        | 1   |
| C5505X20 | 1-1/4    | 1   |

### JIC Female Connectors



| IBS No. | JIC TUBE | FPT | Qty |
|---------|----------|-----|-----|
| C5255X4 | 1/4      | 1/4 | 5   |
| C5255X6 | 3/8      | 3/8 | 5   |
| C5255X8 | 1/2      | 1/2 | 5   |

### JIC Male to Male Boss O-Ring



| IBS No.     | JIC TUBE | O-RING TUBE | Qty |
|-------------|----------|-------------|-----|
| C5315X4     | 1/4      | 1/4         | 5   |
| C5315X4X6   | 1/4      | 3/8         | 5   |
| C5315X6     | 3/8      | 3/8         | 5   |
| C5315X6X4   | 3/8      | 1/4         | 5   |
| C5315X6X8   | 3/8      | 1/2         | 5   |
| C5315X8     | 1/2      | 1/2         | 5   |
| C5315X8X6   | 1/2      | 3/8         | 5   |
| C5315X8X12  | 1/2      | 3/4         | 5   |
| C5315X12    | 3/4      | 3/4         | 5   |
| C5315X12X8  | 3/4      | 1/2         | 5   |
| C5315X16    | 1        | 1           | 3   |
| C5315X16X20 | 1        | 1-1/4       | 3   |
| C5315X16X24 | 1        | 1-1/2       | 3   |

### Male O-Ring Swivel Adapter



| IBS No. | O-RING TUBE | FEMALE NSPM | Qty |
|---------|-------------|-------------|-----|
| 9315X4  | 1/4         | 1/4         | 1   |
| 9315X6  | 3/8         | 3/8         | 1   |
| 9315X8  | 1/2         | 1/2         | 1   |
| 9315X12 | 3/4         | 3/4         | 1   |
| 9315X16 | 1           | 1           | 1   |

### Male For-Seal to Straight Thread O-Ring Connectors



| IBS No. | For-Seal | O-Ring | Qty |
|---------|----------|--------|-----|
| 4315X4  | 1/4      | 1/4    | 1   |
| 4315X6  | 3/8      | 3/8    | 1   |
| 4315X8  | 1/2      | 1/2    | 1   |
| 4315X10 | 5/8      | 5/8    | 1   |
| 4365X12 | 3/4      | 3/4    | 1   |



### Boss O-Ring 37° JIC Swivel Adapter



| IBS No. | O-RING TUBE | FEMALE NSPM | Qty |
|---------|-------------|-------------|-----|
| 9316X4  | 1/4         | 1/4         | 1   |
| 9316X6  | 3/8         | 3/8         | 1   |
| 9316X8  | 1/2         | 1/2         | 1   |
| 9316X10 | 3/4         | 3/4         | 1   |
| 9316X12 | 5/16        | 5/16        | 1   |

### 90° For-Seal to Straight Thread O-Ring Connectors



| IBS No. | For-Seal | O-Ring | Qty |
|---------|----------|--------|-----|
| 4515X4  | 1/4      | 1/4    | 1   |
| 4515X6  | 3/8      | 3/8    | 1   |
| 4515X8  | 1/2      | 1/2    | 1   |
| 4515X10 | 5/8      | 5/8    | 1   |
| 4515X12 | 3/4      | 3/4    | 1   |
| 4515X16 | 1        | 1      | 1   |

### Male JIC to Female Flat Face Swivel Adapter



| IBS No. | JIC TUBE | FACE SEAL | Qty |
|---------|----------|-----------|-----|
| 4213X4  | 1/4      | 1/4       | 1   |
| 4213X6  | 3/8      | 3/8       | 1   |
| 4213X8  | 1/2      | 1/2       | 1   |
| 4213X10 | 5/8      | 5/8       | 1   |
| 4213X16 | 1        | 1         | 1   |

### Steel Pipe Caps



| IBS No. | Size | Pkg Qty |
|---------|------|---------|
| 15053   | 1/8  | 5       |
| 15054   | 1/4  | 5       |
| 15055   | 3/8  | 5       |
| 15056   | 1/2  | 5       |
| 15057   | 3/4  | 5       |
| 15057A  | 1    | 5       |

FITTINGS

### JIC to O-Ring 45° Elbows



| IBS No.  | JIC TUBE | O-RING TUBE | Qty |
|----------|----------|-------------|-----|
| C5365X4  | 1/4      | 1/4         | 1   |
| C5365X6  | 3/8      | 3/8         | 1   |
| C5365X8  | 1/2      | 1/2         | 1   |
| C5365X10 | 5/8      | 5/8         | 1   |
| C5365X12 | 3/4      | 3/4         | 1   |
| C5365X16 | 1        | 1           | 1   |

### Steel 90° Male Elbows



| IBS No.  | MPT 1 | MPT 2 | Qty |
|----------|-------|-------|-----|
| C3529X4  | 1/4   | 1/4   | 5   |
| C3529X6  | 3/8   | 3/8   | 5   |
| C3529X8  | 1/2   | 1/2   | 5   |
| C3529X12 | 3/4   | 3/4   | 5   |
| C3529X16 | 1     | 1     | 5   |

### 45° For-Seal to Straight Thread O-Ring Connectors



| IBS No. | For-Seal | O-Ring | Qty |
|---------|----------|--------|-----|
| 4365X4  | 1/4      | 1/4    | 1   |
| 4365X6  | 3/8      | 3/8    | 1   |
| 4365X8  | 1/2      | 1/2    | 1   |
| 4365X10 | 5/8      | 5/8    | 1   |
| 4365X12 | 3/4      | 3/4    | 1   |
| 4365X16 | 1        | 1      | 1   |



# IBS, INCORPORATED

## Assortments Z02

FITTINGS

| IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR INDUSTRIALBOLT.COM 800-678-1506 |                             |                               |  |  | JIC Fitting Adapters |
|---|-----------------------------|-------------------------------|--|--|----------------------|
|   |                             |                               |  |  | Assortment No. 738R  |
| C5229X4<br>1/4 JIC PLUG<br>   | C5129X4<br>1/4 JIC CAP<br>  | C5305X4<br>1/4 JIC UNION<br>  | C5205X4<br>1/4 X 1/8 JIC M. CONN<br>   | C5205X8<br>1/2 X 3/8 JIC M. CONN<br>   |                      |
| C5229X6<br>3/8 JIC PLUG<br>   | C5129X6<br>3/8 JIC CAP<br>  | C5305X6<br>3/8 JIC UNION<br>  | C5205X4X4<br>1/4 X 1/4 JIC M. CONN<br> | C5205X8X8<br>1/2 X 1/2 JIC M. CONN<br> |                      |
| C5229X8<br>1/2 JIC PLUG<br>   | C5129X8<br>1/2 JIC CAP<br>  | C5305X8<br>1/2 JIC UNION<br>  | C5205X6<br>3/8 X 1/4 JIC M. CONN<br>   |  |                      |
| C5229X12<br>3/4 JIC PLUG<br>  | C5129X12<br>3/4 JIC CAP<br> | C5305X12<br>3/4 JIC UNION<br> | C5205X6X6<br>3/8 X 3/8 JIC M. CONN<br> |  |                      |

## JIC Fitting Adapters Assortment

IBS No. 738R

18 Items • 66 Pcs

Packaged in a locking steel drawer for easy storage & organization



| IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR INDUSTRIALBOLT.COM 800-678-1506 |  |  |   |  | SAE 37° JIC Flare 90° Elbows |
|---|--|--|---|--|------------------------------|
|   |  |  |   |  | Assortment No. 846R          |
| C5405X4<br>1/4 X 1/8 JIC 90DGR M ELBOW<br>  | C5405X4X4<br>1/4 X 1/4 JIC 90DGR M ELBOW<br> | C5405X5<br>5/16 X 1/8 JIC 90DGR M ELBOW<br>  | C5405X5X4<br>5/16 X 1/4 JIC 90DGR M ELBOW<br> |  |                              |
| C5405X6X2<br>3/8 X 1/8 JIC 90DGR M ELBOW<br>  | C5405X6<br>3/8 X 1/4 JIC 90DGR M ELBOW<br>   | C5405X6X6<br>3/8 X 3/8 JIC 90DGR M ELBOW<br> |   |  |                              |
| C5405X8X4<br>1/2 X 1/4 JIC 90DGR M ELBOW<br>  | C5405X8<br>1/2 X 3/8 JIC 90DGR M ELBOW<br>   | C5405X8X8<br>1/2 X 1/2 JIC 90DGR M ELBOW<br> |   |  |                              |
| C5405X10X6<br>5/8 X 3/8 JIC 90DGR M ELBOW<br>   | C5405X10<br>5/8 X 1/2 JIC 90DGR M ELBOW<br>  | C5405X12<br>3/4 X 3/4 JIC 90DGR M ELBOW<br>  |   |  |                              |

## SAE 37° JIC Flare 90° Elbows Assortment

IBS No. 846R

13 Items • 23 Pcs

Packaged in a locking steel drawer for easy storage & organization



| IBS, Inc. SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR INDUSTRIALBOLT.COM 800-678-1506 |  |  |   |   | For-Seal to Straight-Thread O-Ring Fittings |
|---|--|--|---|---|---|
|   |  |  |   |   | Assortment No. 847R                         |
| 4315X4<br>1/4 X 1/4 MALE FACE SEAL TO STRAIGHT THREAD O-RING CONNECTOR<br>            | 4315X6<br>3/8 X 3/8 MALE FACE SEAL TO STRAIGHT THREAD O-RING CONNECTOR<br> | 4315X8<br>1/2 X 1/2 MALE FACE SEAL TO STRAIGHT THREAD O-RING CONNECTOR<br> | 4315X10<br>3/4 X 3/4 MALE FACE SEAL TO STRAIGHT THREAD O-RING CONNECTOR<br> | 4315X12<br>5/8 X 5/8 MALE FACE SEAL TO STRAIGHT THREAD O-RING CONNECTOR<br> |   |
| 4365X4<br>1/4 45DGR FOR SEAL TO STRT THREAD O-RING CONN<br>                           | 4365X6<br>3/8 45DGR FOR SEAL TO STRT THREAD O-RING CONN<br>                | 4365X8<br>1/2 45DGR FOR SEAL TO STRT THREAD O-RING CONN<br>                | 4365X10<br>3/4 45DGR FOR SEAL TO STRT THREAD O-RING CONN<br>                | 4365X12<br>5/8 45DGR FOR SEAL TO STRT THREAD O-RING CONN<br>                |   |
| 4515X4<br>1/4 X 1/4 90DGR FOR SEAL TO STRAIGHT THREAD O-RING CONN<br>                 | 4515X6<br>3/8 X 3/8 90DGR FOR SEAL TO STRAIGHT THREAD O-RING CONN<br>      | 4515X8<br>1/2 X 1/2 90DGR FOR SEAL TO STRAIGHT THREAD O-RING CONN<br>      | 4515X10<br>3/4 X 3/4 90DGR FOR SEAL TO STRAIGHT THREAD O-RING CONN<br>      | 4515X12<br>5/8 X 5/8 90DGR FOR SEAL TO STRAIGHT THREAD O-RING CONN<br>      |   |

## For-Seal to Straight Thread O-Ring Fittings Assortment

IBS No. 847R

15 Items • 22 Pcs

Packaged in a locking steel drawer for easy storage & organization



# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15



### Male Pipe NPTF Rigid



| IBS No. | W'Head No. | A   | B    | C     | D      | Hose I.D. (in.) | Thread   | Pkg Qty |
|---------|------------|-----|------|-------|--------|-----------------|----------|---------|
| MP0402W | 04U-102    | 1/4 | 1.85 | .79   | 9/16   | 1/4             | 1/8-27   | 1       |
| MP0404W | 04U-104    | 1/4 | 2.03 | .97   | 9/16   | 1/4             | 1/4-18   | 1       |
| MP0406W | 04U-106    | 1/4 | 2.13 | 1.07  | 11/16  | 1/4             | 3/8-18   | 1       |
| MP0408W | 04U-108    | 1/4 | 2.31 | 1.255 | 7/8    | 1/4             | 1/2-14   | 1       |
| MP0604W | 06U-104    | 3/8 | 2.45 | 1.08  | 11/16  | 3/8             | 1/4-18   | 1       |
| MP0606W | 06U-106    | 3/8 | 2.22 | 0.99  | 3/4    | 3/8             | 3/8-18   | 1       |
| MP0608W | 06U-108    | 3/8 | 2.49 | 1.26  | 7/8    | 3/8             | 1/2-14   | 1       |
| MP0806W | 08U-106    | 1/2 | 2.39 | 1.08  | 7/8    | 1/2             | 3/8-18   | 1       |
| MP0808W | 08U-108    | 1/2 | 2.64 | 1.30  | 7/8    | 1/2             | 1/2-14   | 1       |
| MP0812W | 08U-112    | 1/2 | 2.71 | 1.37  | 1-1/16 | 1/2             | 3/4-14   | 1       |
| MP1212W | 12U-112    | 3/4 | 3.19 | 1.40  | 1-1/16 | 3/4             | 3/4-14   | 1       |
| MP1616W | 16U-116    | 1   | 3.73 | 1.62  | 1-3/8  | 1               | 1-11-1/2 | 1       |

### Male Pipe NPTF Swivel



| IBS No.  | W'Head No. | A   | B    | C    | D     | E     | Hose I.D. (in.) | Thread   | Pkg Qty |
|----------|------------|-----|------|------|-------|-------|-----------------|----------|---------|
| MPX0404W | 04U-J04    | 1/4 | 2.60 | 1.54 | 9/16  | 11/16 | 1/4             | 1/4-18   | 1       |
| MPX0406W | 04U-J06    | 1/4 | 2.60 | 1.54 | 9/16  | 3/4   | 1/4             | 3/8-18   | 1       |
| MPX0604W | 06U-J04    | 3/8 | 2.99 | 1.62 | 11/16 | 11/16 | 3/8             | 1/4-18   | 1       |
| MPX0606W | 06U-J06    | 3/8 | 2.99 | 1.62 | 11/16 | 3/4   | 3/8             | 3/8-18   | 1       |
| MPX0608W | 06U-J08    | 3/8 | 3.24 | 1.87 | 11/16 | 15/16 | 3/8             | 1/2-14   | 1       |
| MPX0808W | 08U-J08    | 1/2 | 3.27 | 1.93 | 7/8   | 7/8   | 1/2             | 1/2-14   | 1       |
| MPX1212W | 12U-J12    | 3/4 | 3.89 | 2.01 | 1-1/8 | 1-1/8 | 3/4             | 3/4-14   | 1       |
| MPX1616W | 16U-J16    | 1   | 4.40 | 2.27 | 1-3/8 | 1-1/2 | 1               | 1-11-1/2 | 1       |

FITTINGS

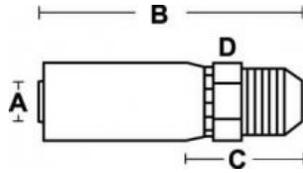


# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15

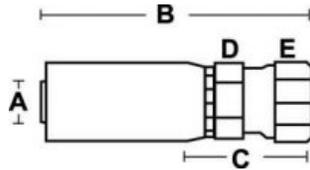
F I T T I N G S

### 37° JIC Male Pipe Rigid



| IBS No. | W'Head No. | A   | B    | C    | D     | Hose I.D. (in.) | Thread   | Pkg Qty |
|---------|------------|-----|------|------|-------|-----------------|----------|---------|
| MJ0404W | 04U-504    | 1/4 | 2.02 | .94  | 9/16  | 1/4             | 7/16-20  | 1       |
| MJ0406W | 04U-506    | 1/4 | 2.03 | .95  | 9/16  | 1/4             | 9/16-18  | 1       |
| MJ0606W | 06U-506    | 3/8 | 2.12 | .99  | 3/4   | 3/8             | 9/16-18  | 1       |
| MJ0608W | 06U-508    | 3/8 | 2.38 | 1.15 | 3/4   | 3/8             | 3/4-16   | 1       |
| MJ0806W | 08U-506    | 1/2 | 2.39 | 1.05 | 11/16 | 1/2             | 9/16-18  | 1       |
| MJ0808W | 08U-508    | 1/2 | 2.57 | 1.23 | 7/8   | 1/2             | 3/4-16   | 1       |
| MJ0810W | 08U-510    | 1/2 | 2.72 | 1.38 | 7/8   | 1/2             | 7/8-14   | 1       |
| MJ1010W | 10U-510    | 5/8 | 3.58 | 1.48 | 7/8   | 5/8             | 7/8-14   | 1       |
| MJ1212W | 12U-512    | 3/4 | 3.34 | 1.55 | 1-1/8 | 3/4             | 1-1/16-2 | 1       |
| MJ1616W | 16U-516    | 1   | 3.93 | 1.81 | 1-3/8 | 1               | 1-5/16-2 | 1       |

### 37° JIC Female Swivel



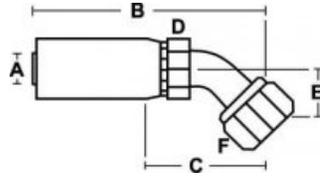
| IBS No.  | W'Head No. | A   | B    | C    | D      | E     | Hose I.D. (in.) | Thread    | Pkg Qty |
|----------|------------|-----|------|------|--------|-------|-----------------|-----------|---------|
| FJX0404W | 04U-604    | 1/4 | 2.08 | 1.02 | 9/16   | 9/16  | 1/4             | 7/16-20   | 1       |
| FJX0405W | 04U-605    | 1/4 | 2.22 | 1.16 | 9/16   | 5/8   | 1/4             | 1/2-20    | 1       |
| FJX0406W | 04U-606    | 1/4 | 2.17 | 1.09 | 9/16   | 11/16 | 1/4             | 9/16-18   | 1       |
| FJX0604W | 06U-604    | 3/8 | 2.41 | 1.04 | 11/16  | 9/16  | 3/8             | 7/16-20   | 1       |
| FJX0606W | 06U-606    | 3/8 | 2.50 | 0.72 | 3/4    | 3/4   | 3/8             | 9/16-18   | 1       |
| FJX0608W | 06U-608    | 3/8 | 2.47 | 1.24 | 3/4    | 7/8   | 3/8             | 3/4-16    | 1       |
| FJX0806W | 08U-606    | 1/2 | 2.52 | 1.18 | 11/16  | 11/16 | 1/2             | 9/16-18   | 1       |
| FJX0808W | 08U-608    | 1/2 | 2.64 | 1.30 | 7/8    | 7/8   | 1/2             | 3/4-16    | 1       |
| FJX0810W | 08U-610    | 1/2 | 2.80 | 1.46 | 7/8    | 1     | 1/2             | 7/8-14    | 1       |
| FJX1010W | 10U-610    | 5/8 | 3.38 | 1.52 | 7/8    | 1     | 5/8             | 7/8-14    | 1       |
| FJX1212W | 12U-612    | 3/4 | 3.38 | 1.59 | 1-1/16 | 1-1/4 | 3/4             | 1-1/16-12 | 1       |
| FJX1616W | 16U-616    | 1   | 3.78 | 1.67 | 1-3/8  | 1-1/2 | 1               | 1-5/16-12 | 1       |

# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15

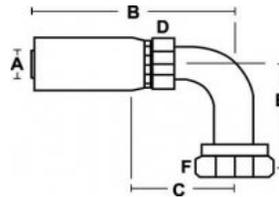


### 37° JIC Female 45° Bent Tube Swivel



| IBS No.    | W'Head No. | A   | B    | C    | D     | E    | F     | Hose I.D. (in.) | Thread    | Pkg Qty |
|------------|------------|-----|------|------|-------|------|-------|-----------------|-----------|---------|
| FJX450404W | 04U-684    | 1/4 | 2.86 | 1.80 | 9/16  | 0.39 | 9/16  | 1/4             | 7/16-20   | 1       |
| FJX450406W |            | 1/4 | 2.93 | 1.87 | 11/16 | 0.43 | 11/16 | 1/4             | 9/16-18   | 1       |
| FJX450606W | 06U-686    | 3/8 | 3.26 | 1.89 | 11/16 | 0.43 | 11/16 | 3/8             | 9/16-18   | 1       |
| FJX450608W | 06U-688    | 3/8 | 2.82 | 1.59 | 7/8   | 0.71 | 7/8   | 3/8             | 3/4-16    | 1       |
| FJX450806W | 08U-686    | 1/2 | 3.28 | 1.94 | 3/4   | 0.43 | 11/16 | 1/2             | 9/16-18   | 1       |
| FJX450808W | 08U-688    | 1/2 | 3.65 | 2.31 | 7/8   | 0.59 | 7/8   | 1/2             | 3/4-16    | 1       |
| FJX450810W | 08U-690    | 1/2 | 3.30 | 1.96 | 1     | 0.63 | 1     | 1/2             | 7/8-14    | 1       |
| FJX451010W | 10U-690    | 5/8 | 4.36 | 2.26 | 1     | 0.63 | 1     | 5/8             | 7/8-14    | 1       |
| FJX451212W | 12U-692    | 3/4 | 4.82 | 3.05 | 1-1/4 | 1.15 | 1-1/4 | 3/4             | 1-1/16-12 | 1       |
| FJX451616W | 16U-696    | 1   | 5.14 | 3.03 | 1-1/2 | 1.23 | 1-1/2 | 1.000           | 1-5/16-12 | 1       |

### 37° JIC Female 90° Bent Tube Swivel



| IBS No.    | W'Head No. | A   | B    | C    | D     | E    | F     | Hose I.D. (in.) | Thread    | Pkg Qty |
|------------|------------|-----|------|------|-------|------|-------|-----------------|-----------|---------|
| FJX900404W | 04U-664    | 1/4 | 2.70 | 1.64 | 9/16  | .83  | 9/16  | 1/4             | 7/16-20   | 1       |
| FJX900406W | 04U-666    | 1/4 | 2.84 | 1.78 | 11/16 | .91  | 11/16 | 1/4             | 9/16-18   | 1       |
| FJX900604W | 06U-664    | 3/8 | 3.03 | 1.66 | 9/16  | .83  | 9/16  | 3/8             | 7/16-20   | 1       |
| FJX900606W | 06U-666    | 3/8 | 3.17 | 1.80 | 11/16 | .91  | 11/16 | 3/8             | 9/16-18   | 1       |
| FJX900608W | 06U-668    | 3/8 | 3.42 | 2.04 | 7/8   | 1.12 | 7/8   | 3/8             | 3/4-16    | 1       |
| FJX900806W | 08U-666    | 1/2 | 3.19 | 1.85 | 7/8   | .91  | 11/16 | 1/2             | 9/16-18   | 1       |
| FJX900808W | 08U-668    | 1/2 | 3.49 | 2.15 | 1     | 1.13 | 7/8   | 1/2             | 3/4-16    | 1       |
| FJX900810W | 08U-670    | 1/2 | 2.29 | 1.65 | 1-1/4 | 1.23 | 1     | 1/2             | 7/8-14    | 1       |
| FJX901010W | 10U-670    | 5/8 | 3.82 | 1.72 | 2     | 1.23 | 1     | 5/8             | 7/8-14    | 1       |
| FJX901212W | 12U-672    | 3/4 | 4.51 | 2.73 | 2-1/4 | 2.57 | 1-1/4 | 3/4             | 1-1/16-12 | 1       |
| FJX901616W | 16U-676    | 1   | 5.16 | 3.05 | 2-7/8 | 2.80 | 1-1/2 | 1               | 1-5/16-12 | 1       |

FITTINGS

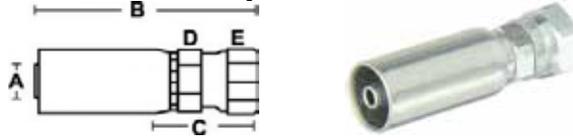


# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15

F I T T I N G S

### Female Pipe NPTF Swivel



| IBS No.  | W'Head No. | A   | B    | C    | D     | E     | Hose I.D. (in.) | Thread  | Pkg Qty |
|----------|------------|-----|------|------|-------|-------|-----------------|---------|---------|
| FPX0404W | 04U-054    | 1/4 | 1.90 | 1.00 | 9/16  | 3/4   | 1/4             | 1/4-18  | 1       |
| FPX0606W | 06U-056    | 3/8 | 2.06 | 1.00 | 11/16 | 7/8   | 3/8             | 3/8-18  | 1       |
| FPX0808W | 08U-058    | 1/2 | 2.16 | 1.10 | 7/8   | 1     | 1/2             | 1/2-14  | 1       |
| FPX1212W | 12U-062    | 3/4 | 2.34 | 1.11 | 7/8   | 1-1/4 | 3/4             | 3/4-14  | 1       |
| FPX1616W | 16U-676    | 1   | 3.42 | 1.61 | 1-3/8 | 1-1/2 | 1               | 1-11/12 | 1       |

### Male Boss O-Ring Rigid



| IBS No. | W'Head No. | A   | B    | C    | D      | Hose I.D. (in.) | Thread    | Pkg Qty |
|---------|------------|-----|------|------|--------|-----------------|-----------|---------|
| MB0404W | 04U-P04    | 1/4 | 1.83 | .74  | 5/8    | 1/4             | 7/16-20   | 1       |
| MB0406W | 04U-P06    | 1/4 | 1.95 | .89  | 11/16  | 1/4             | 9/16-18   | 1       |
| MB0606W | 06U-P06    | 3/8 | 2.12 | .89  | 11/16  | 3/8             | 9/16-18   | 1       |
| MB0608W | 06U-P08    | 3/8 | 2.17 | .94  | 7/8    | 3/8             | 3/4-16    | 1       |
| MB0808W | 08U-P08    | 1/2 | 2.35 | 1.01 | 7/8    | 1/2             | 3/4-16    | 1       |
| MB0810W | 08U-P10    | 1/2 | 2.48 | 1.14 | 1-1/16 | 1/2             | 7/8-14    | 1       |
| MB1010W | 10U-P10    | 5/8 | 3.31 | 1.21 | 1-1/16 | 5/8             | 7/8-14    | 1       |
| MB1212W | 12U-P12    | 3/4 | 2.05 | 1.26 | 1-1/4  | 3/4             | 1-1/16-12 | 1       |
| MB1616W | 16U-P16    | 1   | 3.38 | 1.27 | 1-1/2  | 1               | 1-5/16-12 | 1       |

### O-Ring Face Seal Female Swivel



| IBS No.  | W'Head No. | A   | B    | C    | D     | E     | Hose I.D. (in.) | Thread    | Pkg Qty |
|----------|------------|-----|------|------|-------|-------|-----------------|-----------|---------|
| FFX0404W | 04U-S64    | 1/4 | 2.18 | 1.10 | 9/16  | 11/16 | 1/4             | 9/16-18   | 1       |
| FFX0406W | 04U-S66    | 1/4 | 2.14 | 1.06 | 11/16 | 13/16 | 1/4             | 11/16-16  | 1       |
| FFX0606W | 06U-S66    | 3/8 | 2.43 | 1.20 | 11/16 | 13/16 | 3/8             | 11/16-16  | 1       |
| FFX0608W | 06U-S68    | 3/8 | 2.61 | 1.24 | 7/8   | 15/16 | 3/8             | 13/16-16  | 1       |
| FFX0808W | 08U-S68    | 1/2 | 2.77 | 1.43 | 7/8   | 15/16 | 1/2             | 13/16-16  | 1       |
| FFX0810W | 08U-S70    | 1/2 | 2.86 | 1.52 | 15/16 | 1-1/8 | 1/2             | 1-14      | 1       |
| FFX1010W | 10U-S70    | 5/8 | 3.44 | 1.58 | 1-1/8 | 1-1/8 | 5/8             | 1-14      | 1       |
| FFX1212W | 12U-S72    | 3/4 | 3.64 | 1.85 | 1-1/8 | 1-3/8 | 3/4             | 1-3/16-12 | 1       |
| FFX1616W | 16U-S76    | 1   | 3.90 | 1.79 | 1-3/8 | 1-5/8 | 1.0             | 1-7/16-12 | 1       |



### 40 Hole Starter Hydraulic Fittings

IBS No. 250P • 11 Items • 43 Pcs. + 75' of Hose

Packaged in a Steel Storage Bin for Easy Storage & Organization

INCLUDES 25' EACH OF R2504, R2506, R2508



|  <b>Hydraulic Fittings Starter Assortment</b>                 |  |  |   |   | Assortment No. 250P |  |  |
|--|--|--|---|---|---------------------|--|--|
| <b>MP0404</b><br>1/4 X 1/4 MALE PIPE RIGID<br>                | <b>MP0604</b><br>3/8 X 1/4 MALE PIPE RIGID<br>                | <b>MP0606</b><br>3/8 X 3/8 MALE PIPE RIGID<br>                | <b>MP0808</b><br>1/2 X 1/2 MALE PIPE RIGID<br> | <b>MP1212</b><br>3/4 X 3/4 MALE PIPE RIGID<br> |                     |  |  |
| <b>FJX0404</b><br>1/4 X 1/4 37DG JIC FEMALE SWIVEL<br>        | <b>FJX0606</b><br>3/8 X 3/8 37DG JIC FEMALE SWIVEL<br>        | <b>FJX0606</b><br>3/8 X 3/8 37DG JIC FEMALE SWIVEL<br>        |   |   |                     |  |  |
| <b>FJX900404</b><br>1/4 X 1/4 37DG JIC FEMALE 90DG SWIVEL<br> | <b>FJX900606</b><br>3/8 X 3/8 37DG JIC FEMALE 90DG SWIVEL<br> | <b>FJX900808</b><br>1/2 X 1/2 37DG JIC FEMALE 90DG SWIVEL<br> |   |   |                     |  |  |
|  |  |  |   |   |                     |  |  |
|  |  |  |   |   |                     |  |  |

### 40 Hole Hydraulic Fittings

IBS No. 251P • 40 Items • 101 Pcs. + 75' of Hose

Packaged in a Steel Storage Bin for Easy Storage & Organization

INCLUDES 25' EACH OF R2S04, R2S06, R2S08



|  <b>Hydraulic Fittings</b>                      |   |   |   |  |  |   |  | Assortment No. 251P |  |
|--|---|---|---|--|--|---|--|---------------------|--|
| <b>MP0402W</b><br>1/4HBBW X -2 MALE NPTF<br>    | <b>MP0404W</b><br>1/4HBBW X -4 MALE NPTF<br> | <b>MP0406W</b><br>1/4HBBW X -6 MALE NPTF<br>     | <b>MP0604W</b><br>3/8HBBW X -4 MALE NPTF<br>   | <b>MP0606W</b><br>3/8 X MP-06-06-W<br>          | <b>MP0608W</b><br>3/8 X -8 MP RIGID W COUP<br> | <b>MP0806W</b><br>1/2 X 3/8 MP W COUPLING<br>    | <b>MP0808W</b><br>1/2 X MP-08-08-W (BQ-10)<br>  |                     |  |
| <b>MP0812W</b><br>1/2HBBW X -12 MALE NPTF<br>   | <b>MP1212W</b><br>3/4 X MP-12-12-W<br>       | <b>MP1616W</b><br>1 X MP-16-16-W<br>             | <b>MPX0404W</b><br>1/4HBBW X -4 MALE NPTF<br>  | <b>MPX0604W</b><br>3/8HBBW X -4 MALE NPTF X<br> | <b>MPX0606W</b><br>3/8HBBW X -6 MALE NPTF<br>  | <b>MPX0608W</b><br>3/8HBBW X -8 MALE NPTF<br>    | <b>MPX0808W</b><br>1/2HBBW X -8 MALE NPTF<br>   |                     |  |
| <b>MJX1212W</b><br>3/4 X MPX-12-12-W<br>        | <b>MJ0404W</b><br>1/4HBBW X -4 MALE JIC<br>  | <b>MJ0406W</b><br>1/4HBBW X -6 MALE JIC<br>      | <b>MJ0606W</b><br>3/8HBBW X -6 MJ COUPLING<br> | <b>MJ0608W</b><br>3/8 X -8 MJIC COUP W<br>      | <b>MJ0808W</b><br>1/2 X -8 MJIC W COUPLING<br> | <b>MJ0810W</b><br>1/2HBBW X -10 MJ COUPLING<br>  | <b>MJ1212W</b><br>3/4 X MJ-12-12-W COUPLING<br> |                     |  |
| <b>MJ1616W</b><br>1 IN X -16 JIC W COUPLING<br> | <b>FJX0404W</b><br>1/4 X FJX-04-04-H2<br>    | <b>FJX0606W</b><br>3/8 X FJX-06-06-W (BQ-10)<br> | <b>FJX0808W</b><br>3/8HBBW X -8 (BQ-10)<br>    | <b>FJX1212W</b><br>3/4 X FJX-12-12-W<br>        | <b>FJX1616W</b><br>1 IN X FJX-16-16-W<br>      | <b>FJX900404W</b><br>1/4HBBW X 4 FEM JIC 90D<br> | <b>FJX900606W</b><br>3/8 X FJX90-06-06-W<br>    |                     |  |
| <b>FJX900808W</b><br>1/2 X FJX90-08-08-W<br>    | <b>FJX901212W</b><br>3/4 X FJX90-12-12-W<br> | <b>FFX0808W</b><br>1/2HBBW X -8 FEM NPSM<br>     | <b>MB0606W</b><br>3/8HBBW X -6 MORB THREAD<br> | <b>MB0608W</b><br>3/8HBBW X -8 MORB THREAD<br>  | <b>MB0808W</b><br>1/2HBBW X -8 MORB RIGID<br>  | <b>MB0810W</b><br>1/2HBBW X -10 MALE ORB<br>     | <b>MB1212W</b><br>3/4HBBW MALE ORB COUPLING<br> |                     |  |

FITTINGS



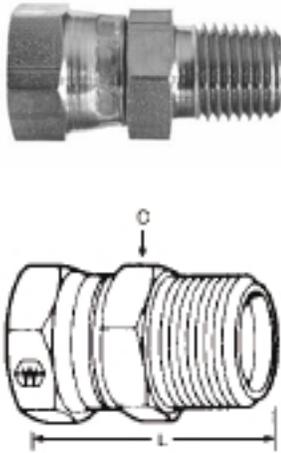
# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15

FITTINGS

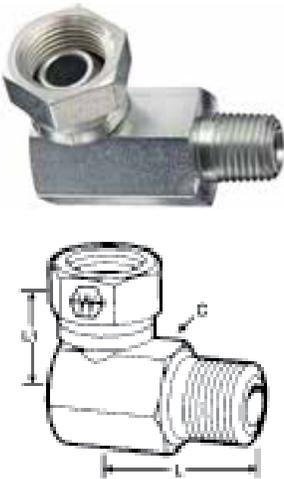
### High Pressure Hydraulic Fittings

#### Female Pipe (NPSM Female Swivel) to Male Pipe



| IBS No.    | NPSM Swivel Nut | MPT      | HEX   | L     | Qty |
|------------|-----------------|----------|-------|-------|-----|
| 9205x2x2   | 1/8-27          | 1/8-27   | 9/16  | .900  | 5   |
| 9205x2x4   | 1/8-27          | 1/4-18   | 11/16 | 1.187 | 5   |
| 9205x4x4   | 1/4-18          | 1/4-18   | 1/16  | 1.200 | 5   |
| 9205x4x6   | 1/4-18          | 3/8-18   | 11/16 | 1.200 | 5   |
| 9205x6x4   | 3/8-18          | 1/4-18   | 5/8   | 1.210 | 5   |
| 9205x6x6   | 3/8-18          | 3/8-18   | 3/4   | 1.240 | 5   |
| 9205x6x8   | 3/8-18          | 1/2-14   | 7/8   | 1.540 | 5   |
| 9205x8x6   | 1/2-14          | 3/8-18   | 7/8   | 1.330 | 5   |
| 9205x8x8   | 1/2-14          | 1/2-14   | 1     | 1.640 | 5   |
| 9205x8x12  | 1/2-14          | 3/4-14   | 1-1/4 | 1.620 | 2   |
| 9205x12x12 | 3/4-14          | 3/4-14   | 1-1/4 | 1.680 | 2   |
| 9205x16x16 | 1-11-1/2        | 1-11-1/2 | 1-1/2 | 2.010 | 2   |

#### Female Pipe (NPSM Female Swivel) to Male Pipe 90° Elbow



| IBS No.    | NPSM Swivel Nut | MPT      | HEX   | L     | L1    | Qty |
|------------|-----------------|----------|-------|-------|-------|-----|
| 9405x4x4   | 1/4-18          | 1/4-18   | 11/16 | .980  | .750  | 5   |
| 9405x4x6   | 1/4-18          | 3/8-18   | 11/16 | 1.090 | .810  | 5   |
| 9405x6x4   | 3/8-18          | 1/4-18   | 13/16 | 1.090 | .900  | 5   |
| 9405x6x6   | 3/8-18          | 3/8-18   | 7/8   | 1.090 | .900  | 2   |
| 9405x6x8   | 3/8-18          | 1/2-14   | 1     | 1.840 | 1.020 | 2   |
| 9405x8x6   | 1/2-14          | 3/8-18   | 1     | 1.280 | 1.020 | 2   |
| 9405x8x8   | 1/2-14          | 1/2-14   | 1     | 1.350 | 1.020 | 2   |
| 9405x8x12  | 1/2-14          | 1/2-14   | 1-1/4 | 1.490 | 1.140 | 2   |
| 9405x12x12 | 3/4-14          | 3/4-14   | 1-1/4 | 1.490 | 1.200 | 2   |
| 9405x16x16 | 1-11-1/2        | 1-11-1/2 | 1-1/2 | 2.380 | 1.440 | 2   |

### Swivel Fittings

IBS No. 739R • 15

Items • 30 Pcs

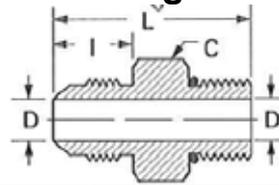
Packaged in a Locking Steel  
Drawer for Easy Storage &  
Organization

| <b>IBS, Inc.</b><br><small>SPECIALTY PRODUCTS FOR MAINTENANCE &amp; REPAIR<br/> INDUSTRIALBOLT.COM • © © 800-678-1506</small> |  |  |  |  | Swivel Fittings     |
|---|--|--|--|--|---------------------|
|   |  |  |  |  | Assortment No. 739R |
| <b>9205X2X4</b><br>1/8 X 1/4 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>   | <b>9205X4X4</b><br>1/4 X 1/4 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>      | <b>9205X4X6</b><br>1/4 X 3/8 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>      | <b>9205X6X4</b><br>3/8 X 1/4 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>      | <b>9205X6X6</b><br>3/8 X 3/8 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>      |                     |
| <b>9205X6X8</b><br>3/8 X 1/2 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>   | <b>9205X8X6</b><br>1/2 X 3/8 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>      | <b>9205X8X8</b><br>1/2 X 1/2 FEMALE PIPE<br>SWIVEL TO MALE PIPE<br>      |  |  |                     |
| <b>9405X4X4</b><br>1/4 X 1/4 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br>  | <b>9405X4X6</b><br>1/4 X 3/8 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br> | <b>9405X6X4</b><br>3/8 X 1/4 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br> | <b>9405X6X6</b><br>3/8 X 3/8 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br> | <b>9405X6X8</b><br>3/8 X 1/2 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br> |                     |
| <b>9405X8X6</b><br>1/2 X 3/8 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br>  | <b>9405X8X8</b><br>1/2 X 1/2 FEMALE PIPE<br>SWIVEL TO MALE PIPE 90DG<br> |  |  |  |                     |



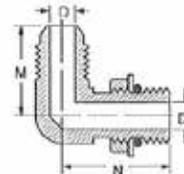
### High Pressure Hydraulic Fittings

#### JIC 37° Straight Thread BOSS O-Ring Connector



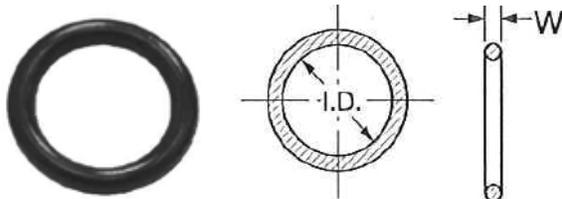
| IBS No.    | Tube O.D. | Port Size | HEX C | D    | D1    | I   | L    | Pkg Qty |
|------------|-----------|-----------|-------|------|-------|-----|------|---------|
| C5315X4    | 1/4       | 1/4       | 9/16  | .172 | .172* | .55 | 1.23 | 5       |
| C5315X4X6  | 1/4       | 3/8       | 11/16 | .172 | .297* | .55 | 1.29 | 5       |
| C5315X6X4  | 3/8       | 1/4       | 11/16 | .297 | .172  | .56 | 1.27 | 5       |
| C5315X6    | 3/8       | 3/8       | 11/16 | .297 | .297* | .56 | 1.30 | 5       |
| C5315X6X8  | 3/8       | 1/2       | 7/8   | .297 | .391* | .56 | 1.38 | 5       |
| C5315X8X6  | 1/2       | 3/8       | 13/16 | .391 | .291  | .66 | 1.44 | 5       |
| C5315X8    | 1/2       | 1/2       | 7/8   | .391 | .391* | .66 | 1.48 | 5       |
| C5315X8X12 | 1/2       | 3/4       | 1-1/4 | .609 | .609* | .66 | 1.76 | 5       |
| C5315X12X8 | 3/4       | 1/2       | 1-1/4 | .609 | .391  | .86 | 1.94 | 5       |
| C5315X16   | 1         | 1         | 1-1/2 | .844 | .844* | .91 | 2.04 | 2       |

#### JIC 37° 90° Elbow Straight Thread BOSS O-Ring Connector



| IBS No.   | Tube O.D. | Port Size | D    | D1   | M    | N    | Across Flats | Pkg Qty |
|-----------|-----------|-----------|------|------|------|------|--------------|---------|
| C5515X4   | 1/4       | 1/4       | .172 | .172 | .89  | 1.03 | 1/2          | 5       |
| C5515X6   | 3/8       | 3/8       | .297 | .297 | 1.06 | 1.25 | 5/8          | 5       |
| C5515X6X8 | 3/8       | 1/2       | .297 | .391 | 1.16 | 1.45 | 13/16        | 5       |
| C5515X8x6 | 1/2       | 3/8       | .391 | .297 | 1.25 | 1.34 | 13/16        | 5       |
| C5515X8   | 1/2       | 1/2       | .391 | .391 | 1.25 | 1.45 | 13/16        | 5       |
| C5515X12  | 3/4       | 3/4       | .609 | .609 | 1.66 | 1.94 | 1-1/8        | 2       |
| C5515X16  | 1         | 1         | .844 | .844 | 1.81 | 2.05 | 1.38         | 2       |

#### Straight Thread BOSS O-Ring



| IBS No. | Tube O.D. | W    | D     | Qty |
|---------|-----------|------|-------|-----|
| 7629X4  | 1/4       | .072 | .351  | 25  |
| 7629X6  | 3/8       | .078 | .468  | 25  |
| 7629X8  | 1/2       | .087 | .644  | 25  |
| 7629X10 | 5/8       | .097 | .755  | 25  |
| 7629X12 | 3/4       | .116 | .924  | 25  |
| 7629X16 | 1         | .116 | 1.171 | 25  |

FITTINGS



# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15

### Boss O-Ring Fitting Assortment

IBS No. 737R • 15 Items • 46 Pcs.

Packaged in a locking steel drawer for easy storage & organization

| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM © © © 800-678-1906  |  | Boss O-Ring Fittings  |  |  | Assortment No. 737R |
|--|--|---|--|--|---------------------|
| C5315X4<br>1/4 X 1/4 MALE JIC TO MALE O-RING BOSS<br>   | C5315X4X6<br>1/4 X 3/8 MALE JIC TO MALE O-RING BOSS<br> | C5315X6X4<br>3/8 X 1/4 MALE JIC TO MALE O-RING BOSS<br>      | C5315X6<br>3/8 X 3/8 MALE JIC TO MALE O-RING BOSS<br>        | C5315X6X8<br>3/8 X 1/2 MALE JIC TO MALE O-RING BOSS<br> |                     |
| C5315X8X6<br>1/2 X 3/8 MALE JIC TO MALE O-RING BOSS<br> | C5315X8<br>1/2 X 1/2 MALE JIC TO MALE O-RING BOSS<br>   | C5315X12X8<br>3/4 X 1/2 MALE JIC TO MALE O-RING BOSS<br>     | C5315X12<br>3/4 X 3/4 MALE JIC TO MALE O-RING BOSS<br>       |  |                     |
| C5515X4<br>1/4 MALE JIC TO MALE O-RING BOSS 90DG<br>    | C5515X6<br>3/8 MALE JIC TO MALE O-RING BOSS 90DG<br>    | C5515X6X8<br>3/8 X 1/2 MALE JIC TO MALE O-RING BOSS 90DG<br> | C5515X8X6<br>1/2 X 3/8 MALE JIC TO MALE O-RING BOSS 90DG<br> | C5515X8<br>1/2 MALE JIC TO MALE O-RING BOSS 90DG<br>    |                     |
| C5515X12<br>3/4 MALE JIC TO MALE O-RING BOSS 90DG<br>   |  |   |  |  |                     |

FITTINGS

### Straight Thread BOSS O-Ring Travel Tray (Z02)

IBS No. 742R • 6 Items • 135 Pcs

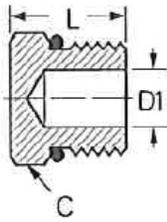
Packaged in a locking plastic container for easy storage & organization

| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM © © © 800-678-1906                |  | Straight Thread O-Rings (BOSS)   |   |  |  | Assortment No. 742R |
|--|--|--|---|--|--|---------------------|
| 7629X4<br>1/4 O-RING BOSS<br> | 7629X6<br>3/8 O-RING BOSS<br> | 7629X8<br>1/2 O-RING BOSS<br> | 7629X10<br>5/8 O-RING BOSS<br> | 7629X12<br>3/4 O-RING BOSS<br> | 7629X16<br>1" O-RING BOSS<br> |                     |



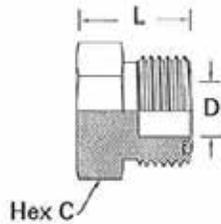


### BOSS O-Ring Hex Head Plug



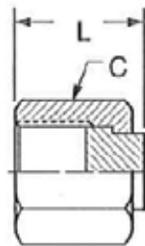
| IBS No. | Size | W     | D    | D1 OPT | Pkg Qty |
|---------|------|-------|------|--------|---------|
| 7237X4  | 1/4  | 9/16  | .67  | .203   | 5       |
| 7237X6  | 3/8  | 11/16 | .73  | .297   | 5       |
| 7237X8  | 1/2  | 7/8   | .80  | .422   | 5       |
| 7237X10 | 5/8  | 1     | .93  | .500   | 5       |
| 7237X12 | 3/4  | 1-1/4 | 1.09 | .656   | 5       |
| 7237X16 | 1    | 1-1/2 | 1.12 | .875   | 5       |

### For-Seal Plugs



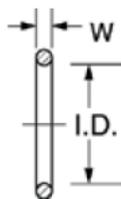
| IBS No. | Tube O.D. | Hex C  | D    | L     | Pkg Qty |
|---------|-----------|--------|------|-------|---------|
| 4229X4  | 1/4       | 5/8    | .172 | .659  | 5       |
| 4229X6  | 3/8       | 3/4    | .264 | .751  | 5       |
| 4229X8  | 1/2       | 7/7    | .378 | .854  | 5       |
| 4229X10 | 5/8       | 1-1/16 | .484 | 1.020 | 5       |
| 4229X12 | 3/4       | 1-1/4  | .609 | 1.080 | 5       |
| 4229X16 | 1         | 1-1/2  | .811 | 1.100 | 5       |

### For-Seal Caps



| IBS No. | Tube O.D. | Hex C | L    | Pkg Qty |
|---------|-----------|-------|------|---------|
| 4129X4  | 1/4       | 11/16 | .67  | 5       |
| 4129X6  | 3/8       | 13/16 | .75  | 5       |
| 4129X8  | 1/2       | 15/16 | .90  | 5       |
| 4129X10 | 5/8       | 1-1/8 | 1.00 | 5       |
| 4129X12 | 3/4       | 1-3/8 | 1.10 | 2       |
| 4129X16 | 1         | 1-5/8 | 1.17 | 2       |

### For-Seal O-Rings (Flat Face)



**Material:**  
Buna N, 90 Durometer

**Temperature:**  
-40°F to +250°F  
(-40°C to 121°C)

Standard o-ring  
complies with SAE  
Specification SAE J515  
Type CH

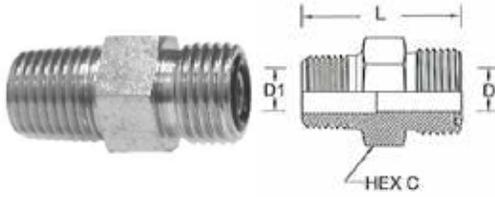
| IBS No. | Tube O.D. | W           | I.D.        | Pkg Qty |
|---------|-----------|-------------|-------------|---------|
| 4629X4  | 1/4       | .070 ± .005 | .301 ± .005 | 25      |
| 4629X6  | 3/8       | .070 ± .005 | .364 ± .005 | 25      |
| 4629X8  | 1/2       | .070 ± .005 | .489 ± .005 | 25      |
| 4629X10 | 5/8       | .070 ± .005 | .614 ± .005 | 25      |
| 4629X12 | 3/4       | .070 ± .005 | .739 ± .005 | 25      |
| 4629X16 | 1         | .070 ± .006 | .926 ± .006 | 25      |
| 4629X20 | 1-1/4     |             |             |         |

F I T T I N G S



# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15



### For-Seal Male Pipe Adapter

| IBS No.  | Tube O.D. | Size | Hex C | D    | D1   | L    | Pkg Qty |
|----------|-----------|------|-------|------|------|------|---------|
| 4205X6X6 | 3/8       | 3/8  | 3/4   | .261 | .406 | 1.30 | 5       |
| 4205X8X8 | 1/2       | 1/2  | 7/8   | .378 | .484 | 1.64 | 5       |



For Use on Split Flange Fittings

### Split Flange O-Rings

| IBS No. | Tube O.D. | W   | I.D.   | Pkg Qty |
|---------|-----------|-----|--------|---------|
| 8X252   | 1/2       | 1/8 | 3/4    | 5       |
| 12X252  | 3/4       | 1/8 | 1      | 5       |
| 16X252  | 1         | 1/8 | 1-5/16 | 5       |
| 20X252  | 1-1/4     | 1/8 | 1-1/2  | 5       |
| 24X252  | 1-1/2     | 1/8 | 1-7/8  | 5       |
| 32X252  | 2         | 1/8 | 2-1/4  | 5       |

FITTINGS

**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
INDUSTRIALBOLTY.COM • 800-678-1506

Boss and For-Seal O-Ring Fittings Cap and Plugs

Assortment No. 736R

|                                |                                |                                |                                 |                                 |
|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 7237X4<br>1/4 O-RING BOSS PLUG | 7237X6<br>3/8 O-RING BOSS PLUG | 7237X8<br>1/2 O-RING BOSS PLUG | 7237X10<br>5/8 O-RING BOSS PLUG | 7237X12<br>3/4 O-RING BOSS PLUG |
| 4229X4<br>1/4 FOR-SEAL PLUG    | 4229X6<br>3/8 FOR-SEAL PLUG    | 4229X8<br>1/2 FOR-SEAL PLUG    | 4229X10<br>5/8 FOR-SEAL PLUG    | 4229X12<br>3/4 FOR-SEAL PLUG    |
| 4129X4<br>1/4 FOR-SEAL CAP     | 4129X6<br>3/8 FOR-SEAL CAP     | 4129X8<br>1/2 FOR-SEAL CAP     | 4129X10<br>5/8 FOR-SEAL CAP     | 4129X12<br>3/4 FOR-SEAL CAP     |

### Boss and For-Seal Plugs and Caps

**IBS No. 736R**  
15 Items • 48 Pcs.  
Packaged in a large steel drawer for easy storage & organization

**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
INDUSTRIALBOLTY.COM • 800-678-1506

Hydraulic O-Ring Assortment

Assortment No. 805R

|   |  |  |  |   |
|---|--|--|--|---|
| 8X252<br>1/2 SPLIT FLANGE O-RING          | 12X252<br>3/4 SPLIT FLANGE O-RING          | 16X252<br>1" SPLIT FLANGE O-RING           | 20X252<br>1-1/4 SPLIT FLANGE O-RING        | 24X252<br>1-1/2 SPLIT FLANGE O-RING       |
| 32X252<br>2" SPLIT FLANGE O-RING          | 4629X4<br>1/4 FOR-SEAL O-RING              | 4629X6<br>3/8 FOR-SEAL O-RING              | 4629X8<br>1/2 FOR-SEAL O-RING              | 4629X10<br>5/8 FOR-SEAL O-RING            |
| 4629X12<br>3/4 FOR-SEAL O-RING            | 4629X16<br>1" FOR-SEAL O-RING              | 4629X20<br>1-1/4 FOR-SEAL O-RING           | 7629X4<br>1/4 O-RING BOSS STRAIGHT THREAD  | 7629X6<br>3/8 O-RING BOSS STRAIGHT THREAD |
| 7629X8<br>1/2 O-RING BOSS STRAIGHT THREAD | 7629X10<br>5/8 O-RING BOSS STRAIGHT THREAD | 7629X12<br>3/4 O-RING BOSS STRAIGHT THREAD | 7629X16<br>1IN O-RING BOSS STRAIGHT THREAD |   |

### Hydraulic O-Ring Assortment

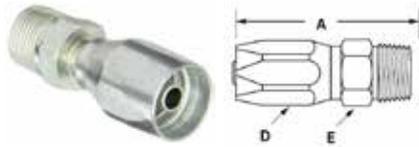
**IBS No. 805R**  
19 Items • 162 Pcs.  
Packaged in a large steel drawer for easy storage & organization

## Medium Pressure Hyd. Hose & Fittings O15

### Field Attachable Hydraulic Fittings

- Usage: Medium pressure and high temperature hose lines for a variety of applications, including truck, industrial, and small engines where temperature may be a problem.
- Use with medium pressure SAE 100R5 hose.
- Non-Mandrel assembly.

#### Male NPTF Pipe - Rigid Straight



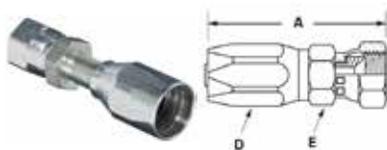
| IBS No.     | W'Head No. | Pipe Size | Thread | Hose ID | A    | Hose Cut-Off Factor | Hole Dia. | Hex D | Hex E |
|-------------|------------|-----------|--------|---------|------|---------------------|-----------|-------|-------|
| 20120-2-4   | 24704N-102 | 1/8       | 1/8-27 | 3/16    | 1.71 | 1                   | .12       | 5/8   | 7/16  |
| 20120-4-4   | 24704N-104 | 1/4       | 1/4-18 | 3/16    | 1.87 | 1.12                | .12       | 5/8   | 9/16  |
| 20120-4-5   | 24705N-104 | 1/4       | 1/4-18 | 1/4     | 1.96 | 1.25                | .18       | 11/16 | 9/16  |
| 20120-4-6   | 24706N-104 | 1/4       | 1/4-18 | 5/16    | 2.08 | 1.25                | .25       | 13/16 | 9/16  |
| 20120-6-6   | 24706N-106 | 3/8       | 3/8-18 | 5/16    | 2.11 | 1.25                | .25       | 13/16 | 11/16 |
| 20120-6-8   | 24708N-106 | 3/8       | 3/8-18 | 13/32   | 2.48 | 1.33                | .36       | 15/16 | 11/16 |
| 20120-8-8   | 24708N-108 | 1/2       | 1/2-14 | 13/32   | 2.73 | 1.58                | .36       | 15/16 | 7/8   |
| 20120-8-10  | 24710N-108 | 1/2       | 1/2-14 | 1/2     | 2.88 | 1.63                | .45       | 1-1/8 | 7/8   |
| 20120-12-10 | 24710N-112 | 3/4       | 3/4-14 | 1/2     | 2.94 | 1.69                | .45       | 1-1/8 | 1-1/8 |
| 20120-12-12 | 24712N-112 | 3/4       | 3/4-14 | 5/8     | 3.24 | 1.67                | .55       | 1-1/4 | 1-1/4 |

#### SAE Male Inverted Swivel



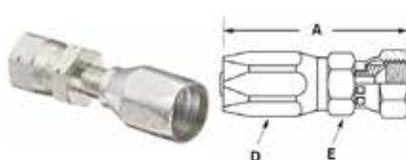
| IBS No.   | W'Head No. | Pipe Size | Thread  | Hose ID | A    | Hose Cut-Off Factor | Hole Dia. | Hex D | Hex F |
|-----------|------------|-----------|---------|---------|------|---------------------|-----------|-------|-------|
| 22820-4-4 | 24704N-B04 | 1/4       | 7/16-24 | 3/16    | 2.54 | 1.81                | .18       | 5/8   | 7/16  |
| 22820-5-5 | 24705N-B05 | 5/16      | 1/2-20  | 1/4     | 2.75 | 2.00                | .21       | 11/16 | 1/2   |
| 22820-6-6 | 24706N-B06 | 3/8       | 5/16-18 | 5/16    | 2.91 | 2.00                | .31       | 13/16 | 5/8   |
| 22820-8-8 | 24708N-B08 | 1/2       | 3/4-18  | 13/32   | 3.63 | 2.00                | .43       | 15/16 | 3/4   |

#### SAE 37° Female Swivel



| IBS No.     | W'Head No. | Pipe Size | Thread    | Hose ID | Hose Cut-Off Factor | Hole Dia. | A    | D     | E     |
|-------------|------------|-----------|-----------|---------|---------------------|-----------|------|-------|-------|
| 20620-6-6   | 24706N-606 | 3/8       | 9/16-18   | 5/16    | 1.50                | .25       | 2.35 | 13/16 | 11/16 |
| 20620-8-8   | 24708N-608 | 1/2       | 3/4-16    | 13/32   | 1.75                | .36       | 2.82 | 15/16 | 7/8   |
| 20620-12-12 | 24712N-612 | 3/4       | 1-1/16-12 | 5/8     | 1.94                | .55       | 3.46 | 1-1/4 | 1-1/4 |

#### SAE 45° Female Swivel



| IBS No.     | W'Head No. | Pipe Size | Thread (in.) | Hose ID | Hose Cut-Off Factor | Hole Dia. | A    | Hex D | Hex E |
|-------------|------------|-----------|--------------|---------|---------------------|-----------|------|-------|-------|
| 20820-4-4   | 24704N-604 | 1/4       | 7/16-20      | 3/16    | 1.31                | .13       | 2.01 | 5/8   | 9/16  |
| 20820-5-5   | 24705N-605 | 5/16      | 1/2-20       | 1/4     | 1.50                | .18       | 2.19 | 11/16 | 5/8   |
| 20820-6-6   | 24706N-406 | 3/8       | 5/8-18       | 5/16    | 1.46                | .25       | 2.36 | 13/16 | 3/4   |
| 20820-8-8   | 24708N-608 | 1/2       | 3/4-16       | 13/32   | 1.75                | .36       | 2.82 | 15/16 | 7/8   |
| 20820-8-10  | 24710N-608 | 1/2       | 3/4-16       | 1/2     | 1.75                | .39       | 3.04 | 1-1/8 | 7/8   |
| 20820-10-10 | 24710N-610 | 5/8       | 7/8-14       | 1/2     | 1.75                | .45       | 3.04 | 1-1/8 | 1     |
| 20820-12-12 | 24712N-412 | 3/4       | 1-1/16-14    | 5/8     | 1.92                | .55       | 3.49 | 1-1/4 | 1-1/4 |

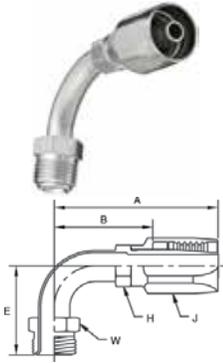
FITTINGS



# IBS, INCORPORATED

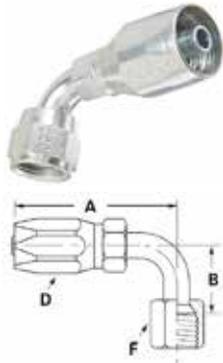
## Medium Pressure Hyd. Hose & Fittings O15

FITTINGS



Male Inverted SAE 45° Swivel 90° Elbow

| IBS No.   | W'Head No. | Pipe Size | Thread (in.) | Hose ID | Hose Cut-Off Factor | Hole Dia. | A    | B    | Hex D | Hex F |
|-----------|------------|-----------|--------------|---------|---------------------|-----------|------|------|-------|-------|
| 26920-4-4 | 24704N-E04 | 1/4       | 7/16-24      | 3/16    | 1.62                | .18       | 2.36 | 1.69 | 5/8   | 7/16  |
| 26920-5-5 | 24705N-E05 | 5/16      | 1/2-20       | 1/4     | 1.75                | .24       | 2.53 | 1.69 | 11/16 | 1/2   |
| 26920-6-6 | 24706N-E06 | 3/8       | 5/8-18       | 5/16    | 1.73                | .30       | 2.63 | 1.73 | 7/8   | 5/8   |



Female SAE 45° Swivel 90° Elbow

| IBS No.     | W'Head No. | Pipe Size | Thread (in.) | Hose ID | A    | B    | Hose Cut-Off Factor | Hole Dia. | Hex D | Hex F |
|-------------|------------|-----------|--------------|---------|------|------|---------------------|-----------|-------|-------|
| 27920-4-4   | 24704N-664 | 1/4       | 7/16-20      | 3/16    | 1.74 | .68  | 0.99                | .12       | 5/8   | 9/16  |
| 27920-5-5   | 24705N-665 | 5/16      | 1/2-20       | 1/4     | 1.96 | .77  | 1.18                | .18       | 11/16 | 5/8   |
| 27920-6-6   | 24706N-466 | 3/8       | 5/8-18       | 5/16    | 2.13 | .85  | 1.23                | .25       | 13/16 | 3/4   |
| 27920-8-8   | 24708N-668 | 1/2       | 3/4-16       | 13/32   | 2.76 | 1.09 | 1.61                | .38       | 15/16 | 7/8   |
| 27920-10-10 | 24710N-670 | 5/8       | 7/8-14       | 1/2     | 2.94 | 1.23 | 1.62                | .45       | 1-1/8 | 1     |
| 27920-12-12 | 24712N-472 | 3/4       | 1-1/16-14    | 5/8     | 3.67 | 1.82 | 2.17                | .55       | 1-1/4 | 1-1/4 |

### Field Attachable Fittings (Z02)

IBS No. 750R • 11 Items • 19 Pieces

Packaged in locking steel drawer for easy storage & organization

**Field Attachable Fittings**

Assortment No. 750R

|  |   |   |
|--|---|---|
| <p>20620-6-6<br/>5/16 X 3/8 JIC 37DGR F STRAIGHT SWIVEL</p>  | <p>20820-8-8<br/>13/32 X 1/2 SAE 45DGR F STRAIGHT SWIVEL</p>          | <p>27920-4-4<br/>3/16 X 1/4 SAE 45DGR FLARE F SWIVEL 90DGR ELBOW</p>  |
| <p>20620-8-8<br/>13/32 X 1/2 JIC 37DGR F STRAIGHT SWIVEL</p> | <p>20820-10-10<br/>1/2 x 5/8 SAE 45DGR F STRAIGHT SWIVEL</p>          | <p>27920-6-6<br/>5/16 X 3/8 SAE 45DGR FLARE F SWIVEL 90DGR ELBOW</p>  |
| <p>20820-4-4<br/>3/16 X 1/4 SAE 45DGR F STRAIGHT SWIVEL</p>  | <p>20120-8-8<br/>13/32 X 1/2 MALE PIPE RIGID</p>                      | <p>27920-8-8<br/>13/32 X 1/2 SAE 45DGR FLARE F SWIVEL 90DGR ELBOW</p> |
| <p>20820-6-6<br/>5/16 X 3/8 SAE 45DGR F STRAIGHT SWIVEL</p>  | <p>27920-10-10<br/>1/2 X 3/8 SAE 45DGR FLARE F SWIVEL 90DGR ELBOW</p> |   |



### Nylon Pneumatic Tubing

Nylon tubing is a popular choice for low pressure pneumatic applications because of its combination of flexibility and toughness. Our pneumatic tubing uses a heat and light stabilized, very flexible high grade Nylon 12 compound that yields the finest quality tubing available. Nylon 12 raw materials feature good chemical resistance, low water absorption and superior dimensional stability. Nylon is the most recommended tubing material for all types of pneumatic circuits.

**Temperature Range: -60°F to +200°F (-60°C to +93°C)**

#### NYLON FRACTIONAL TUBING — 100 FT ROLL

| O.D. | I.D.                          | IBS No. | Color   | Thick | O.D. | I.D.                          | IBS No. | Color   | Thick |
|------|-------------------------------|---------|---------|-------|------|-------------------------------|---------|---------|-------|
| 1/8  | Working Pressure @75°F 225PSI | 61210   | Natural | 0.016 | 5/32 | Working Pressure @75°F 275PSI | 61230   | Natural | 0.025 |
|      |                               | 61211   | Black   |       |      |                               | 61231   | Black   |       |
|      |                               | 61212   | Red     |       |      |                               | 61232   | Red     |       |
|      |                               | 61213   | Blue    |       |      |                               | 61233   | Blue    |       |
|      |                               | 61214   | Green   |       |      |                               | 61234   | Green   |       |
|      |                               | 61215   | Yellow  |       |      |                               | 61235   | Yellow  |       |
|      |                               | 61216   | Orange  |       |      |                               | 61236   | Orange  |       |
|      |                               | 61217   | Gray    |       |      |                               | 61237   | Gray    |       |
| 3/16 | Working Pressure @75°F 225PSI | 61330   | Natural | 0.025 | 1/4  | Working Pressure @75°F 265PSI | 61440   | Natural | 0.040 |
|      |                               | 61331   | Black   |       |      |                               | 61441   | Black   |       |
|      |                               | 61332   | Red     |       |      |                               | 61442   | Red     |       |
|      |                               | 61333   | Blue    |       |      |                               | 61443   | Blue    |       |
|      |                               | 61334   | Green   |       |      |                               | 61444   | Green   |       |
|      |                               | 61335   | Yellow  |       |      |                               | 61445   | Yellow  |       |
|      |                               | 61336   | Orange  |       |      |                               | 61446   | Orange  |       |
|      |                               | 61337   | Gray    |       |      |                               | 61447   | Gray    |       |
| 5/16 | Working Pressure @75°F 240PSI | 61550   | Natural | 0.040 | 3/8  | Working Pressure @75°F 220PSI | 61660   | Natural | 0.050 |
|      |                               | 61551   | Black   |       |      |                               | 61661   | Black   |       |
|      |                               | 61552   | Red     |       |      |                               | 61662   | Red     |       |
|      |                               | 61553   | Blue    |       |      |                               | 61663   | Blue    |       |
|      |                               | 61554   | Green   |       |      |                               | 61664   | Green   |       |
|      |                               | 61555   | Yellow  |       |      |                               | 61665   | Yellow  |       |
|      |                               | 61556   | Orange  |       |      |                               | 61666   | Orange  |       |
|      |                               | 61557   | Gray    |       |      |                               | 61667   | Gray    |       |
| 1/2  | Working Pressure @75°F 200PSI | 61880   | Natural | 0.062 |      |                               |         |         |       |
|      |                               | 61881   | Black   |       |      |                               |         |         |       |
|      |                               | 61882   | Red     |       |      |                               |         |         |       |
|      |                               | 61883   | Blue    |       |      |                               |         |         |       |
|      |                               | 61884   | Green   |       |      |                               |         |         |       |
|      |                               | 61885   | Yellow  |       |      |                               |         |         |       |
|      |                               | 61886   | Orange  |       |      |                               |         |         |       |
|      |                               | 61887   | Gray    |       |      |                               |         |         |       |

FITTINGS



# IBS, INCORPORATED

## Poly-Push Fittings O12

### Nylon Pneumatic Tubing



#### NYLON METRIC TUBING — 100 FT ROLL

| O.D. | I.D.   | IBS No. | Color   | Thick | O.D. | I.D.  | IBS No. | Color   | Thick |
|------|--|---------|---------|-------|------|---|---------|---------|-------|
| 4MM  | 2.7MM<br>Working<br>Pressure<br>@75°F 275PSI | 71020   | Natural | .65MM | 10MM | 8MM<br>Working<br>Pressure<br>@75°F 180PSI  | 71100   | Natural | 1MM   |
|      |  | 71021   | Black   |       |      |   | 71101   | Black   |       |
| O.D. | I.D.   | IBS No. | Color   | Thick | O.D. | I.D.  | IBS No. | Color   | Thick |
| 6MM  | 4MM<br>Working<br>Pressure<br>@75°F 280PSI   | 71060   | Natural | 1MM   | 12MM | 10MM<br>Working<br>Pressure<br>@75°F 165PSI | 71120   | Natural | 1MM   |
|      |  | 71061   | Black   |       |      |   | 71121   | Black   |       |
| O.D. | I.D.   | IBS No. | Color   | Thick | O.D. | I.D.  | IBS No. | Color   | Thick |
| 8MM  | 6MM<br>Working<br>Pressure<br>@75°F 210PSI   | 71080   | Natural | 1MM   |      |   |         |         |       |
|      |  | 71081   | Black   |       |      |   |         |         |       |

### NT100 “Nylon” 11 (O13)

**Note: When using copper tubing air brake fittings with nylon tubing, an insert must be used to prevent the tubing from collapsing.**



**Developed specifically for air brake applications. Can also be used in a wide range of instrumentation and secondary air systems.**

Meets all requirements of SAE J844, Type A & B and DOT FMVSS 571.106. 1/8" O. D. size does not meet DOT standards. Offers good resistance to butane, coal, gas, gasoline, kerosene, methane, oxygen, propane, turpentine.

- Type A: Available in 1/8", 1/4" and 5/16" sizes only - not reinforced.
- Type B: Available in 3/8" and larger sizes only - reinforced.
- Available in Black only.
- Temperature range: -40° F to +200° F.
- Construction: Core-nylon; Braid-POLYAMIDE (3/8" and larger sizes only); Jacket-nylon Contains Ultra-Violet Stabilizer
- Application: Air brake systems except where temperatures exceed +200° F or where battery acid can drip on tubing.

| IBS No. | O.D. in | Wall in. | MAX Working Pressure PSI 75°F | MIN Burst Pressure PSI 75°F | MIN Bend Radius 70°F | Lbs. Per 100 Ft | Coil Length Feet |
|---------|---------|----------|-------------------------------|-----------------------------|----------------------|-----------------|------------------|
| NT10002 | 1/8     | .023     | 150                           | 1000                        | .375"                | .4              | 25               |
| NT10004 | 1/4     | .040     | 150                           | 1200                        | 1.0"                 | 1.2             | 25               |
| NT10006 | 3/8     | .062     | 150                           | 1400                        | 1.5"                 | 2.9             | 25               |
| NT10008 | 1/2     | .062     | 150                           | 950                         | 2.0"                 | 3.8             | 25               |
| NT10010 | 5/8     | .092     | 150                           | 900                         | 2.5"                 | 6.8             | 25               |

# IBS, INCORPORATED

## Miscellaneous Hose & Tubing O13



### SAE 30R7 Fuel Line Hose

#### LOW PRESSURE HOSE (Not for Electronic Fuel Injection)

Multi-purpose hose for use on fuel lines, PCV and EEC systems and for fuel return hose connections on diesel fuel injection systems. Approved for use with leaded and unleaded gasoline, diesel and gasoline blends of ethanol, methanol, and ethers (up to the legal limits allowed by the EPA).

Features:

- Reinforced construction.
- Nitrile tube.
- Hypalon\* cover resists the effects of high heat and ozone found in engine compartments.
- Meets or exceeds SAE, OEM Federal and State of California standards for fuel line eec systems. Meets SAE 30R6 and SAE 30R7 requirements.
- Vacuum rating of 24 In/Hg.



**WARNING: DOT NOT USE FOR pressure lines on fuel injected engines or cooling system applications. Use Multi-Port Injection (MPI) hose for fuel applications.**

| IBS No. | Hose ID (in.) | Hose OD (mm) | Rated WP (psi) | Pkg Qty |
|---------|---------------|--------------|----------------|---------|
| 423-3   | 3/16          | 4.8          | 50             | 25'     |
| 423-4   | 1/4           | 6.3          | 50             | 25'     |
| 423-5   | 5/16          | 8.0          | 50             | 25'     |
| 423-6   | 3/8           | 9.5          | 50             | 25'     |
| 423-8   | 1/2           | 12.7         | 50             | 25'     |

### General Purpose Air Hose

This is an economical and versatile general purpose hose. Excellent for air and water service, it can also be used for many agricultural chemicals including Lasso herbicide. It's EPDM tube and cover resists heat, sunlight, ozone and weather. All sizes shown exceed RMA class C medium oil resistance criteria which includes reference B requirements. This hose is suitable for applications such as oil mist lubricating air lines, but NOT recommended for the transfer of petroleum products. 4:1 safety factor.



Tube: Black EPDM

Cover: Red EPDM

Reinforcement: Multiple textile plies

Temperature Range: -40°F to +200°F

| IBS No. | Hose ID (in.) | Hose OD (mm) | Ply | Rated WP (psi) | Min. Bend Radius | Weight per 100 ft. | Pkg Qty |
|---------|---------------|--------------|-----|----------------|------------------|--------------------|---------|
| 478-8   | 1/2           | 27/32        | 2   | 250 psi        | 4.5              | 23                 | 50'     |
| 478-10  | 5/8           | 11/16        | 2   | 250 psi        | 5.5              | 29                 | 50'     |
| 478-12  | 3/4           | 1-5/32       | 2   | 250 psi        | 6.0              | 37                 | 50'     |

### DOT Air Brake Hose

Meets: SAE, J1402, DOT/FMVSS 106 Type All

Temperature Range: -40°C to +100°C (-40°F to +212°F)

Applications include tractor to trailer lines, axle chamber lines and tractor service lines.



| IBS No. | Hose I.D. |      | Hose O.D. |      | Maximum Operating Pressure |     | Minimum Burst Pressure |     | Minimum Bend Radius |      | QTY |
|---------|-----------|------|-----------|------|----------------------------|-----|------------------------|-----|---------------------|------|-----|
|         | mm        | in   | mm        | in   | bar                        | psi | bar                    | psi | mm                  | in   |     |
| 71038   | 9.7       | 0.38 | 19.1      | 0.75 | 16.0                       | 225 | 62.0                   | 900 | 44.5                | 1.75 | 25  |
| 71050   | 12.7      | 0.50 | 22.4      | 0.88 | 16.0                       | 225 | 62.0                   | 900 | 50.8                | 2.00 | 25  |

FITTINGS



# IBS, INCORPORATED

## Miscellaneous Hose & Tubing O13

### Yellow Belly PVC Air Hose (V03)

High Visibility Hose with Male NPT Rigid Ends

Yellow Belly Hybrid PVC Air Hose is constructed of a lightweight yet durable hybrid PVC material, and offers an superior alternative to the traditional rubber air hose.

- Half the weight of traditional rubber hose makes it easier to work with.
- Stays flexible in cold weather down to -40°F makes it ideal for colder, outdoor environments.
- Lays flat on the ground and resists kinking for safer use with less chance of tripping over or getting caught.
- Higher working pressure than traditional rubber hose — 300 psi vs 200 psi.
- Bright yellow color makes for improved shop safety.



Hose Material: Hybrid PVC resin

Working Pressure: 300 PSI

Temp Range: -40°F to +200°F

Good Abrasion Resistance

Good Chemical Resistance

| IBS No. | Hose ID (in.) | Length (ft.) | Fitting       | Color  | Rated WP (psi) | Pkg Qty |
|---------|---------------|--------------|---------------|--------|----------------|---------|
| 130530  | 1/4           | 50           | 1/4" NPT Male | Yellow | 300            | 1       |
| 130531  | 1/4           | 100          | 1/4" NPT Male | Yellow | 300            | 1       |
| 130532  | 3/8           | 50           | 1/4" NPT Male | Yellow | 300            | 1       |
| 130533  | 3/8           | 100          | 1/4" NPT Male | Yellow | 300            | 1       |

### SAE20R3 Standard Heater Hose

This lightweight hose is designed for automotive coolant heater hose service. Also ideal for low-pressure water discharge. It is resistant to Lasso herbicide. 4:1 safety factor. **SOLD BY THE FOOT. 25 FT. MINIMUM ORDER**

**Tube:** Black EPDM

**Cover:** Black EPDM

**Reinforcement:** Multiple Textile Plies

**Temperature Range:** -40°F to +200°F



| IBS No. | Hose ID (in.) | Hose OD (mm) | Ply | Rated WP (psi) | Min. Bend Radius (in) | Weight per 100 Ft. |
|---------|---------------|--------------|-----|----------------|-----------------------|--------------------|
| 452-10  | 5/8           | 29/32        | 2   | 62 psi         | 3.75                  | 21                 |
| 452-12  | 3/4           | 1-1/32       | 2   | 50 psi         | 4.50                  | 25                 |
| 452-16  | 1             | 1-13/32      | 2   | 44 psi         | 7.0                   | 45                 |

### Vacuum Tubing (EPDM Rubber)

SAE J1037 Type 2 Specifications Sold by the Foot



| IBS No. | ID (in.) | OD (in) | Nipple Size | Pkg Qty |
|---------|----------|---------|-------------|---------|
| 431-2   | 7/64     | 9/32    | 1/8         | 50 ft.  |
| 431-5   | 5/32     | 5/16    | 3/16        | 50 ft.  |
| 431-7   | 7/32     | 13/32   | 1/4         | 50 ft.  |

FITTINGS

# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15



### High Pressure Hose - Braided

#### SAE 100R1 Hydraulic Hose

Recommended for: Medium pressure hydraulic oil lines  
 Tube: Oil resistant synthetic rubber  
 Reinforcement: One high tensile steel rubber wire braid  
 Cover: Abrasion, ozone and weather-resistant synthetic rubber  
 Meets flame resistant MSHA designation  
 Temperature Range: -40°F to +212°F (+248°F Max)



| IBS No. | W'Head No. | Hose ID | Hose OD (in.) | Rated WP (psi) | Min.Burst (psi) | Min Bend (in.) | Pkg | Spool |
|---------|------------|---------|---------------|----------------|-----------------|----------------|-----|-------|
| R1S04   | H10404     | 1/4     | 0.53          | 3265           | 13053           | 4              | 25' | 500   |
| R1S06   | H10406     | 3/8     | 0.69          | 2610           | 10443           | 5              | 25' | 500   |
| R1S08   | H10408     | 1/2     | 0.81          | 2320           | 9282            | 7              | 25' | 350   |
| R1S10   | H10410     | 5/8     | 0.93          | 1885           | 7542            | 8              | 25' | 650   |
| R1S12   | H10412     | 3/4     | 1.09          | 1525           | 6092            | 9.5            | 25' | 500   |
| R1S16   | H10416     | 1       | 1.40          | 1275           | 5076            | 12             | 25' | 280   |

#### SAE 100R2 Hydraulic Hose

Recommended for: High pressure hydraulic oil lines  
 Tube: Oil resistant synthetic rubber  
 Reinforcement: Two high tensile steel rubber wire braid  
 Cover: Abrasion, ozone and weather-resistant synthetic rubber  
 Meets flame resistant MSHA designation  
 Temperature Range: -40°F to +212°F (+248°F Max)



| IBS No. | W'Head No. | Hose ID | Hose OD (in.) | Rated WP (psi) | Min.Burst (psi) | Min Bend (in.) | Pkg | Spool |
|---------|------------|---------|---------------|----------------|-----------------|----------------|-----|-------|
| R2S04   | H42504     | 1/4     | 0.59          | 5800           | 23200           | 4              | 25' | 500   |
| R2S06   | H42506     | 3/8     | 0.475         | 4785           | 19140           | 5              | 25' | 450   |
| R2S08   | H42508     | 1/2     | 0.87          | 3990           | 15960           | 7              | 25' | 320   |
| R2S10   | H42510     | 5/8     | 1.00          | 3625           | 14500           | 8              | 25' | 520   |
| R2S12   | H42512     | 3/4     | 1.15          | 3120           | 12480           | 9.5            | 25' | 400   |
| R2S16   | H42516     | 1       | 1.50          | 2395           | 9580            | 12             | 25' | 165   |

#### SAE 100R16 Hydraulic Hose

Recommended for: High pressure hydraulic oil lines  
 Tube: Oil resistant synthetic rubber  
 Reinforcement: Two high tensile steel rubber wire braid  
 Cover: Abrasion, ozone and weather-resistant synthetic rubber  
 Meets flame resistant MSHA designation  
 Temperature Range: -40°F to +212°F (+248°F Max)



| IBS No. | W'Head No. | Hose ID | Hose OD (in.) | Rated WP (psi) | Min.Burst (psi) | Min Bend (in.) | Pkg | Spool |
|---------|------------|---------|---------------|----------------|-----------------|----------------|-----|-------|
| R16S04  | H24504     | 1/4     | 0.57          | 5800           | 23200           | 2              | 25' | 500   |
| R16S06  | H24506     | 3/8     | 0.74          | 4780           | 19120           | 2.5            | 25' | 450   |
| R16S08  | H24508     | 1/2     | 0.86          | 3980           | 15920           | 3.5            | 25' | 320   |
| R16S10  | H24510     | 5/8     | 1.00          | 3620           | 14480           | 4              | 25' | 520   |
| R16S12  | H24512     | 3/4     | 1.14          | 3110           | 12440           | 4.8            | 25' | 400   |
| R16S16  | H24516     | 1       | 1.44          | 2390           | 9560            | 6              | 25' | 200   |

FITTINGS



# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15

### Medium Pressure Hose - Braided O15

#### SAE 100R5 Hydraulic Hose

Recommended for: Medium pressure hydraulic oil lines and other air, water and oil service.

Meets or exceeds requirements of SAE 100R5.

Tube: Black synthetic rubber

Reinforcement: Textile inner braid and a braid of higher tensile steel wire.

Cover: Black, oil resistant textile braid

Temperature Range: -40°F to +250°F (intermittent 300°F)

Skiving Required: No

DOT approved for use in air brake systems



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| IBS No. | W'Head No. | Hose ID | Hose OD (in.) | Rated WP (psi) | Min.Burst (psi) | Min Bend (in.) | Pkg | Spool |
|---------|------------|---------|---------------|----------------|-----------------|----------------|-----|-------|
| R504    | H06904     | 3/16    | 0.520         | 3,000          | 12,000          | 3.000          | 25' | 250   |
| R505    | H06905     | 1/4     | 0.580         | 3,000          | 12,000          | 3.400          | 25' | 250   |
| R506    | H06906     | 5/16    | 0.680         | 2,250          | 9,000           | 4.000          | 25' | 250   |
| R508    | H06908     | 13/32   | 0.770         | 2,000          | 8,000           | 4.600          | 25' | 250   |
| R510    | H06910     | 1/2     | 0.920         | 1,750          | 7,000           | 5.500          | 25' | 250   |
| R512    | H06912     | 5/8     | 1.080         | 1,500          | 6,000           | 6.500          | 25' | 250   |

# IBS, INCORPORATED

## High Pressure Hyd. Hose & Fittings O15



### Hydraulic Hose Shields (O13)



Hydraulic Hose Shields are durable wear shields made of an abrasion resistant material. Easily attached to nearly any size or type of hose these hydraulic hose shields can prevent up to 90% of all failure due to wear at points of contact. With an extremely high wear factor and a wide range of operating temperatures (-40°F to 430°F), the hose shield provides protection in a wide variety of applications.

#### Features:

- **Extremely high** wear factor.
- Formulated to resist solvents, oils, grease, gasoline, etc.
- Grooves protect cable ties and prevent slipping.
- Operating temperature range is -40° to 430°F.
- Exceptionally cost-effective.
- Installs in minutes — no need to remove hose.
- Available in 4", 6", 8", & 10" sizes.
- Wire ties included for easy assembly.

#### Protects:

- Hydraulic Hoses
- Battery Cables
- Wiring Harness
- Radiator Hoses
- Fuel Lines
- Air Lines
- Oil Lines
- Brake Systems

#### Where to Use:

- Agricultural
- Construction
- Industrial
- Mining
- Waste Mgmt
- Transportation
- Road Maintenance
- Brake Systems
- Oil Lines
- Aviation Support
- OEM Manufacturer

| IBS No. | Size | Color  | Qty | IBS No. | Size | Color  | Qty |
|---------|------|--------|-----|---------|------|--------|-----|
| 18180   | 4"   | Black  | 5   | 18191   | 8"   | Black  | 5   |
| 18181   | 4"   | Orange | 5   | 18192   | 8"   | Orange | 5   |
| 18182   | 4"   | Yellow | 5   | 18193   | 8"   | Yellow | 5   |
| 18185   | 6"   | Black  | 5   | 18197   | 10"  | Black  | 5   |
| 18186   | 6"   | Orange | 5   | —       | —    | —      | —   |
| 18187   | 6"   | Yellow | 5   | —       | —    | —      | —   |

### Hydraulic Hose Shields Assortment (Z02)

IBS No. 367R • 10 Items • 25 Pcs

Packaged in a locking steel drawer for easy storage & organization.



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# IBS, INCORPORATED

## Miscellaneous Hose & Tubing O13

### Spiral Hose Wrap



Spiral Hose Wraps are a durable spiral protective wrapping designed for easy installation to existing hydraulic hoses as a quick and cost effective method for minimizing production losses. These hose shields provide protection against wear and damage caused by misuse, poor maintenance, or aggressive working environments.

- **Increases the life of hydraulic hoses**, reducing repairs and down time — Saves Money!
- Protects against abrasive wear and crushing damage.
- Rounded edges facilitate installation and reduce the risk of exposed sharp edges.
- Use to protect a single hose or to bundle hoses together.
- Spiral cut for ultimate flexibility.
- High resistance to ultraviolet weathering.
- Suitable for operations across a wide temperature range -180°F to +250°F.
- Suitable for use with all hydraulic fluids and is impervious to oils, solvent, etc.

#### Color Coded 8" Pieces

| IBS No. | Size           | Color  | Use on         | Qty |
|---------|----------------|--------|----------------|-----|
| 19000   | 1/2" x 8 in.   | Black  | 1/4" ID        | 1   |
| 19002   | 5/8" x 8 in.   | Red    | 1/4" & 3/8" ID | 1   |
| 19004   | 3/4" x 8 in.   | Yellow | 3/8" ID        | 1   |
| 19006   | 1" x 8 in.     | Green  | 1/2" & 5/8" ID | 1   |
| 19008   | 1-1/4" x 8 in. | Purple | 3/4" ID        | 1   |
| 19010   | 1-1/2" x 8 in. | Gray   | 1" & 1-1/4" ID | 1   |

#### Color Coded 10' & 5' Coils

| IBS No. | Size           | Color  | Use on         | Qty |
|---------|----------------|--------|----------------|-----|
| 19001   | 1/2" x 10 ft.  | Black  | 1/4" ID        | 1   |
| 19003   | 5/8" x 10 ft.  | Red    | 1/4" x 3/8" ID | 1   |
| 19005   | 3/4" x 10 ft.  | Yellow | 3/8" ID        | 1   |
| 19007   | 1" x 5 ft.     | Green  | 1/2" x 5/8" ID | 1   |
| 19009   | 1-1/4" x 5 ft. | Purple | 3/4" ID        | 1   |
| 19011   | 1-1/2" x 5 ft. | Gray   | 1" & 1-1/4" ID | 1   |

FITTINGS

### Spiral Hose Shields Assortment (Z02)

IBS No. 777R  
6 Items • 21 Pcs  
Packaged in a locking steel drawer for easy storage & organization.



#### Black ONLY 8" Pieces

| IBS No. | Size           | Use on         | Qty |
|---------|----------------|----------------|-----|
| 19000   | 1/2" x 8 in.   | 1/4" ID        | 1   |
| 19022   | 5/8" x 8 in.   | 1/4" & 3/8" ID | 1   |
| 19024   | 3/4" x 8 in.   | 3/8" ID        | 1   |
| 19026   | 1" x 8 in.     | 1/2" & 5/8" ID | 1   |
| 19028   | 1-1/4" x 8 in. | 3/4" ID        | 1   |
| 19030   | 1-1/2" x 8 in. | 1" & 1-1/4" ID | 1   |

#### Black ONLY Cut to Length (5' Increments)

| IBS No. | Size   | Use on         | Qty |
|---------|--------|----------------|-----|
| 19021   | 1/2"   | 1/4" ID        | FT  |
| 19023   | 5/8"   | 1/4" x 3/8" ID | FT  |
| 19025   | 3/4"   | 3/8" ID        | FT  |
| 19027   | 1"     | 1/2" x 5/8" ID | FT  |
| 19029   | 1-1/4" | 3/4" ID        | FT  |
| 19031   | 1-1/2" | 1" & 1-1/4" ID | FT  |

### Hydraulic Crimper



- **Heavy duty** 60+ ton capacity
- 1/8 to 1-1/4 6-wire capability
- Fully adjustable crimp settings
- 0.125 to 2.75 crimp capability
- Auto micro-switch shut-off
- Good crimp visibility
- Comes with 5 dies standard: KHC-0520, KHC-0670, KHC-0830, KHC-1100, KHC-1320
- Includes die holder
- Quick crimp cycle time
- Well accepted Dayco die configuration
- Interchangeable with Dayco dies
- Built for longevity

| IBS No. | Description       | Qty |
|---------|-------------------|-----|
| KH60    | Hydraulic Crimper | 1   |

### HYDRAULIC CRIMP SPECIFICATIONS

#### STANDARD FITTINGS ON 100R16 & 100R2 HOSE

| Hose   | IBS No. | SIZE | DIE POSITION | DIE  | CRIMP DIM. | GAUGE SETTING |
|--------|---------|------|--------------|------|------------|---------------|
| 100R16 | R16S04  | 1/4" | TO KNURL     | 0.52 | 0.615      | 86            |
| 100R16 | R16S06  | 3/8" | TO KNURL     | 0.67 | 0.74       | 91            |
| 100R16 | R16S08  | 1/2" | TO KNURL     | 0.83 | 0.86       | 97            |
| 100R16 | R16S10  | 5/8" | TO KNURL     | 0.83 | 1          | 73            |
| 100R16 | R16S12  | 3/4" | TO KNURL     | 1.1  | 1.13       | 98            |
| 100R16 | R16S16  | 1"   | TO KNURL     | 1.32 | 1.425      | 84            |
| 100R2  | R2S04   | 1/4" | TO KNURL     | 0.52 | 0.645      | 80            |
| 100R2  | R2S06   | 3/8" | TO KNURL     | 0.67 | 0.8        | 76            |
| 100R2  | R2S08   | 1/2" | TO KNURL     | 0.83 | 0.91       | 89            |
| 100R2  | R2S10   | 5/8" | TO KNURL     | 0.83 | 1.03       | 66            |
| 100R2  | R2S12   | 3/4" | TO KNURL     | 1.1  | 1.19       | 87            |
| 100R2  | R2S16   | 1"   | TO KNURL     | 1.5  | 1.507      | 99            |

#### W FITTINGS ON 100R16 & 100R2 HOSE

| Hose   | IBS No. | SIZE | DIE POSITION | DIE  | CRIMP DIM. | GAUGE SETTING |
|--------|---------|------|--------------|------|------------|---------------|
| 100R16 | R16S04  | 1/4" | FULL         | 0.67 | 0.67       | 100           |
| 100R16 | R16S06  | 3/8" | FULL         | 0.67 | 0.815      | 78            |
| 100R16 | R16S08  | 1/2" | FULL         | 0.83 | 0.945      | 82            |
| 100R16 | R16S10  | 5/8" | FULL         | 1.1  | 1.178      | 90            |
| 100R16 | R16S12  | 3/4" | FULL         | 1.1  | 1.23       | 80            |
| 100R16 | R16S16  | 1"   | FULL         | 1.5  | 1.555      | 95            |
| 100R2  | R2S04   | 1/4" | FULL         | 0.67 | 0.695      | 100           |
| 100R2  | R2S06   | 3/8" | FULL         | 0.83 | 0.845      | 97            |
| 100R2  | R2S08   | 1/2" | FULL         | 0.83 | 0.97       | 77            |
| 100R2  | R2S10   | 5/8" | FULL         | 1.1  | 1.2        | 89            |
| 100R2  | R2S12   | 3/4" | FULL         | 1.1  | 1.285      | 69            |
| 100R2  | R2S16   | 1"   | FULL         | 1.5  | 1.665      | 73            |

FITTINGS



# IBS, INCORPORATED

## Hydraulic Couplers O17

### ISO-A Female Pipe Couplers & Plugs



#### FEATURES: ISO-A

- Poppet valves prevent uncoupled leakage.
- Critical parts are induction hardened for durability.
- Dependable ball-locking mechanism holds the mating halves together.
- Socket and plug are precision machined from solid barstock.
- Standard nitrile seals temp range -40°F to +250°F.



#### ISO-A FEMALE PIPE COUPLER

| IBS No. | Body Size | NPT | Qty |
|---------|-----------|-----|-----|
| 137782  | 1/2       | 1/2 | 1   |
| 137784  | 3/4       | 3/4 | 1   |
| 137786  | 1         | 1   | 1   |



#### ISO-A FEMALE PIPE PLUG

| IBS No. | Body Size | NPT | Qty |
|---------|-----------|-----|-----|
| 137783  | 1/2       | 1/2 | 1   |
| 137785  | 3/4       | 3/4 | 1   |
| 137787  | 1         | 1   | 1   |

#### ISO 7241 -1 ISO-A INTERCHANGE (CONNECTED)

##### Steel Coupler / Plug

| Body Size | Maximum Working |     | Burst  |       |
|-----------|-----------------|-----|--------|-------|
|           | PSI             | Bar | PSI    | Bar   |
| 1/2"      | 4,000           | 275 | 16,500 | 1,100 |
| 3/4"      | 4,000           | 275 | 14,800 | 1,000 |
| 1"        | 4,000           | 275 | 12,400 | 850   |

#### HYDRAULIC ISO-A FEMALE COUPLER INTERCHANGE

| IBS No. | Parker     | Hansen     | Tomco     | Dixon  | Safeway | Foster  | Aeroquip    |
|---------|------------|------------|-----------|--------|---------|---------|-------------|
| 137782  | 6601-8-10  | HA15231-00 | CA5604-26 | 56-400 | S565-4  | AF15-08 | 5601-8-10S  |
| 137784  | 6601-12-12 | HA15241-00 | CA5606-31 | 56-660 | S565-6  | AF15-12 | 5601-12-12S |
| 137786  | 6601-16-16 | HA15251-00 | CA5608-36 | 56-800 | S565-8  | AF15-16 | 5601-16-16S |

#### HYDRAULIC ISO-A FEMALE PIPE PLUG INTERCHANGE

| IBS No. | Parker     | Hansen     | Tomco     | Dixon  | Safeway | Foster  | Aeroquip    |
|---------|------------|------------|-----------|--------|---------|---------|-------------|
| 137783  | 6602-8-10  | HA15232-00 | PA5604-26 | 57-400 | S561-4  | AM15-08 | 5602-8-10S  |
| 137785  | 6602-12-12 | HA15242-00 | PA5606-31 | 57-660 | S561-6  | AM15-12 | 5602-12-12S |
| 137787  | 6602-16-16 | HA15252-00 | PA5608-36 | 57-800 | S561-8  | AM15-16 | 5602-16-16S |

FITTINGS

## Hydraulic Quick Couplers Assortment (Z02)

IBS No. 825R • 6 Items • 12Pcs  
Packaged in a locking steel drawer for easy storage & organization.

**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
INDUSTRIALQUALITY.COM • © C 800-678-1986

**Hydraulic Quick Couplers**

Assortment No. 825R

|   |   |   |  |
|---|---|---|--|
| <p>137782<br/>1/2 X 1/2 ISO-A F PIPE COUPLER<br/>HYDRAULIC QUICK DISCONNECT</p> | <p>137784<br/>3/4 X 3/4 ISO-A F PIPE COUPLER<br/>HYDRAULIC QUICK DISCONNECT</p> | <p>137786<br/>1 X 1 ISO-A F PIPE COUPLER<br/>HYDRAULIC QUICK DISCONNECT</p> | <p>137787<br/>1 X 1 ISO-A F PIPE PLUG HYDRAULIC<br/>QUICK DISCONNECT</p> |
| <p>137783<br/>1/2 X 1/2 ISO-A F PIPE PLUG<br/>HYDRAULIC QUICK DISCONNECT</p>    | <p>137785<br/>3/4 X 3/4 ISO-A F PIPE PLUG<br/>HYDRAULIC QUICK DISCONNECT</p>    |   |  |

# IBS, INCORPORATED

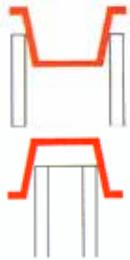
## Miscellaneous Hose & Tubing O13



### Pipe Thread Protectors NPT Male/Female



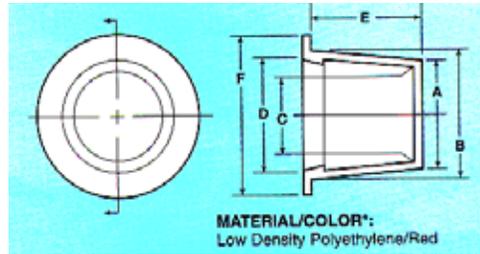
Pipe thread protectors can be used as either caps or plugs. Because they are tapered in design and made from highly pliable (or flexible) polyethylene, they cannot only be applied to fit snugly but are readily removable . . . whether used for capping or plugging.



**WHEN PLUGGING**  
"B" Dia. must be at least 1% larger than hole to be plugged. Minimum .020"



**WHEN CAPPING**  
"C" Dia. must be at least 1% smaller than hole to be capped. Minimum .020"

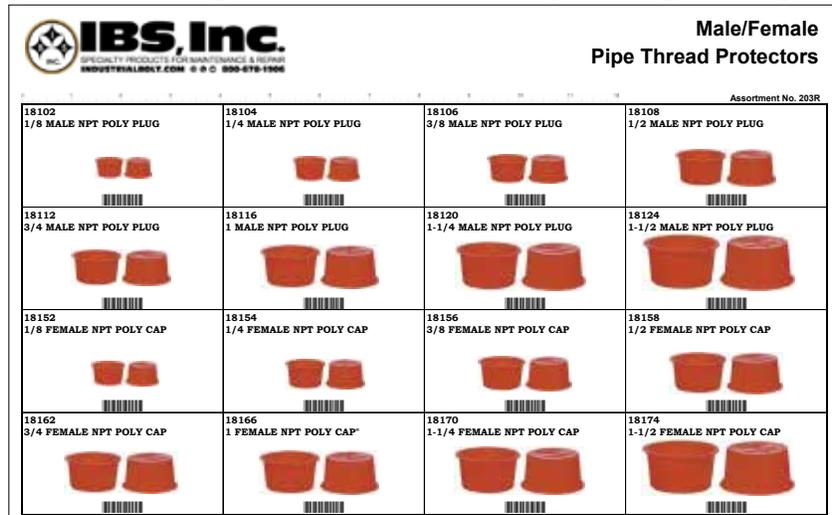


| IBS No. | Description      | Industry No. | A     |       | B     |       | C     |       | D     |       | E    |       | F    |       | Qty |
|---------|------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|-----|
|         |                  |              | in.   | mm    | in.   | mm    | in.   | mm    | in.   | mm    | in.  | mm    | in.  | mm    |     |
| 18102   | 1/8 M NPT Plug   | 2X           | .330  | 8.26  | .396  | 10.06 | .267  | 6.78  | .333  | 8.46  | .38  | 9.65  | .53  | 13.48 | 25  |
| 18104   | 1/4 M NPT Plug   | 4            | .419  | 10.64 | .485  | 12.32 | .356  | 9.04  | .422  | 10.72 | .38  | 9.65  | .63  | 16.00 | 25  |
| 18106   | 3/8 M NPT Plug   | 6X           | .550  | 13.97 | .631  | 16.03 | .487  | 12.37 | .568  | 14.43 | .47  | 11.94 | .75  | 19.05 | 25  |
| 18108   | 1/2 M NPT Plug   | 9            | .690  | 17.53 | .788  | 20.02 | .628  | 15.95 | .726  | 18.44 | .56  | 14.22 | .94  | 23.88 | 25  |
| 18112   | 3/4 M NPT Plug   | 12X          | .915  | 23.24 | 1.040 | 26.42 | .855  | 21.72 | .980  | 24.89 | .69  | 17.53 | 1.16 | 29.47 | 25  |
| 18116   | 1 M NPT Plug     | 14           | 1.094 | 27.79 | 1.215 | 30.86 | 1.031 | 26.19 | 1.152 | 29.26 | .75  | 19.05 | 1.41 | 35.82 | 25  |
| 18120   | 1-1/4 M NPT Plug | 17S          | 1.513 | 38.43 | 1.600 | 40.64 | 1.451 | 36.86 | 1.537 | 39.04 | .50  | 12.70 | 1.75 | 44.45 | 10  |
| 18124   | 1-1/2 M NPT Plug | 20S          | 1.781 | 45.24 | 1.805 | 45.85 | 1.722 | 43.74 | 1.746 | 44.35 | .38  | 9.65  | 2.00 | 50.80 | 10  |
| 18152   | 1/8 F NPT Cap    | 4            | .419  | 10.64 | .485  | 12.32 | .356  | 9.04  | .422  | 10.72 | .38  | 9.65  | .63  | 16.00 | 25  |
| 18154   | 1/4 F NPT Cap    | 6            | .532  | 13.51 | 6.08  | 15.44 | .468  | 11.89 | .545  | 13.84 | .44  | 11.18 | .75  | 19.05 | 25  |
| 18156   | 3/8 F NPT Cap    | 8X           | .675  | 17.15 | 7.55  | 19.18 | .613  | 15.57 | .693  | 17.60 | .50  | 12.70 | .88  | 22.35 | 25  |
| 18158   | 1/2 F NPT Cap    | 11           | .802  | 20.37 | .911  | 23.14 | .740  | 18.80 | .849  | 21.57 | .63  | 16.00 | 1.06 | 26.93 | 25  |
| 18162   | 3/4 F NPT Cap    | 13X          | .995  | 25.27 | 1.145 | 29.08 | .933  | 23.70 | 1.083 | 27.51 | .75  | 19.05 | 1.31 | 33.28 | 25  |
| 18166   | 1 F NPT Cap      | 15X          | 1.235 | 31.37 | 1.360 | 34.55 | 1.173 | 29.80 | 1.298 | 32.97 | .81  | 20.57 | 1.50 | 38.10 | 25  |
| 18170   | 1-1/4 F NPT Cap  | 18           | 1.560 | 39.63 | 1.682 | 42.72 | 1.498 | 38.05 | 1.620 | 41.15 | .75  | 19.05 | 1.88 | 47.75 | 10  |
| 18174   | 1-1/2 F NPT Cap  | 20           | 1.780 | 45.61 | 1.950 | 49.53 | 1.718 | 43.65 | 1.888 | 47.96 | 1.00 | 25.40 | 2.13 | 54.10 | 10  |

### Pipe Thread Protector Assortment (Z02)

IBS No. 203R • 16 Items • 340 Pieces

Packaged in locking steel drawer for easy storage & organization



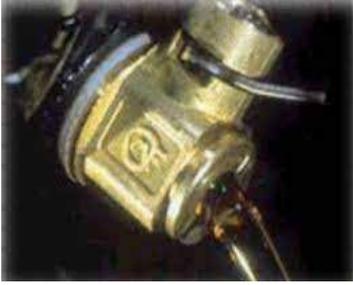
FITTINGS



# IBS, INCORPORATED

## Drain Cocks & Valves O05

### Engine Oil Drain Valves



- **Drain engine oil without tools** and without mess.
- **Opens easily** — lift the lever of this solid brass ball valve and give it a quarter turn.
- Return the lever to its original position and it locks closed
- **Double sealed** to prevent leakage.
- Made of **corrosion resistant** forged brass and stainless steel.
- **Ball valve design** provides a straight flow for efficient drainage and a perfect seal when closed.
- **Eliminates frozen drain plug and stripped threads**, saving time and money!
- **Drawing samples for oil analysis is as easy as 1-2-3**
- **Available in sizes to fit** cars, light trucks, vans, heavy duty trucks and buses.

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In the United States, the Engine Oil Drain Valve is being installed at the factory level on some of the vehicles and equipment made by Ford, Kohler, Freightliner, Caterpillar, JLG, GEHL, Ingersoll-Rand, Sullair, Toyota, Case, Magnetek, Timberjack, Lincoln Electric, Vermeer, Baldor, Terex, Deutz, Phaser Marine Generator, and more.

#### ENDORSEMENTS

The Engine Oil Drain Valve has been tested and granted "Genuine Parts" status by 6 major motor vehicle manufacturers in Japan, including Toyota, Nissan, Mazda, Mitsubishi, Subaru, and Isuzu.

#### SAE

| IBS No. | Fumoto No. | Size        | Qty |
|---------|------------|-------------|-----|
| 136301  | F-101      | 1/2-20 NF   | 1   |
| 136302  | T-204      | 3/4-16 NF   | 1   |
| 136303  | T-203      | 1-18 NF     | 1   |
| 136304  | T-205      | 1-1/8-12 NF | 1   |

#### METRIC

| IBS No. | Fumoto No. | Size     | Qty |
|---------|------------|----------|-----|
| 136305  | F-103      | M12-1.25 | 1   |
| 136306  | F-107      | M12-1/75 | 1   |
| 136307  | F-111      | M14-1.25 | 1   |
| 136308  | F-106      | M14-1.5  | 1   |
| 136309  | F-108      | M16-1.5  | 1   |
| 136311  | F-104      | M18-1.5  | 1   |
| 136312  | T-211      | M27-1.5  | 1   |

#### PIPE THREAD

| IBS No. | Fumoto No. | Size   | Qty |
|---------|------------|--------|-----|
| 136313  | F-110N     | 3/8-18 | 1   |
| 136314  | T-202      | 1/2-14 | 1   |
| 136315  | T-201      | 3/4-14 | 1   |



### Hose Clamps

#### A

##### Assortments

Hose Clamp

Aero-Seal, Large R-3

Aero-Seal, Small R-3

Band-It Clamps R-7

Constant Torque Liner Clamps R-5

Economy Clamp R-10

Liner, Large R-4, R-5, R-7

Liner, Small R-4

T-Bolt Hose Clamp R-7

Two Ear Hose Clamp R-9

#### H

##### Hose Clamps

BREEZE Constant Torque Liner

Assembly Instructions R-5

BREEZE High Torque Liner R-6

Center Punch Galvanized Band-It Clamps R-7

Economy R-10

Liner R-3, R-4

T-Bolt Clamps R-6

Two Ear Hose Clamps R-9

Worm-Drive

Aero-Seal R-3

Economy Clamps R-10

Liner R-4

#### T

##### Tools

Band-It Center Punch Clamps

Heavy Duty Hand Tool R-8

Light Duty Hand Tool R-8



### BREEZE Worm-Drive Clamp Systems ADVANTAGES OVER OTHER CLAMP SYSTEMS



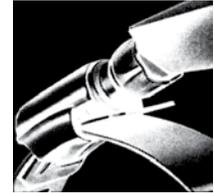
1. Special Shoulder - The shoulder behind the hex head keeps tools like sockets or nut drivers from jamming into the slots or band-end, making the clamp appear to be tight when it isn't.



2. 5/16" Hex Head - The 5/16" hex head found on all our clamps provides clearance for open-end wrenches, whereas larger hexes (3/8", etc.) do not, making wrench tightening difficult if not impossible.



3. Through Slotted - The open slot allows for the use of any size screwdriver. With larger screwdrivers it is easier to tighten the clamp. Slots that are closed at the sides require the use of a small screwdriver.



4. Corrosion Resistant - All clamps are 100% stainless steel. The band, saddle and housing are made from 300 series stainless steel and the screws are made from 410 stainless steel.

- 5. Finished edge on all bands, this prevents the clamp from damaging the hose.
- 6. Concave band compared to flat means the clamp seals from the center to the outside which produces uniformed sealing.
- 7. Arcial Cut Band compared to square cut. For smoother gear action and greater torquing for a stronger band which means less failure and labor savings.
- 8. Quadru-lock Housing - a housing with no welds to break, higher torque to band providing less cold water leaks and band failures due to stripped or broken clamps.
- 9. Exceeds by 50% the Quality Control Standards of an AMO MS Mil Spec for worm-drive clamps. These clamps have been used on space shuttles.

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### Aero-Seal (R01)

#### Industrial/Aircraft Clamps The Original BREEZE Stainless Steel Worm-Drive Clamp

- Heavy-duty four-piece Quadra-lock construction enables more tightening torque to be delivered to the band perforations.
- Ideal for heavy duty industrial applications.
- All stainless steel
- 120P, 122P, 220P & 222P Assortments Available
- Screw Sizes: #3604-#3608 = 1/4 WAF  
QS06-QS72 = 5/16 WAF



| IBS No. | Band | Effective Diameter Range |     |         |     | Qty |
|---------|------|--------------------------|-----|---------|-----|-----|
|         |      | Minimum                  |     | Maximum |     |     |
|         |      | inch                     | mm  | inch    | mm  |     |
| QS3604  | 5/16 | 7/32                     | 5.6 | 5/8     | 16  | 10  |
| QS3606  | 5/16 | 7/16                     | 11  | 25/32   | 20  | 10  |
| QS3608  | 5/16 | 1/2                      | 13  | 29/32   | 23  | 10  |
| QS06    | 9/16 | 7/16                     | 11  | 25/32   | 20  | 10  |
| QS08    | 9/16 | 1/2                      | 13  | 29/32   | 23  | 10  |
| QS10    | 9/16 | 9/16                     | 14  | 1-1/16  | 27  | 10  |
| QS12    | 9/16 | 11/16                    | 17  | 1-1/4   | 32  | 10  |
| QS16    | 9/16 | 13/16                    | 21  | 1-1/2   | 38  | 10  |
| QS20    | 9/16 | 13/16                    | 21  | 1-3/4   | 44  | 10  |
| QS24    | 9/16 | 1-1/16                   | 27  | 2       | 51  | 10  |
| QS28    | 9/16 | 1-5/16                   | 33  | 2-1/4   | 57  | 10  |
| QS32    | 9/16 | 1-9/16                   | 40  | 2-1/2   | 64  | 10  |
| QS36    | 9/16 | 1-13/16                  | 46  | 2-3/4   | 70  | 10  |
| QS40    | 9/16 | 2-1/16                   | 52  | 3       | 76  | 10  |
| QS44    | 9/16 | 2-5/16                   | 59  | 3-1/4   | 83  | 10  |
| QS48    | 9/16 | 2-9/16                   | 65  | 3-1/2   | 89  | 10  |
| QS52    | 9/16 | 2-13/16                  | 71  | 3-3/4   | 95  | 10  |
| QS56    | 9/16 | 3-1/16                   | 78  | 4       | 102 | 10  |
| QS60    | 9/16 | 3-5/16                   | 84  | 4-1/4   | 108 | 10  |
| QS64    | 9/16 | 3-9/16                   | 91  | 4-1/2   | 114 | 10  |
| QS72    | 9/16 | 4-1/8                    | 105 | 5       | 127 | 10  |

### Assortments (Z08)

#### Aero-Seal Clamps

IBS No. 120P  
10 Sizes • 100 Pieces  
Storage Rack Included

IBS No. 125P  
10 Sizes • 50 Pieces  
Storage Rack Included



#### AERO-SEAL CLAMPS ASSORTMENT

| IBS No. | Size Range         |
|---------|--------------------|
| QS3604  | 7/32" to 5/8"      |
| QS3608  | 1/2" to 29/32"     |
| QS06    | 7/16" to 25/32"    |
| QS10    | 9/16" to 1-1/16    |
| QS12    | 11/16" to 1-1/4"   |
| QS16    | 13/16" to 1-1/2"   |
| QS20    | 13/16" to 1-3/4"   |
| QS28    | 1-5/16" to 2-1/4"  |
| QS32    | 1-9/16" to 2-1/2"  |
| QS36    | 1-13/16" to 2-3/4" |

#### Aero-Seal Clamps

IBS No. 220P  
5 Sizes • 50 Pieces

IBS No. 225P  
5 Sizes • 25 Pieces

#### LARGE AERO-SEAL CLAMPS ASSORTMENT

| IBS No. | Size Range         |
|---------|--------------------|
| QS40    | 2-1/16" to 3"      |
| QS48    | 2-9/16" to 3-1/2"  |
| QS52    | 2-13/16" to 3-3/4" |
| QS56    | 3-1/16" to 4"      |
| QS72    | 1-7/8" to 5"       |

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# IBS, INCORPORATED

## Liner Hose Clamps S.S. R01 & R02

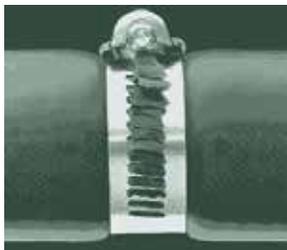
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### BREEZE Liner Clamps for Soft/Silicone Hose (R02)

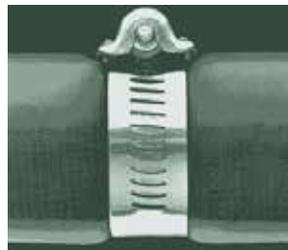
- Liner band is an integral extension of the band.
- Liner is not riveted or welded.
- Protects silicone and other soft surface hose from damage caused by extrusion or shearing through the band slots.
- Liner clamps are designed to give a true concentric seal.
- All stainless steel.
- 120LP & 220LP Assortments Available.
- Screw Size: 5/16 WAF



| IBS No. | Band | Effective Diameter Range |    |         |    | Qty |
|---------|------|--------------------------|----|---------|----|-----|
|         |      | Minimum                  |    | Maximum |    |     |
|         |      | inch                     | mm | inch    | mm |     |
| L9406   | 9/16 | 7/16                     | 11 | 25/32   | 20 | 10  |
| L9408   | 9/16 | 1/2                      | 13 | 29/32   | 23 | 10  |
| L9410   | 9/16 | 9/16                     | 14 | 1-1/16  | 27 | 10  |
| L9412   | 9/16 | 11/16                    | 17 | 1-1/4   | 32 | 10  |
| L9416   | 9/16 | 13/16                    | 21 | 1-1/2   | 38 | 10  |
| L9420   | 9/16 | 13/16                    | 21 | 1-3/4   | 44 | 10  |
| L9424   | 9/16 | 1-1/16                   | 27 | 2       | 51 | 10  |
| L9428   | 9/16 | 1-5/16                   | 33 | 2-1/4   | 57 | 10  |
| L9432   | 9/16 | 1-9/16                   | 40 | 2-1/2   | 64 | 10  |
| L9436   | 9/16 | 1-13/16                  | 46 | 2-3/4   | 70 | 10  |
| L9440   | 9/16 | 2-1/16                   | 52 | 3       | 76 | 10  |
| L9444   | 9/16 | 2-5/16                   | 59 | 3-1/4   | 83 | 10  |
| L9448   | 9/16 | 2-9/16                   | 65 | 3-1/2   | 89 | 10  |



Without Liner



With Liner

### Large Size Hose Clamp Assortments (Z08)

#### Liner Clamps

**IBS No. 120LP**  
10 Sizes • 100 Pieces  
Storage Rack Included



#### LINER CLAMPS ASSORTMENT

| IBS No. | Size Range         |
|---------|--------------------|
| L9406   | 7/16" to 25/32"    |
| L9408   | 1/2" to 29/32"     |
| L9410   | 9/16" to 1-1/16"   |
| L9412   | 11/16" to 1-1/4"   |
| L9416   | 13/16" to 1-1/2"   |
| L9420   | 13/16" to 1-3/4"   |
| L9424   | 1-1/16" to 2"      |
| L9428   | 1-5/16" to 2-1/4"  |
| L9432   | 1-9/16" to 2-1/2"  |
| L9436   | 1-13/16" to 2-3/4" |

#### Liner Clamps

**IBS No. 220LP**  
5 Sizes • 35 Pieces

#### LARGE LINER CLAMPS ASSORTMENT

| IBS No.  | Size Range        |
|----------|-------------------|
| L9440    | 2-1/16" to 3"     |
| L9448    | 2-9/16" to 3-1/2" |
| HTM-350L | 2-3/4" to 3-5/8"  |
| HTM-400L | 3-1/4" to 4-1/8"  |
| HTM-500L | 4-1/4" to 5-1/8"  |



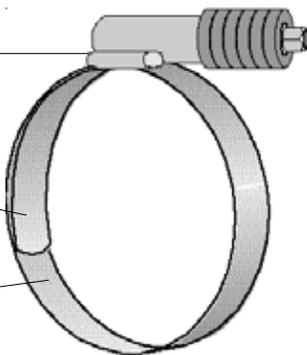
### BREEZE Constant Torque Liner Clamps

#### ACTIVE PRESSURE-COMPENSATING CLAMPS

Housing orbitally riveted to saddle at 4 points provides extra strength.

Liner protects soft or silicone hose from damage, extrusion, or shear.

Full 5/8" band width provides greater sealing surface.



Energy stored in compressed Belleville springs controls automatic clamp adjustment.

Eight screw threads (instead of 3 or 4 found in other clamps) are engaged at all times for high torquing drive and vibration resistance.

This revolutionary clamp reacts to contracting and expanding hose systems by decreasing or increasing its own diameter in response to system changes.

Virtually all rubber hose compresses ("cold flow") after a clamping device is installed. This results in an 80% or greater torque loss almost immediately following installation. Also, virtually all metal connections will expand as the system heats up and then contract as the system cools back down. Most other clamping systems (conventional worm gear, "T" bolt, etc.) are passive systems, which means that expansion and contraction of system components can not be adjusted for without retightening or loosening the clamps. The constant torque clamping system is an "active" clamping system, which means that it monitors the system and then makes compensations for the changes by changing its diameter through a unique worm gear Belleville spring assembly.

Constant Torque Liner Clamps are ideal for:

- sealed systems which cannot be retightened
- systems where clamps are difficult to reach
- applications which require high torque
- large diameter applications
- systems that experience extremes of heat or cold
- systems which expand or contract.

Constant Torque Liner Clamps are designed for torque compensation at installation torques from 50 to 150 in-lbs and all parts are made of stainless steel.

| IBS No. | Effective Diameter Range |               |                 |               | Qty |
|---------|--------------------------|---------------|-----------------|---------------|-----|
|         | Minimum<br>inch          | Minimum<br>mm | Maximum<br>inch | Maximum<br>mm |     |
| CT175L  | 1                        | 25            | 1-3/4           | 44            | 5   |
| CT250L  | 1-3/4                    | 45            | 2-5/8           | 67            | 5   |
| CT300L  | 2-1/4                    | 57            | 3-1/8           | 79            | 5   |
| CT350L  | 2-3/4                    | 70            | 3-5/8           | 92            | 5   |
| CT400L  | 3-1/4                    | 83            | 4-1/8           | 105           | 5   |
| CT450L  | 3-3/4                    | 95            | 4-5/8           | 118           | 5   |
| CT500L  | 4-1/4                    | 108           | 5-1/8           | 130           | 5   |

Screw Size: 3/8 WAF

### Assembly Instructions

To properly install a Constant Torque Liner Clamp a torque wrench should be used.



#### MAXIMUM EXPANSION

Clamps should be installed at 50 in-lbs of torque. Screw tip should slightly protrude from housing.

#### EQUAL EXPANSION OR CONTRACTION

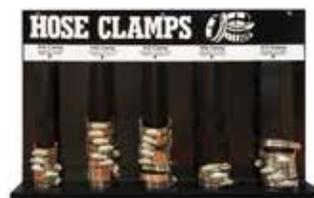
Clamps should be installed at 90 in-lbs. of torque. Screw tip protrudes from housing and Belleville springs are compressed.

#### MAXIMUM CONTRACTION

Clamps should be installed at 125 in-lbs of torque. Screw tip extends well beyond housing and Belleville springs are compressed to about 90% of flat.

### Constant Torque Liner Clamps

IBS No. 220CT  
5 Sizes • 14 Pieces



| IBS No. | Description                    |
|---------|--------------------------------|
| CT300L  | #300 CONSTANT TORQ LINER CLAMP |
| CT350L  | #350 CONSTANT TORQ LINER CLAMP |
| CT400L  | #400 CONSTANT TORQ LINER CLAMP |
| CT450L  | #450 CONSTANT TORQ LINER CLAMP |
| CT500L  | #500 CONSTANT TORQ LINER CLAMP |



# IBS, INCORPORATED

## High Torque & T-Bolt Clamps R05 & R09

### Breeze High Torque Liner Clamps (R05)

Guaranteed to Withstand more than 3X the SAE Standard Torque Requirements for Worm Drive Clamps

An industrial strength worm-drive stainless steel clamp which is bigger, heavier, and stronger than the "Aero-Seal" clamp.



- All components made of stainless steel.
- Heavy gauge housing orbitally riveted to saddle.
- Designed so that 8 screw threads are simultaneously engaged in the band for increased torquing drive, sealing pressure and vibration resistance.
- Liner band extends underneath drive slots to protect silicone and other soft hose from damage or extrusion.
- Eliminates double clamping and "T" bolts.
- 150 in-lbs. of torque on the screw.
- 220LP Assortment available.
- Screw Size: 5/16 WAF

| IBS No.  | Effective Diameter Range |     |         |     | Qty |
|----------|--------------------------|-----|---------|-----|-----|
|          | Minimum                  |     | Maximum |     |     |
|          | inch                     | mm  | inch    | mm  |     |
| HTM-175L | 1                        | 25  | 1-3/4   | 45  | 5   |
| HTM-200L | 1-1/4                    | 32  | 2-1/8   | 54  | 5   |
| HTM-250L | 1-3/4                    | 45  | 2-5/8   | 67  | 5   |
| HTM-300L | 2-1/4                    | 57  | 3-1/8   | 79  | 5   |
| HTM-350L | 2-3/4                    | 70  | 3-5/8   | 92  | 5   |
| HTM-400L | 3-1/4                    | 83  | 4-1/8   | 105 | 5   |
| HTM-450L | 3-3/4                    | 95  | 4-5/8   | 118 | 5   |
| HTM-500L | 4-1/4                    | 108 | 5-1/8   | 130 | 5   |
| HTM-600L | 5-1/4                    | 133 | 6-1/8   | 156 | 5   |
| HTM-650L | 5-3/4                    | 146 | 6-5/8   | 168 | 5   |
| HTM-700L | 6-1/4                    | 159 | 7-1/8   | 181 | 5   |
| HTM-800L | 7-1/4                    | 184 | 8-1/8   | 206 | 5   |
| HTM-900L | 8-1/4                    | 210 | 9-1/8   | 232 | 5   |

### T-Bolt Clamps (R09)

#### SAE Standard J1508 Type "TB"

- 300 Series stainless steel band; plated steel T-Bolt and locknut.
- Superior welded construction.
- Meets SAE Specification J1508.
- For industrial, automotive and fleet applications.
- Recommended torque: 75 in./lbs.
- 3/4" (19 mm) band for superior coverage.
- Floating bridge for equalized clamp load.
- Hex Size: 7/16 WAF



| IBS No. | SAE Size | Effective Diameter Range |       |         |       | Qty |
|---------|----------|--------------------------|-------|---------|-------|-----|
|         |          | Minimum                  |       | Maximum |       |     |
|         |          | inch                     | mm    | inch    | mm    |     |
| 60175   | 28       | 1.75                     | 44.5  | 2.00    | 50.8  | 5   |
| 60200   | 36       | 2.00                     | 50.8  | 2.31    | 58.7  | 5   |
| 60225   | 44       | 2.25                     | 57.2  | 2.56    | 65.1  | 5   |
| 60250   | 52       | 2.50                     | 63.5  | 2.8     | 71.4  | 5   |
| 60275   | 60       | 2.75                     | 69.9  | 3.06    | 77.8  | 5   |
| 60300   | 68       | 3.00                     | 76.2  | 3.31    | 84.1  | 5   |
| 60325   | 76       | 3.25                     | 82.6  | 3.56    | 90.5  | 5   |
| 60350   | 84       | 3.50                     | 88.9  | 3.81    | 96.8  | 5   |
| 60375   | 92       | 3.75                     | 95.3  | 4.06    | 103.2 | 5   |
| 60400   | 100      | 4.00                     | 101.6 | 4.31    | 109.5 | 5   |
| 60425   | 108      | 4.25                     | 108.0 | 4.56    | 115.9 | 5   |
| 60450   | 116      | 4.50                     | 114.3 | 4.81    | 122.2 | 5   |
| 60475   | 124      | 4.75                     | 120.7 | 5.06    | 128.6 | 5   |
| 60500   | 132      | 5.00                     | 127.0 | 5.31    | 134.9 | 3   |
| 60525   | 140      | 5.25                     | 133.4 | 5.56    | 141.3 | 3   |
| 60550   | 148      | 5.50                     | 139.7 | 5.81    | 147.6 | 3   |
| 60575   | 156      | 5.75                     | 146.1 | 6.06    | 154.0 | 3   |
| 60600   | 164      | 6.00                     | 152.4 | 6.31    | 160.3 | 3   |
| 60625   | 172      | 6.25                     | 158.8 | 6.56    | 166.7 | 3   |
| 60650   | 180      | 6.50                     | 165.1 | 6.81    | 173.0 | 3   |
| 60675   | 188      | 6.75                     | 171.5 | 7.6     | 179.4 | 3   |
| 60700   | 196      | 7.00                     | 177.8 | 7.31    | 185.7 | 1   |
| 60725   | 204      | 7.25                     | 184.2 | 7.56    | 192.1 | 1   |
| 60750   | 212      | 7.50                     | 190.5 | 7.81    | 198.4 | 1   |
| 60775   | 220      | 7.75                     | 196.9 | 8.06    | 204.8 | 1   |

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## T-Bolt & Band-It Center Punch Clamps R07 & R09

### #28 Thru #100 T-Bolt Hose Clamps (R09)

**IBS No. 220TB**  
5 Sizes • 14 Pieces



| IBS No. | Description                       |
|---------|-----------------------------------|
| 60175   | 1-3/4 - 2 T-BOLT HOSE CLAMP       |
| 60250   | 2-1/2 - 2-13/16 T-BOLT HOSE CLAMP |
| 60300   | 3 - 3-5/16 T-BOLT HOSE CLAMP      |
| 60350   | 3-1/2 - 3-13/16 T-BOLT HOSE CLAMP |
| 60400   | 4 - 4-5/16 T-BOLT HOSE CLAMP      |

### Center Punch Galvanized Band-It Clamps (R07)

Band style clamps are an effective way of retaining hose couplings in industrial hose (often used for hose repair and assembly). While there are a number of preferred clamping systems available, the Center Punch Clamp is the most economical and popular for its ease of use.

- Locks with impact from a hammer using a conical punch.
- Double wrapped using galvanized carbon steel.
- Not recommended for use with fittings that may crack as a result of impact.
- Install Center Punch clamping systems with Center Punch Band-It Clamp Light Duty Hand Tool (IBS No. 60150)



| IBS No. | Width |      | Inside Diam. |     | Qty |
|---------|-------|------|--------------|-----|-----|
|         | inch  | mm   | inch         | mm  |     |
| 60151   | 3/8   | 9.6  | 13/16        | 20  | 10  |
| 60152   | 3/8   | 9.6  | 1-3/8        | 35  | 10  |
| 60153   | 5/8   | 15.9 | 1            | 25  | 10  |
| 60154   | 5/8   | 15.9 | 1-1/4        | 32  | 10  |
| 60155   | 5/8   | 15.9 | 1-1/2        | 38  | 10  |
| 60156   | 5/8   | 15.9 | 1-3/4        | 44  | 10  |
| 60157   | 5/8   | 15.9 | 2            | 51  | 10  |
| 60158   | 5/8   | 15.9 | 2-1/4        | 57  | 10  |
| 60159   | 5/8   | 15.9 | 2-1/2        | 64  | 10  |
| 60160   | 5/8   | 15.9 | 2-3/4        | 70  | 10  |
| 60161   | 5/8   | 15.9 | 3            | 76  | 10  |
| 60162   | 5/8   | 15.9 | 3-1/2        | 89  | 10  |
| 60163   | 5/8   | 15.9 | 4            | 102 | 5   |
| 60164   | 5/8   | 15.9 | 4-1/2        | 114 | 5   |
| 60165   | 5/8   | 15.9 | 5            | 127 | 5   |
| 60166   | 5/8   | 15.9 | 6            | 152 | 5   |

### Band-It Clamps (R07)

**IBS No. 122P**  
10 Sizes • 50 Pieces  
Storage Rack Included



| IBS No. | Width |      | Inside Diam. |    |
|---------|-------|------|--------------|----|
|         | inch  | mm   | inch         | mm |
| 60151   | 3/8   | 9.6  | 13/16        | 20 |
| 60152   | 3/8   | 9.6  | 1-3/8        | 35 |
| 60153   | 5/8   | 15.9 | 1            | 25 |
| 60154   | 5/8   | 15.9 | 1-1/4        | 32 |
| 60155   | 5/8   | 15.9 | 1-1/2        | 38 |
| 60156   | 5/8   | 15.9 | 1-3/4        | 44 |
| 60157   | 5/8   | 15.9 | 2            | 51 |
| 60158   | 5/8   | 15.9 | 2-1/4        | 57 |
| 60159   | 5/8   | 15.9 | 2-1/2        | 64 |
| 60160   | 5/8   | 15.9 | 2-3/4        | 70 |

### Band-It Clamps (R07)

**IBS No. 222P**  
5 Sizes • 25 Pieces  
Storage Rack Included



| IBS No. | Width |      | Inside Diam. |     |
|---------|-------|------|--------------|-----|
|         | inch  | mm   | inch         | mm  |
| 60161   | 5/8   | 15.9 | 3            | 76  |
| 60162   | 5/8   | 15.9 | 3-1/2        | 89  |
| 60163   | 5/8   | 15.9 | 4            | 102 |
| 60164   | 5/8   | 15.9 | 4-1/2        | 114 |
| 60165   | 5/8   | 15.9 | 5            | 127 |

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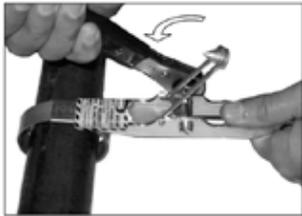
### CENTER PUNCH BAND-IT CLAMP LIGHT DUTY HAND TOOL

| IBS No. | Description                                     | Qty |
|---------|---|-----|
| 60150   | Center Punch Band-It Clamp Light Duty Hand Tool | 1   |

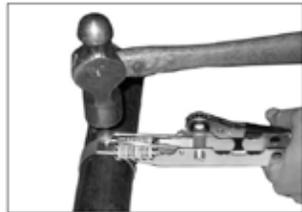
### BAND-IT Center Punch Clamps Light Duty Hand Tool Instructions



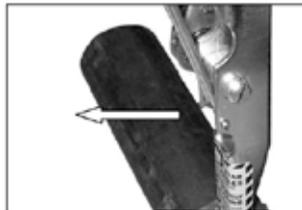
1. Tool is designed specifically for 3/8" and 5/8" center punch clamps only. Insert clamp in tool and then insert wrench assembly. If you prefer, install wrench assembly before clamp is inserted. Slot must be aligned with clamp tail.



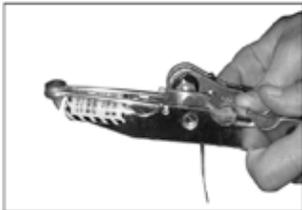
2. Start "pumping ratchet wrench forward until proper tension has been applied.



3. Place punch on clamp and while holding tension with ratchet wrench, lock clamp by striking punch once or more with hammer, depending on object being clamped.



4. While holding tension with wrench, pivot tool up against buckle, then backward several times to break off clamp tail.



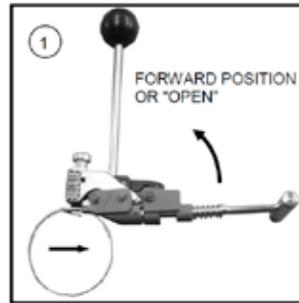
5. To loosen clamp tail, wind ratchet wrench until tail is free. Remove ratchet wrench assembly and clamp tail.



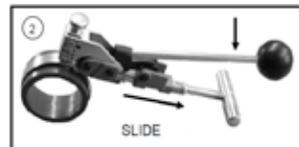
### CENTER PUNCH BAND-IT CLAMP HEAVY DUTY HAND TOOL

| IBS No. | Description  | Qty |
|---------|--|-----|
| 60149   | Center Punch Band-It Clamp T300 Heavy Duty Hand Tool | 1   |

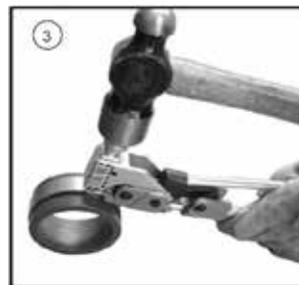
### BAND-IT Center Punch Clamps Heavy Duty Hand Tool Instructions



1. Push tension handle all the way forward. Insert BAND-IT Center punch clamp tail and push all the way into tool.



2. Tighten the clamp with short downward strokes. Tension handle should be in down position at completion of tightening clamp.



3. Holding tension down, lock clamp by hitting punch at least twice with a 2 lb. mallet.



4. Hold work-piece and pivot the tool back and forth to break off clamp tail. Remove tail from tool by operating tension handle. When tail has moved through holding dog, raise tension handle and pull tail free.



### Two Ear Hose Clamps

Two-Ear Hose Clamps (aka Oetiker Clamps) are widely used in maintenance as well as OEM applications.

- One-piece design offers a positive, tamper-proof seal without damaging the hose.
- Assures adequate closure and compensates for tolerance variations in hose sizes.
- Ideal for industrial use and heavily vibrating equipment.
- Suitable for low and medium pressure hydraulic air, fluid, gas and stem lines.
- Easy to apply — slide on and crimp.
- Zinc plated steel.

| IBS No. | Size   | Ref No. | Effective Diameter Range |      |        |       | Qty |
|---------|--------|---------|--------------------------|------|--------|-------|-----|
|         |        |         | mm                       |      | inches |       |     |
|         |        |         | Closed                   | Open | Closed | Open  |     |
| 60041   | 5/32   | 41      | 3.1                      | 4.1  | .122   | .161  | 5   |
| 60305   | 3/16   | 50      | 3.4                      | 5.0  | .134   | .197  | 5   |
| 60507   | 1/4    | 70      | 5.0                      | 7.0  | .197   | .276  | 5   |
| 60709   | 5/16   | 90      | 7.0                      | 9.0  | .276   | .354  | 5   |
| 60811   | 3/8    | 110     | 8.1                      | 11.0 | .319   | .433  | 5   |
| 61113   | 1/2    | 130     | 10.8                     | 13.0 | .425   | .512  | 5   |
| 61315   | 9/16   | 150     | 12.5                     | 15.0 | .492   | .591  | 5   |
| 61518   | 5/8    | 180     | 15.0                     | 18.0 | .591   | .709  | 5   |
| 61720   | 3/4    | 200     | 16.2                     | 20.0 | .638   | .787  | 5   |
| 62023   | 7/8    | 230     | 19.0                     | 23.0 | .748   | .906  | 5   |
| 62327   | 1      | 270     | 22.5                     | 27.0 | .886   | 1.063 | 5   |
| 62831   | 1-1/8  | 310     | 27.0                     | 31.0 | 1.063  | 1.220 | 5   |
| 63134   | 1-5/16 | 340     | 29.3                     | 34.0 | 1.154  | 1.339 | 5   |
| 63437   | 1-7/16 | 370     | 32.0                     | 37.0 | 1.260  | 1.457 | 5   |
| 63740   | 1-1/2  | 400     | 35.0                     | 40.0 | 1.378  | 1.575 | 5   |



### Ear Clamp Jaw Pincers (T03)

Ear Clamp Jaw Pincers are applied to the ears and closed with sufficient force to draw the lower radii together to a position where component compression is evident and the clamp ear assumes a symmetrical "omega" shaped formation.

- Sturdy construction.
- Cushion grips for better handling.
- Versatile tool — can install and remove pinch clamps.
- Easy to handle.

| IBS No. | Description                    | Qty |
|---------|--------------------------------|-----|
| 61098   | Ear Clamp Standard Jaw Pincers | 1   |
| 61099   | Ear Clamp Side Jaw Pincers     | 1   |

### Two Ear Hose Clamp Assortment (Z02)

IBS No. 756R • 16 Items • 76 Tools

**Two-Ear Hose Clamps**

Assortment No. 756R

|   |   |  |   |  |   |
|---|---|--|---|--|---|
| <p>60041<br/>5/32 TWO-EAR CLAMP<br/>.122-.161</p> | <p>60305<br/>3/16 TWO-EAR CLAMP<br/>.134-.197</p> | <p>60507<br/>1/4 TWO-EAR CLAMP<br/>.197-.276</p> | <p>60709<br/>5/16 TWO-EAR CLAMP<br/>.276-.354</p> | <p>60811<br/>3/8 TWO-EAR CLAMP<br/>.319-.433</p> | <p>61098<br/>EAR CLAMP STANDARD JAW PINCERS CRIMPER</p> |
| <p>61113<br/>1/2 TWO-EAR CLAMP<br/>.425-.512</p>  | <p>61315<br/>9/16 TWO-EAR CLAMP<br/>.492-.591</p> | <p>61518<br/>5/8 TWO-EAR CLAMP<br/>.591-.709</p> | <p>61720<br/>3/4 TWO-EAR CLAMP<br/>.638-.787</p>  | <p>62023<br/>7/8 TWO-EAR CLAMP<br/>.748-.906</p> |   |
| <p>62327<br/>1" TWO-EAR CLAMP.886-1.063</p>       | <p>62831<br/>1-1/8 TWO-EAR CLAMP</p>              | <p>63134<br/>1-5/16 TWO-EAR CLAMP</p>            | <p>63437<br/>1-7/16 TWO-EAR CLAMP</p>             | <p>63740<br/>1-1/2 TWO-EAR CLAMP</p>             |   |

H O S E C L A M P S



# IBS, INCORPORATED

## Economy Hose Clamps R06

### Economy Clamps

Ideal 67-1 Series

- 1/2" band clamps are suitable for most common home and automotive applications.
- Screw: 5/16" hex head (Mini #67004 & #67008 1/4" hex head), 410 stainless steel. Band & housing: 1/2" design, 201/301 stainless steel



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| IBS No. | Clamp No. | Effective Diameter Range |    |         |    | Qty |
|---------|-----------|--------------------------|----|---------|----|-----|
|         |           | Minimum                  |    | Maximum |    |     |
|         |           | inch                     | mm | inch    | mm |     |

#### MINI AUTOMOTIVE HOSE CLAMPS (5/16" Band)

|       |     |      |   |     |    |    |
|-------|-----|------|---|-----|----|----|
| 67004 | #04 | 1/4  | 6 | 5/8 | 16 | 10 |
| 67008 | #06 | 5/16 | 8 | 7/8 | 22 | 10 |

#### REGULAR AUTOMOTIVE HOSE CLAMPS

|      |     |       |    |        |    |    |
|------|-----|-------|----|--------|----|----|
| 6706 | #06 | 3/8   | 10 | 7/8    | 22 | 10 |
| 6710 | #10 | 1/2   | 13 | 1-1/16 | 27 | 10 |
| 6712 | #12 | 1/2   | 13 | 1-1/4  | 32 | 10 |
| 6716 | #16 | 11/16 | 18 | 1-1/2  | 38 | 10 |
| 6720 | #20 | 3/4   | 19 | 1-3/4  | 44 | 10 |
| 6724 | #24 | 1     | 25 | 2      | 51 | 10 |
| 6728 | #28 | 1-1/4 | 32 | 2-1/4  | 57 | 10 |
| 6732 | #32 | 1-1/2 | 38 | 2-1/2  | 63 | 10 |
| 6736 | #36 | 1-3/4 | 44 | 2-3/4  | 70 | 10 |

### Economy Clamp Assortment (Z08)

IBS No. 262R • 10 SIZES • 100 PIECES

- STORAGE RACK INCLUDED



| IBS No. | Clamp No. | Qty | IBS No. | Clamp No. | Qty |
|---------|-----------|-----|---------|-----------|-----|
| 67004   | #04       | 10  | 6716    | #16       | 10  |
| 67008   | #06       | 10  | 6720    | #20       | 10  |
| 6706    | #06       | 10  | 6728    | #28       | 10  |
| 6710    | #10       | 10  | 6732    | #32       | 10  |
| 6712    | #12       | 10  | 6736    | #36       | 10  |



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# IBS, INCORPORATED

## Air Line Accessories V03

### Coupler Interchange

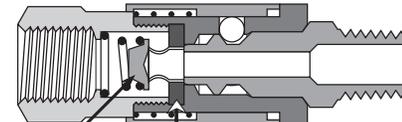
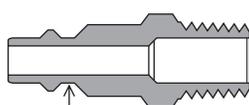
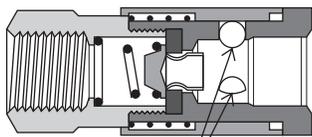
| IBS    | ARO        | Auto   | Camel  | Coilhose | Foster | Hansen    | Milton | Parker | Schrader | Tomco |
|--------|------------|--------|--------|----------|--------|-----------|--------|--------|----------|-------|
| C1     | TFCM22     | 13-124 | 61-254 | 162      | TF3103 | —         | 786    | 12     | 3503     |       |
| C1-03  | TFCM23-000 | C1-03  | C1-03  | 165      | TF3303 | B21QS-37M | —      | B12E   | C1-03    | 2182  |
| C2     | TFCF22     | 13-134 | 61-523 | 160      | TF3003 | —         | 785    | 13     | 3504     |       |
| C2-23  | TFCF23-000 | C2-23  | C2-23  | 161      | TF3203 | B21QS-37F | —      | B13E   | C2-23    | 2185  |
| C2-44  | TFCH23-000 | C2-44  | C2-44  | 166      | TF3703 | B21Q-37H  | 786-6  | B10-58 | C2-44    | 2188  |
| C20-42 | 23102-22   | C20-42 | C20-42 | 153      | 3603   | 1600      | 717    | B20-3B | C20-42   | 186   |
| C20-44 | 23102-24   | C20-24 | C20-44 | 156      | 3703   | 1700      | 717-6  | B20-5B | C20-44   | 187   |
| C25-02 | 23102-12   | C25-02 | C25-02 | 583A     | 4104   | 410       | —      | 24C    | C25-02   | T410  |
| C5     | —          | 13-604 | 61-554 | 591      | TF4304 | —         | 1806   | 14     | 3515     |       |
| C6     | —          | 13-612 | 61-553 | 590      | TF4204 | —         | 1805   | 15     | 3516     |       |
| C7     | —          | 13-602 | 61-478 | 593      | TF4104 | —         | —      | 14C    | —        |       |
| C8     | —          | 13-610 | 61-476 | 592      | TF4004 | —         | 1803   | 15C    | 3521     |       |
| C9     | —          | 13-704 | 61-564 | 122      | 5305   | 530       | 1816   | 16     | 3511     |       |
| C10    | —          | 13-712 | 61-563 | 120      | 5205   | 520       | 1815   | 17     | 3512     |       |
| C20    | 23102-200  | 13-234 | 61-573 | 150      | 3003   | 3000      | 715    | 23     | 5142-12  |       |
| C20-23 | 23102-3    | —      | 61-103 | 151      | 3203   | 3200      | 718    | —      | 5263-12  |       |
| C21    | 23102-212  | 13-224 | 61-574 | 152      | 3103   | 3100      | 716    | 22     | 5141-12  |       |
| C21-03 | 23102-213  | —      | 61-101 | 155      | 3303   | 3300      | 719    | —      | 5140-12  |       |
| C25    | 23103-313  | 13-526 | 61-483 | 581      | 4304   | 4300      | 1836   | 24     | —        |       |
| C26    | 23103-300  | 13-536 | 61-482 | 580      | 4204   | 4200      | 1835   | 25     | 3541     |       |
| C27    | —          | 13-424 | 61-486 | —        | LN3103 | —         | 790    | 72     | —        |       |
| C28    | —          | 13-434 | 61-548 | 170      | LN3003 | —         | —      | 73     | 3528     |       |
| C37    | —          | 13-324 | 61-527 | 142      | —      | —         | —      | 52     | 3525     |       |
| C38    | —          | 13-334 | 61-526 | 140      | —      | —         | —      | 53     | 3526     |       |

### Couplers & Plugs

COUPLER

PLUG

CONNECTED



Locking Balls Groove

Seal

- Quick disconnect couplers are the fastest, easiest and most reliable means of joining pneumatic and fluid transfer lines. All quick disconnect couplers work on the same principle:
- Hardened balls or pins engage a groove in the coupler plug to hold it securely against a soft seal while permitting the assembly to swivel, thereby preventing kinking or twisting of hoses.

- A sliding sleeve releases the locking balls when retracted, permitting the plug to be inserted or removed. The sleeve automatically returns to the locked position when released.
- An automatic shutoff valve in the coupler seals instantly upon uncoupling, eliminating the need for a separate shutoff.

AIR LINE FITTINGS



### Coupler Plug Interchange

| IBS     | ARO        | Auto    | Camel   | Coilhose | Foster | Hansen   | Milton | Parker | Schrader | Tomco |
|---------|------------|---------|---------|----------|--------|----------|--------|--------|----------|-------|
| CP1     | TFPM22     | 12-124  | 61-538  | 1601     | TF10   | —        | 783    | 2C     | 3506     |       |
| CP1-03  | TFPM23     | —       | 61-150  | —        | TF14   | —        | —      | 2C-E   | —        |       |
| CP2     | TFPF22     | 12-134  | 61-539  | 1602     | TF11   | —        | 4784   | 3C     | 3507     |       |
| CP1-42  | TFPH22-000 | CP1-42  | CP1-42  | 1606     | TF16   | 21AP-25H | 783-4  | 8C     | CP1-42   | 2164  |
| CP1-44  | TFPH23-000 | CP1-44  | CP1-44  | 1608     | TF17   | 21AP37H  | 783-6  | 9C     | CP1-44   | 2166  |
| CP17-03 | 23904-10   | CP17-03 | CP17-03 | 120A     | 52-5   | 52       | 1859   | HOF    | CP17-03  | T52   |
| CP2-23  | TFPF23     | —       | —       | —        | TF-15  | —        | —      | 3C-E   | —        |       |
| CP21-42 | 23902-220  | CP21-42 | CP21-42 | 1506     | 16-3   | 16       | 736    | H8C    | CP21-42  | 1824  |
| CP21-44 | 23902-420  | CP21-44 | CP21-44 | 1508     | 17-3   | 17       | 736-6  | H9C    | CP21-44  | 1826  |
| CP25-02 | 23903-210  | CP25-02 | CP25-02 | 5803     | 40-4   | 40       | 1839   | HOE    | CP25-02  | T40   |
| CP25-44 | 23903-420  | CP25-44 | CP25-44 | 5806     | 48-4   | 406      | 1837-6 | H5E    | CP25-44  | T48   |
| CP26-22 | 23903-300  | CP26-22 | CP26-22 | 5804     | 43-4   | 43       | 1838   | H3E    | CP26-22  | T41   |
| CP5     | —          | 12-604  | 61-558  | 5901     | TF42   | —        | 107    | 2E     | 3517     |       |
| CP6     | —          | 12-612  | 61-559  | 5902     | TF43   | —        | 1808   | 3E     | 3518     |       |
| CP7     | —          | 12-602  | 61-480  | 5903     | TF40   | —        | 1809   | 0E     | 3519     |       |
| CP8     | —          | 12-610  | 61-481  | 5904     | TF41   | —        | 1810   | 1E     | 3520     |       |
| CP10    | —          | 12-712  | 61-569  | —        | 55-5   | 55       | 1818   | 3F     | 3514     |       |
| CP17    | 23904-410  | 12-752  | 61-134  | 1201     | 54-5   | 54       | 1857   | H2F    | —        |       |
| CP20    | 23902-200  | 12-234  | 61-579  | 1502     | 11-3   | 11       | 728    | H3C    | 5319-11  |       |
| CP20-23 | 23902-3    | 12-236  | 61-107  | 1505     | 15-3   | 15       | 732    | H3C-E  | 5263-11  |       |
| CP21    | 23902-210  | 12-224  | 61-578  | 1501     | 10-3   | 10       | 727    | H2C    | 5138-11  |       |
| CP21-03 | 23902-310  | 12-226  | 61-535  | 1503     | 14-3   | 14       | 733    | H2C-E  | —        |       |
| CP25    | 23903-310  | 12-526  | 61-484  | 5801     | 42-4   | 42       | 1837   | H2E    | 3542     |       |
| CP26    | 23903-300  | 12-536  | 61-485  | 5802     | 43-4   | 43       | 1838   | H3E    | 3543     |       |
| CP27    | —          | 12-424  | 61-550  | 1701     | LN11   | —        | 791    | L2C    | 3531     |       |
| CP28    | —          | 12-434  | 61-551  | 1702     | LN10   | —        | 792    | L3C    | 3532     |       |
| CP37    | 2608       | 12-324  | 61-528  | 1401     | 210-10 | 1G3      | 777    | A2C    | 3529     |       |
| CP-3703 | 22236      | CP37-03 | CP37-03 | —        | —      | 20AP-37M | —      | —      | CP37-03  |       |
| CP38    | 2609       | 12-334  | 61-529  | 1402     | 210-11 | 1G2      | 778    | A3C    | 3530     |       |

AIR LINE FITTINGS

### Features & Benefits

#### Long Service Life

- Zinc plated to provide a non-corrosive finish.
- Heat treated to harden critical wear points.
- Molded Buna-n seals create a leak proof connection.

#### Variety of Sizes and Styles

- Available in 1/4", 3/8", and 1/2" bodies with male and female pipe threads, or hose barb ends.

#### Efficient Performance

- Tubular valve design provides high flow rates.
- Steel locking balls ensure connection holds tight under the most rugged applications.
- Spring loaded sliding outer sleeve allow quick connect/disconnect.

#### Interchangeability

- Fully interchangeable with couplers and plugs made by other manufacturers. ( See accompanying interchange chart.)



## Prevost One-Touch Safety Push Button Air Couplers

**Ergonomically designed for long lasting comfort**

The Prevost One-Touch Safety Push Button Air Coupling meets the top level of quality standards required in the professional industry for quick and effortless coupling.

- **One push control** to decompress the system and disconnect in complete safety: eliminates hose whip to protect the user, surrounding tools and equipment.
- **Silicone free** manufacturing: avoids the risk of contaminating compressed air during the paint or varnish applications which can cause surface imperfections.
- **Functionally designed** to allow a natural grip and easy handling.
- **Composite body material:** anti-scratch body material also allows user to create a firm grip on the coupling.
- **Compact and lightweight** coupling for maximum user comfort when handling repetitively. Provides accuracy and increases work station efficiency.
- Resistant to abrasion, vibrations, corrosion, impacts and crushing: **reinforced composite body** is capable of withstanding the harsh conditions frequently found in production environments.
- **Color coded buttons** make the selection of profiles easy to identify: this system reduces the risk of connection errors which may cause damages or accidents.



**INDUSTRIAL - MALE NPT COUPLERS**

| IBS No. | Body Size | Thread Size | Qty |
|---------|-----------|-------------|-----|
| 137714  | 1/4       | 1/4 NPT     | 1   |



**AUTOMOTIVE - MALE NPT COUPLERS**

| IBS No. | Body Size | Thread Size | Qty |
|---------|-----------|-------------|-----|
| 137710  | 1/4       | 1/4 NPT     | 1   |



**INDUSTRIAL - FEMALE NPT COUPLERS**

| IBS No. | Body Size | Thread Size | Qty |
|---------|-----------|-------------|-----|
| 137715  | 1/4       | 1/4 NPT     | 1   |
| 137717  | 3/8       | 3/8 NPT     | 1   |
| 137770  | 1/2       | 3/8 NPT     | 1   |
| 137771  | 1/2       | 1/2 NPT     | 1   |



**AUTOMOTIVE - FEMALE NPT COUPLERS**

| IBS No. | Body Size | Thread Size | Qty |
|---------|-----------|-------------|-----|
| 137711  | 1/4       | 1/4 NPT     | 1   |
| 137713  | 3/8       | 3/8 NPT     | 1   |
| 137772  | 1/2       | 3/8 NPT     | 1   |
| 137773  | 1/2       | 1/2 NPT     | 1   |



**INDUSTRIAL - BARB COUPLERS**

| IBS No. | Body Size | Thread Size   | Qty |
|---------|-----------|---------------|-----|
| 137716  | 1/4       | 3/8 HOSE BARB | 1   |



**AUTOMOTIVE - BARB COUPLERS**

| IBS No. | Body Size | Thread Size   | Qty |
|---------|-----------|---------------|-----|
| 137712  | 1/4       | 3/8 HOSE BARB | 1   |

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## Air Line Accessories V03

### Industrial Interchange Series

#### Plated steel couplers with hardened steel springs

WARNING: Couplers and plugs on these pages are intended for use on compressed air lines only. All have a maximum rated working pressure of 300 PSI.



**MALE COUPLERS**



**FEMALE COUPLERS**



**BARBED COUPLERS**

| NPT End  | Body Size |        |      | Qty |
|----------|-----------|--------|------|-----|
| Male     | 1/4"      | 3/8"   | 1/2" |     |
| 1/4" MPT | C21       | C25-02 |      | 5   |
| 3/8" MPT | C21-03    | C25    |      | 5   |
| 1/2" MPT |           |        | C9*  | 5   |

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Female   | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | C20       |      |      | 5   |
| 3/8" FPT | C20-23    | C26  |      | 5   |
| 1/2" FPT |           |      | C10* | 5   |

| NPT End     | Body Size |      |      | Qty |
|-------------|-----------|------|------|-----|
| Barbed      | 1/4"      | 3/8" | 1/2" |     |
| 1/4" Barbed | C20-42    |      |      | 5   |
| 3/8" Barbed | C20-44    |      |      | 5   |

\* 1/2" Coupler is interchangeable with Industrial Interchange and Automotive Standard Series



**MALE PLUGS**



**FEMALE PLUGS**



**BARBED PLUGS**

| NPT End  | Body Size |         |         | Qty |
|----------|-----------|---------|---------|-----|
| Male     | 1/4"      | 3/8"    | 1/2"    |     |
| 1/4" MPT | CP21      | CP25-02 |         | 5   |
| 3/8" MPT | CP21-03   | CP25    | CP17-03 | 5   |
| 1/2" MPT |           |         | CP17    | 5   |

| NPT End  | Body Size |         |      | Qty |
|----------|-----------|---------|------|-----|
| Female   | 1/4"      | 3/8"    | 1/2" |     |
| 1/4" FPT | CP20      | CP26-22 |      | 5   |
| 3/8" FPT | CP20-23   | CP26    |      | 5   |
| 1/2" FPT |           |         | CP18 | 5   |

| NPT End   | Body Size |         |      | Qty |
|-----------|-----------|---------|------|-----|
| Barbed    | 1/4"      | 3/8"    | 1/2" |     |
| 1/4" Barb | CP21-42   |         |      | 5   |
| 3/8" Barb | CP21-44   | CP25-44 |      | 5   |

- Incorporates the features of an inline filter directly into the pneumatic connector or plug.
- Sintered-bronze filter element protects and extends tool life.
- Back pressure from tool automatically flushes filter.
- Ideal for pneumatic nailers, sanders, etc.

#### FILTER PLUG

| NPT End     | Body Size             |          |      | Qty |
|-------------|-----------------------|----------|------|-----|
| Filter Plug | 1/4"                  | 3/8"     | 1/2" |     |
| 1/4" MPT    | CP21F                 | CP25-02F |      | 5   |
| 3/8" MPT    | CP21-03F              | CP25F    |      | 5   |
| CPF-KIT     | Filtering Element Kit |          |      | 1   |



- Combines the features of ball swivel fitting & connectors
- Eliminates the need for an additional fitting.
- Provides an ergonomic & lightweight tool to hose connection.
- Connection and nut portion is nickel plated hardened steel and the threaded portion of the fitting is all brass.

#### BALL SWIVEL CONN

| NPT End Size | Body Size |          |      | Qty |
|--------------|-----------|----------|------|-----|
| Ball Swivel  | 1/4"      | 3/8"     | 1/2" |     |
| 1/4" FPT     | CP20S     |          |      | 5   |
| 1/4" MPT     | CP21S     | CP25-02S |      | 5   |
| 3/8" MPT     | CP21-03S  | CP25S    |      | 5   |



**Industrial Couplers, Plugs and Hose Repair Kit**  
**IBS No. 717R • 9 Items • 36 Pcs**  
**Packaged in a locking steel drawer for easy storage and organization**



**IBS, Inc.**  
SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR  
INDUSTRIALBOLT.COM • © • 800-678-1906

Industrial Couplers, Plugs and Hose Repair Kit

Assortment No. 717R

|   |   |   |  |
|---|---|---|--|
| <p style="font-size: x-small;">C20<br/>1/4 COUPLER 1/4 FPT</p>          | <p style="font-size: x-small;">VG-6<br/>VINYL GUARD FOR 3/8 AIR HOSE</p>        | <p style="font-size: x-small;">AM7328<br/>21/32 LD. FERRULE BRASS</p> | <p style="font-size: x-small;">11420<br/>HOSE &amp; TUBING CUTTER UP TO 1-1/4"</p> |
| <p style="font-size: x-small;">C21<br/>1/4 COUPLER 1/4 MPT</p>          | <p style="font-size: x-small;">10406B-106<br/>3/8 LONG BARB UNION</p>           |   |  |
| <p style="font-size: x-small;">CP20<br/>1/4 PLUG 1/4 FPT INDUSTRIAL</p> | <p style="font-size: x-small;">10806B-104<br/>5/8 X 1/4 M. LONG BARB H. END</p> |   |  |
| <p style="font-size: x-small;">CP21<br/>1/4 PLUG 1/4 MPT INDUSTRIAL</p> |   |   |  |



# IBS, INCORPORATED

## Air Line Accessories V03

### Automotive Standard Series

WARNING: Couplers and Plugs on these pages are intended for use on compressed air lines only. All have a maximum rated working pressure of 300 PSI.



#### MALE COUPLERS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" MPT | C1        | C7   |      | 5   |
| 3/8" MPT | C1-03     | C5   |      | 5   |
| 1/2" MPT |           |      | C9*  | 5   |



#### FEMALE COUPLERS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Female   | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | C2        | C8   |      | 5   |
| 3/8" FPT | C2-23     | C6   |      | 5   |
| 1/2" FPT |           |      | C10* | 5   |



#### BARBED COUPLERS

| NPT End   | Body Size |      |      | Qty |
|-----------|-----------|------|------|-----|
| Barbed    | 1/4"      | 3/8" | 1/2" |     |
| 1/4" Barb | C2-42     |      |      | 5   |
| 3/8" Barb | C2-44     |      |      | 5   |

\* 1/2" Coupler is interchangeable with Industrial Interchange and Automotive Standard Series



#### MALE PLUGS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" MPT | CP1       | CP7  |      | 5   |
| 3/8" MPT | CP1-03    | CP5  |      | 5   |
| 1/2" MPT |           |      | CP9  | 5   |



#### FEMALE PLUGS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Female   | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | CP2       | CP8  |      | 5   |
| 3/8" FPT | CP2-23    | CP6  |      | 5   |
| 1/2" FPT |           |      | CP10 | 5   |



#### BARBED PLUGS

| NPT End   | Body Size |      |      | Qty |
|-----------|-----------|------|------|-----|
| Barbed    | 1/4"      | 3/8" | 1/2" |     |
| 1/4" Barb | CP1-42    |      |      | 5   |
| 3/8" Barb | CP1-44    |      |      | 5   |

- Incorporates the features of an inline filter directly into the pneumatic connector or plug.
- Sintered-bronze filter element protects and extends tool life.
- Back pressure from tool automatically flushes filter.
- Ideal for pneumatic nailers, sanders, etc.

#### FILTER PLUG

| NPT End     | Body Size |  | Qty |
|-------------|-----------|--|-----|
| Filter Plug | 1/4"      |  |     |
| 1/4" MPT    | CP1F      |  | 5   |



- Combines the features of ball swivel fitting & connectors
- Eliminates the need for an additional fitting.
- Provides an ergonomic & lightweight tool to hose connection.
- Connection and nut portion is nickel plated hardened steel and the threaded portion of the fitting is all brass.

#### BALL SWIVEL CONN

| NPT End     | Body Size |      | Qty |
|-------------|-----------|------|-----|
| Ball Swivel | 1/4"      | 3/8" |     |
| 1/4" FPT    | CP2S      |      | 5   |
| 1/4" MPT    | CP1S      | CP7S | 5   |
| 3/8" MPT    | CP1-03S   | CP5S | 5   |



### Automotive Couplers, Plugs and Hose Repair Kit

IBS No. 719R • 9 Items • 36

Pcs

Packaged in a locking steel drawer for easy storage and organization



#### Automotive Couplers, Plugs and Hose Repair Kit

Assortment No. 719R

|                                    |   |  |   |
|------------------------------------|---|--|---|
| C2<br>1/4 COUPLER 1/4 FPT AUTO<br> | VG-6<br>VINYL GUARD FOR 3/8 AIR HOSE<br>        | AM7328<br>21/32 I.D. FERRULE BRASS<br> | 11420<br>HOSE & TUBING CUTTER UP TO 1-1/4<br> |
| C1<br>1/4 COUPLER 1/4 MPT AUTO<br> |   | 10406B-106<br>3/8 LONG BARB UNION<br>  |   |
| CP2<br>1/4 PLUG 1/4 FPT AUTO<br>   | 10506B-104<br>3/8 X 1/4 M. LONG BARB H. END<br> |  |   |
| CP1<br>1/4 PLUG 1/4 MPT AUTO<br>   |   |  |   |



### The ARO Series

This series of couplers and connectors is engineered to interchange with ARO design as well as similar designs of other manufacturers.

#### FEMALE COUPLERS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Female   | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | C38       |      |      | 5   |



#### MALE COUPLERS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" MPT | C37       |      |      | 5   |



#### FEMALE PLUGS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | CP38      |      |      | 5   |



#### MALE PLUGS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" MPT | CP37      |      |      | 5   |



- Incorporates the features of an inline filter directly into the pneumatic connector or plug.
- Sintered-bronze filter element protects and extends tool life.
- Back pressure from tool automatically flushes filter.
- Ideal for pneumatic nailers, sanders, etc.

#### FILTER PLUG

| NPT End     | Body Size             |      |      | Qty |
|-------------|-----------------------|------|------|-----|
| Filter Plug | 1/4"                  | 3/8" | 1/2" |     |
| 1/4" MPT    | CP37F                 |      |      | 5   |
| 3/8" MPT    | CP38F                 |      |      | 5   |
| CPF-KIT     | Filtering Element Kit |      |      | 1   |



- Combines the features of ball swivel fitting & connectors
- Eliminates the need for an additional fitting.
- Provides an ergonomic & lightweight tool to hose connection.
- Connection and nut portion is nickel plated hardened steel and the threaded portion of the fitting is all brass.

#### BALL SWIVEL CONN

| NPT End     | Body Size |      |      | Qty |
|-------------|-----------|------|------|-----|
| Ball Swivel | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT    | CP38S     |      |      | 5   |
| 1/4" MPT    | CP37S     |      |      | 5   |
| 3/8" MPT    | CP37-03S  |      |      | 5   |



### Hi-Flo Couplers & Plugs

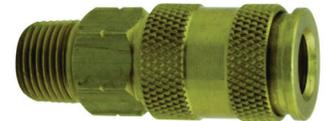
Hi-Flo series couplers and plugs are engineered to allow twice the flow of comparably-sized standard couplers and plugs. The flow rates on the 1/4" size are greater than many 3/8" body size couplers. Increased air flow results in greater tool efficiency and decreased air costs.

Ideal for High Volume and Low Pressure applications such as drills, grinders, sprayers and impact guns.

- Hi-Flo couplers will accept INDUSTRIAL and ARO style plugs — however to retain maximum flow, use Hi-Flo style plugs.
- Maximum inlet pressure: 300 PSI
- Maximum temperature: 250°F
- Air Flow: 40 SCFM @ 100 PSI
- Seals: Buna-N

#### MALE COUPLERS

| NPT End  | Body Size | Qty |
|----------|-----------|-----|
| Male     | 1/4"      |     |
| 1/4" MPT | C91       | 5   |
| 3/8" MPT | C91-03    | 5   |



#### MALE PLUGS

| NPT End  | Body Size | Qty |
|----------|-----------|-----|
| Male     | 1/4"      |     |
| 1/4" MPT | CP91      | 5   |
| 3/8" MPT | CP91-03   | 5   |



#### FEMALE COUPLERS

| NPT End  | Body Size | Qty |
|----------|-----------|-----|
| Female   | 1/4"      |     |
| 1/4" FPT | C90       | 5   |
| 3/8" FPT | C90-23    | 5   |



#### FEMALE PLUGS

| NPT End  | Body Size | Qty |
|----------|-----------|-----|
| Female   | 1/4"      |     |
| 1/4" FPT | CP90      | 5   |
| 3/8" FPT | CP90-23   | 5   |



AIR LINE FITTINGS



# IBS, INCORPORATED

## Air Line Accessories V03

### Lincoln Interchange Series

Warning: Couplers and Plugs listed below are intended for use on compressed air lines only. All have a maximum rated working pressure of 250 PSI.



#### MALE COUPLERS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" MPT | C27       |      |      | 5   |



#### FEMALE COUPLERS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Female   | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | C28       |      |      | 5   |



#### MALE PLUGS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" MPT | CP27      |      |      | 5   |



#### FEMALE PLUGS

| NPT End  | Body Size |      |      | Qty |
|----------|-----------|------|------|-----|
| Male     | 1/4"      | 3/8" | 1/2" |     |
| 1/4" FPT | CP28      |      |      | 5   |

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### Universal Safety Couplers



- 5-in-1 coupler eliminates the guesswork and inconvenience of matching interchanges — fits Industrial, ARO, Automotive / Tru-Flate, Euro (Megaflo) and Lincoln 1/4," 3/8," & 1/2" series plugs.
- Designed to remain connected to the plug until the downstream air is completely bled off. Reduces the possibility of injury to personnel or damage to surrounding equipment from a whipping hose.
- Steel construction



#### MALE NPT COUPLER

| Body Size | Thread Size | IBS No. | Qty |
|-----------|-------------|---------|-----|
| 1/4       | 1/4-18      | 137720  | 1   |
|           | 3/8-18      | 137723  | 1   |
| 3/8       | 1/4-18      | 137726  | 1   |
|           | 3/8-18      | 137729  | 1   |
|           | 1/2-14      | 137732  | 1   |
| 1/2       | 3/8-18      | 137735  | 1   |
|           | 1/2-14      | 137738  | 1   |
|           | 3/4-14      | 137741  | 1   |



#### FEMALE NPT COUPLER

| Body Size | Thread Size | IBS No. | Qty |
|-----------|-------------|---------|-----|
| 1/4       | 1/4-18      | 137721  | 1   |
|           | 3/8-18      | 137724  | 1   |
| 3/8       | 1/4-18      | 137727  | 1   |
|           | 3/8-18      | 137730  | 1   |
|           | 1/2-14      | 137733  | 1   |
| 1/2       | 3/8-18      | 137736  | 1   |
|           | 1/2-14      | 137739  | 1   |
|           | 3/4-14      | 137742  | 1   |



#### HOSE BARB COUPLER

| Body Size | Hose Barb Size | IBS No. | Qty |
|-----------|----------------|---------|-----|
| 1/4       | 1/4            | 137722  | 1   |
|           | 3/8            | 137725  | 1   |
| 3/8       | 1/4            | 137728  | 1   |
|           | 3/8            | 137731  | 1   |
|           | 1/2            | 137734  | 1   |
| 1/2       | 3/8            | 137737  | 1   |
|           | 1/2            | 137740  | 1   |
|           | 3/4            | 137743  | 1   |



### Water Service Couplings

These water service couplings are ideal for use wherever water hoses are frequently connected and disconnected. They have a wide variety of applications which include garden hoses, wash down systems and mobile water tank lines.

- Valveless design permits maximum flow with minimum pressure drop.
- Brass and stainless steel construction for heavy duty service.
- Durable four ball locking mechanism for secure connections.
- Quality, temperature-resistant nitrile seals for a leak-free service life.



#### WATER SERVICE COUPLINGS

| IBS No. | Description    | Body Size | Thread Size | Qty |
|---------|----------------|-----------|-------------|-----|
| C1160   | Coupler        | 3/4"      | 3/4 -11-1/2 | 5   |
| CP1170  | Nipple         | 3/4"      | 3/4 -11-1/2 | 5   |
| CP1165  | Rubber Washers |           |             | 5   |

### Universal Airline Fittings

- Fits Industrial, Automotive, and ARO 1/4" series plugs.
- Brass construction for durability and long life.
- Durable four ball locking mechanism for secure connections.
- Unique design keeps locking ring cocked when uncoupled allowing for quick, easy coupling with plugs. Simply push the coupling onto the plug and the locking ring snaps into place for a secure connection.



#### UNIVERSAL AIRLINE FITTINGS

| IBS No. | Description | Qty |
|---------|-------------|-----|
| UC1     | Female NPT  | 5   |
| UC2     | Male NPT    | 5   |

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# IBS, INCORPORATED

## Air Line Accessories V03

### Flexeel® Reinforced Polyurethane Coiled Air Hose

Flexeel® is the original reinforced polyurethane self-storing hose. This extremely lightweight hose is extruded with an inner braid for additional strength, and this "integral piece" process eliminates the need of bonding individual layers of tubing, braiding and cover which tend to separate over time due to bending, flexing and pulsating. Flexeel® combines the durability of bulkier hoses with the kink resistance and elasticity of polyurethane to make a tough, long-lasting hose that is user-friendly.

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- Super flexible — 100% kink-proof Inner tube, braiding & outer cover will not separate
- Tight bend radius minimizes space requirements
- Rugged brass swivel fittings provide long life and minimal flow restrictions
- State-of-the-art strain relief system protects the hose and increases its maneuverability
- All swivel fittings include reusable thread sealant pre-applied at the factory
- Low tension retractability — minimizes user fatigue
- Abrasion resistant
- Soft Polyurethane material will not mar finishes
- Strong enough to repel most oils and chemicals
- 16" tail on the working (tool) end eliminates tangling of the tool coils
- 8" tail on the supply end makes the connection to the air source easy
- More durable and lighter weight than rubber hose — easy to handle
- Transparent yellow color



#### SPECIFICATIONS

##### Material:

- Inner Tube & Outer Cover — 85 Durometer Polyurethane
- Inner Braiding — Dacron Polyester
- Withstands 200 psi working pressure
- Factory applied thread sealant supplied on male swivel fitting
- Temperature Range: -40°F to 165°F

#### FLEXEEL REINFORCED POLYURETHANE COILED AIR HOSE with Reusable Strain Relief

| IBS No.                              | I.D. x O.D. x L  | FTG MPT | Working Pressure @ 70°F |
|--------------------------------------|------------------|---------|-------------------------|
| 130480                               | 1/4 x 3/8 x 10'  | 1/4 S   | 200 psi                 |
| 130481                               | 1/4 x 3/8 x 15'  | 1/4 S   | 200 psi                 |
| 130482                               | 1/4 x 3/8 x 25'  | 1/4 S   | 200 psi                 |
| <i>Coil O.D. = 1-3/4" S = Swivel</i> |                  |         |                         |
| 130484                               | 3/8 x 9/16 x 10' | 3/8 S   | 200 psi                 |
| 130485                               | 3/8 x 9/16 x 25' | 3/8 S   | 200 psi                 |
| <i>Coil O.D. = 2-7/8" S = Swivel</i> |                  |         |                         |



### Flexeel® Reinforced Polyurethane Air Hose

Flexeel® Polyurethane Reinforced Hose offers an excellent alternative to much bulkier rubber and plastic hoses. Extremely lightweight and tough, it is ideal for either outdoor contractor use or indoor industrial use. Flexeel® retains its flexibility even in cold environments. The reinforced construction eliminates the possibility of having the various layers separate due to constant expansion and contraction during pulsating operations, such as with staple or nail guns. Reusable strain relief fittings are included.

**Features:**

- Lightest hose available
- Contemporary looking state-of-the-art strain relief system allows the hose to bend freely without kinking
- In the field repairs can be made quickly and easily with commercially available hose barbs and clamps — no special kits or hard to find fittings are needed
- Lays out flat and can be coiled into a loop even in sub-zero conditions
- Extremely tough and abrasion resistant
- Braiding, inner tube and outer cover will not separate
- Withstands 200 PSI working pressure
- Temperature Range: - 40°F to 165°F
- Available in yellow



#### FLEXEEL REINFORCED POLYURETHANE AIR HOSE with Reusable Strain Relief

| IBS No. | I.D. x O.D. x L   | FTG MPT | Working Pressure @ 70°F |
|---------|-------------------|---------|-------------------------|
| 130490  | 1/4 x 3/8 x 25'   | 1/4     | 200 psi                 |
| 130491  | 1/4 x 3/8 x 50'   | 1/4     | 200 psi                 |
| 130492  | 1/4 x 3/8 x 100'  | 1/4     | 200 psi                 |
| 130493  | 3/8 x 9/16 x 25'  | 1/4     | 200 psi                 |
| 130494  | 3/8 x 9/16 x 50'  | 1/4     | 200 psi                 |
| 130495  | 3/8 x 9/16 x 100' | 1/4     | 200 psi                 |
| 130496  | 3/8 x 9/16 x 25'  | 3/8     | 200 psi                 |
| 130497  | 3/8 x 9/16 x 50'  | 3/8     | 200 psi                 |
| 130498  | 3/8 x 9/16 x 100' | 3/8     | 200 psi                 |



#### FLEXEEL REINFORCED POLYURETHANE AIR HOSE (BULK)

| IBS No. | I.D. x O.D. x L         | FTG IND | Working Pressure @ 70°F |
|---------|-------------------------|---------|-------------------------|
| 130500  | 1/4 x 3/8 x any length  | 1/4     | 200 psi                 |
| 130501  | 3/8 x 9/16 x any length | 3/8     | 200 psi                 |

#### Repair Fittings for Air Hose



#### REPAIR FITTINGS for Polyurethane Hose

| IBS No. | Description                          | Qty |
|---------|--------------------------------------|-----|
| 130788  | Splicer for 1/4" Air Hose            | 1   |
| 130789  | Splicer for 3/8" Air Hose            | 1   |
| 130790  | 1/4" NPT x 1/4" Hose Swivel / Strain | 1   |
| 130791  | 1/4" NPT x 3/8" Hose Swivel / Strain | 1   |
| 130792  | 3/8" NPT x 3/8" Hose Swivel / Strain | 1   |



- Shock absorbing whip hose
- Ball swivel provides additional range of motion
- Maximum working pressure @ 70°F: 200psi

#### FLEXEEL REINFORCED BALL SWIVEL LEAD IN HOSE

| IBS No. | FTG NPT | Hose ID | Hose Length | Working Pressure @ 70°F |
|---------|---------|---------|-------------|-------------------------|
| 130460  | 1/4     | 1/4     | 30"         | 200 psi                 |
| 130461  | 1/4     | 1/4     | 60"         | 200 psi                 |
| 130462  | 1/4     | 3/8     | 30"         | 200 psi                 |
| 130463  | 1/4     | 3/8     | 60"         | 200 psi                 |

AIR LINE FITTINGS



# IBS, INCORPORATED

## Air Line Accessories V03

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### Yellow Belly PVC Air Hose



#### High Visibility Hose with Male NPT Rigid Ends

Yellow Belly Hybrid PVC Air Hose is constructed of a lightweight yet durable hybrid PVC material, and offers an superior alternative to the traditional rubber air hose.

- Half the weight of traditional rubber hose makes it easier to work with.
- Stays flexible in cold weather down to -40°F makes it ideal for colder, outdoor environments.
- Lays flat on the ground and resists kinking for safer use with less chance of tripping over or getting caught.
- Higher working pressure than traditional rubber hose — 300 psi vs 200 psi.
- Bright yellow color makes for improved shop safety.

**Hose Material:** Hybrid PVC resin

**Working Pressure:** 300 PSI

**Temperature Range:** -40°F to +200°F

**Good Abrasion Resistance**

**Good Chemical Resistance**

| IBS No. | Hose ID (in.) | Length (ft.) | Fitting       | Pkg Qty |
|---------|---------------|--------------|---------------|---------|
| 130530  | 1/4           | 50           | 1/4" NPT Male | 1       |
| 130531  | 1/4           | 100          | 1/4" NPT Male | 1       |
| 130532  | 3/8           | 50           | 1/4" NPT Male | 1       |
| 130533  | 3/8           | 100          | 1/4" NPT Male | 1       |

### Yellow Belly Repair Fittings



- Machined from quality brass stock
- Assembled with minimal tools
- Made in the USA

| IBS No. | Hose ID (in.) | Fitting                        | Pkg Qty |
|---------|---------------|--------------------------------|---------|
| 130534  | 1/4           | 1/4" MPT Repair Fitting        | 1       |
| 130535  | 3/8           | 1/4" MPT Repair Fitting        | 1       |
| 130536  | 1/4           | 1/4" Splicer Yellow Belly Hose | 1       |
| 130537  | 3/8           | 3/8" Splicer Yellow Belly Hose | 1       |

### Vinyl Hose Guards

Extends the life of your air hose as much as 75%! Vinyl Hose Guards are just as effective as metal spring guards yet the are less expensive and less cumbersome. They won't catch or scratch finished surfaces in manufacturing or auto repair applications. To install simply heat the Vinyl Hose Guard by inserting it into a bucket of hot water for a few minutes, or use a heat lamp, to expand it and slip it over the hose end. Allow it a couple minutes to cool down. Once it cools it will contract around the hose end providing a snug fit.



| IBS No. | Description       | Size | Qty |
|---------|-------------------|------|-----|
| VG-4    | Vinyl Hose Guards | 1/4  | 2   |
| VG-6    |                   | 3/8  | 2   |

### 3 in 1 Manifolds

- Strong, lightweight machined aluminum construction.
- Supply 3 air operated tools from a single supply hose.
- Mount to pipe at workbench or overhead.
- Mount 3 different style couplers on one manifold.



| IBS No. | Description     | Inlet Thread | Outlet Thread | Qty |
|---------|-----------------|--------------|---------------|-----|
| 3404A   | 3 in 1 Manifold | 1/4 NPT      | 1/4 NPT       | 1   |
| 3406A   |                 | 3/8 NPT      | 3/8 NPT       | 1   |

### Dual Swivel Fitting

Allows a full 360° rotation which eliminates the tool and hose from working against one another, reducing operator frustration and fatigue.



| IBS No. | Description              | Qty |
|---------|--------------------------|-----|
| 130529  | Dual Swivel Fitting 1/4" | 1   |



### Hose Crimper (T03)

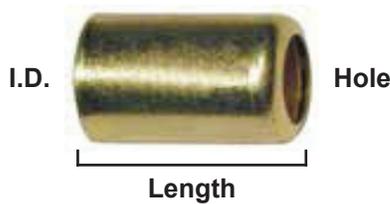
- Provides production capability for crimping standard hose.
- Gives "big tool" crimping advantages at just a fraction of the cost.
- Comes with 5 dies to crimp 1/4"-3/8" ID hose in either one or two braid design.
- Die Sizes: 5/8" 37/64" 17/32" 31/64" 11/16"
- Rugged Construction: High strength ductile iron casting.
- Self-contained & Portable: All dies in one place, ready for use.
- One-hand operation: Positive camming action allows for good leverage at end of lever stroke.



| IBS No. | Description  | Qty |
|---------|--------------|-----|
| AM855   | Hose Crimper | 1   |

### Brass Ferrules

Use with standard hose barb fittings to make perfect connections to hose. Select ferrule I.D. dimension to closely match your hose O.D.



| IBS No. | Desc.          | I.D.  | Length | Hole | Qty |
|---------|----------------|-------|--------|------|-----|
| AM7325  | Brass Ferrules | 9/16  | 1.000  | 7/16 | 25  |
| AM7326  |                | 19/32 | 1.000  | 7/16 | 25  |
| AM7328  |                | 21/32 | 1.000  | 7/6  | 25  |
| AM7329  |                | 11/16 | 1.000  | 1/2  | 25  |
| AM7330  |                | 23/32 | 1.000  | 1/2  | 25  |
| AM7331  |                | 3/4   | 1.000  | 5/8  | 25  |

### Tire Inflator Gauge

- Heavy, chrome plated castings with protective vinyl sleeve over dial tube.
- All brass internal parts.
- Plated steel is riveted to body - will not come off.
- Solid brass triangle dial with extra large markings can be read easily from any angle.
- Valve and dial units easily replaced in the field.
- Calibrated 10 - 120 psi in 2 psi increments.
- 12" hose with swivel dual-foot chuck.



| IBS No. | Description         | Qty |
|---------|---------------------|-----|
| 101D    | Tire Inflator Gauge | 1   |

### Air Line Chuck

- Ball Foot Chuck with Clip
- 1/4" NPT Female
- LIVE Air Line Only



| IBS No. | Description    | Qty |
|---------|----------------|-----|
| 10979   | Air Line Chuck | 1   |



# IBS, INCORPORATED

## Air Line Accessories V03

### LockNFlate Air Chucks

DEPRESS THE THUMB LEVER & PUSH ON THE TIRE VALVE, RELEASE THE LEVER TO SECURE THE AIR CHUCK & CREATE A LEAK-FREE CONNECTION!

**LOCKS ON STAYS ON WON'T LEAK!**



IBS No. 5858

SLIDING SLEEVE SECURELY LOCKS THE AIR CHUCK ONTO THE SHRADER VALVE

HARDENED STEEL COLLECT FITS ALL SHRADER VALVES RATED TO 150 PSI

### Also available in 90° for Tight Spaces



IBS No. 5851

### SECURE - HANDS-FREE - LEAK-FREE

- **REVOLUTIONARY DESIGN** six steel jaws lock onto any Schrader valve to create a secure, hands free connection.
- **1/4" NPT THREAD SIZE** compatible with most standard air hoses.
- **HARDENED STEEL COLLET** Fits ALL standard Schrader valves (VG8 /8V1 valve threads).
- **RATED TO 150 PSI** Suitable for garage & Industrial systems, auto and manual tire inflators, portable pressure gauges & constant pressure systems.
- **HEAVY DUTY CONSTRUCTION** is built to last and stand up to everyday use even in the busiest tire shops, service bays and garages.
- **DURABLE, SPRING LOADED TPU SEAL** Inflates tires with or without the core valve in place.

| IBS No. | Description                            | Qty |
|---------|--|-----|
| 5851    | LockNFlate 90 Degree Locking Air Chuck | 1   |
| 5858    | LockNFlate Locking Air Chuck           | 1   |

### Also available in XL for Large Bore

- Fits ALL large bore Schrader valves (VG12/12V1 valve threads) found on heavy duty construction, mining, and agricultural machinery.
- 250 PSI high-flow design, making it faster and easier to fill large tires.



| IBS No. | Description                             | Qty |
|---------|---|-----|
| 5850    | LockNFlate Large Bore Locking Air Chuck | 1   |

### DUAL WHEEL LOCKING AIR CHUCK



**Two-jaw locking design** with a patented remote actuator. **Extended reach** to securely inflate duals.

**Easily disconnect** with the actuator. No need to reach in to disconnect. Best for airing up inner wheels on semis and other large trucks.

- **Fixed Head** won't swivel or move when trying to attach.
- **Long Reach** for easier access to second wheels and harder to reach areas.
- Blue **Silicone Grip** for better ergonomics and hold.
- Standard **1/4" FNPT** thread for easy connection to air lines
- Overall Length: **15.5 in.** (40 cm.)
- Maximum pressure: **150 PSI** (10.3 BAR)



The Dual Locking Head allows you to push onto valves facing towards you, or pull onto valves facing away from you.

**HOW TO USE:** Pull the blue actuator collar back towards you to release the front jaws and push the collar away from you to release the rear jaws.

| IBS No. | Description                  | Qty |
|---------|------------------------------|-----|
| 5859    | Dual Wheel Locking Air Chuck | 1   |

AIR LINE FITTINGS



### Typhoon Max Flow Blow Gun

Our most powerful blowgun. Perfect for high-volume industrial cleanup and blow-off operations. Delivers 34 CFM maximum blowing volume with a thrust of over 2 pounds at 125 psi.



- **Tapered high-flow tip** allows access to hard-to-reach areas for more thorough and complete cleanup saving users time and money.
- **Light-weight and ergonomic design** provides more comfort for users, making them more productive and less likely for fatigue and injury.
- **Meets OSHA standard** 1910.95 for noise levels and standard 1910.242B for dead-end pressure to keep users safe and reducing injuries.
- **Variable flow trigger** for controlled blow-off allows for minimum or maximum pressure in areas where gentler or stronger pressure is required, avoiding damage or overblowing keeping debris better contained for less mess and faster cleanup – saves users time and money.
- OSHA 1910.242B, OSHA 1910.95

| IBS No. | Description               | Qty |
|---------|---------------------------|-----|
| 130516  | Typhoon Max Flow Blow Gun | 1   |

### Typhoon Plus Blow Gun

The Typhoon Plus Blow Gun is an ergonomic pistol grip blow gun made from durable high-performance polymer. The body and tip are designed to be non-marring, helping prevent scratches and scuffs on delicate or painted surfaces. The blow gun is OSHA compliant and an adjusting knob allows for precise flow control.



- **Durable polymer construction** provides the perfect combination of lightweight convenience with strength and durability.
- **Maximum power and performance with built-in airflow adjusting knob** to set the perfect amount for the job.
- **Non-marring body and tip** won't damage the surface when it comes into contact.
- **1/4" NPT inlet** for easy connectivity.
- OSHA Compliant.

| IBS No. | Description           | Qty |
|---------|-----------------------|-----|
| 130517  | Typhoon Plus Blow Gun | 1   |

### Super-Flow Blow Gun

- Specially designed tip has larger holes and more of them, which translates to more blow off power.
- Special internal valve designed to provide high power and maximum efficiency at the tip.
- Combines comfort, style, efficiency and economy while delivering more CFM (Cubic Feet per Minute) than any other lever operated blow gun.
- Ergonomically designed to fit the natural contour of the user's hand, maximizing comfort even during long term use.
- Provides a wider range of motion to direct the additional working capacity right where it's needed, resulting in increased blow-off efficiency.
- Unique thermoplastic wrap around body cover gives a distinctive look and maximizes user comfort.
- Unique tip design still meets safety requirements while offering superior air delivery.
- Full size hanging hook makes gun easy to store and use.
- Conforms to OSHA Standards for both psi dead-ended pressure and noise level exposure.



| IBS No. | Description         | Qty |
|---------|---------------------|-----|
| 130550  | Super Flow Blow Gun | 1   |

### Pistol Grip Blow Guns

- Variable flow control for precise air delivery.
- Lightweight and ergonomic design reduces user fatigue.
- Brass reinforced inlet 1/4" FPT to fit standard hose ends and coupling plugs.
- IBS No. 130504 will support a variety of standard blow gun tips to suit any application.



**SAFETY WHISPER TIP  
PISTOL GRIP BLOW GUN**

| IBS No. | Description  | Qty |
|---------|--|-----|
| 130505  | Permanently attached slender 4-1/4" bent nickel plated brass nozzle and a "star-tip" prevents dead-ending. This is a safety grip blow gun and the body color is black. | 1   |

AIR LINE FITTINGS



# IBS, INCORPORATED

## Air Line Accessories V03

### In-Line Blow Gun

This in-line blow gun is compact, durable and provides maximum flow. The blow gun's small size and light weight make it ideal for at-the-tool use. This allows users to quickly clean off a workspace without changing tools. The chrome-plated body will hold up in even the harshest environments. Ideal for use with pneumatic grinders and sanders.

- Unique "full-flow" straight-through design will not restrict downstream air flow.
- 1/4" supply ports; 1/8" nozzle port.
- Made of zinc and chrome-plate for durability and superior corrosion resistance.



#### Specifications:

Pressure Rating 150 PSI  
Operating Temperature 32°F - +175°F

#### Material:

Body: Chrome plated die cast  
Internals: Nickel plated brass  
Stainless steel spring

Length: 1-7/8"  
Width: 3/4"  
Height: 1-5/8"  
Weight: 0.2 lbs.

| IBS No. | Description      | Qty |
|---------|------------------|-----|
| 130520  | In-Line Blow Gun | 1   |



### SAFETY TIP PISTOL GRIP BLOW GUN

| IBS No. | Description  | Qty |
|---------|--|-----|
| 130504  | Features a nickel plated brass 1/8" female NPT adapter to accommodate all other tips. Body color is black. | 1   |

### Coupler Blow Gun A Blow Gun on Every Hose!



An innovative combination quick coupling and blow gun in one! This convenient unit is perfect for metalworking or woodworking operations, which often produce shavings or sawdust making it difficult to view the work surface.

A quick burst or two from the Coupler Blow Gun Combo allows the operator to get back to work quickly and easily without needing to disconnect the tool, connect a dedicated blowgun and then reconnect the tool.

The Coupler Blow Gun Combo can be used with an air tool connected or disconnected and is currently available in our most popular 1/4" Industrial Interchange

- High quality six ball coupler for a secure and lasting connection.
- Already on your hose and ready to use allows the user to clean off a workspace without changing tools.
- Easy push button trigger located at the base of the tool for quick activation.
- Trigger location (on the back of the coupler) allows the blow gun portion to be used with a tool connected or disconnected for convenient use.
- Max working pressure: 120 PSI.
- 1/4" Industrial with 1/4" female NPT.

| IBS No. | Description   | Qty |
|---------|---|-----|
| 130522  | Coupler Blow Gun Combo<br>1/4 FPT <b>Industrial</b> | 1   |
| 130523  | Coupler Blow Gun Combo<br>1/4 FPT <b>ARO</b>        | 1   |
| 130524  | Coupler Blow Gun Combo<br>1/4 FPT <b>Automotive</b> | 1   |
| 130525  | Coupler Blow Gun Combo<br>1/4 FPT <b>Hi-Flow</b>    | 1   |

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### Vari-Flo Blow Gun



- Tough zinc die-cast body that is made to last even in the harshest environments.
- Ergonomic design of the body and large operating lever reduce user fatigue and discomfort, even during long term use.
- Chrome-plated finish for an attractive appearance and superior corrosion resistance
- Supplied with 1/4" NPT female outlet thread for use with the most standard blow gun tips.
- 1/8" NPT female outlet thread for use with most standard blow gun tips.
- Conforms to OSHA standards for noise levels (1910.95) and less than 30 PSI dead-ended pressure (1910.242B).
- Four self-lubricating "O-Rings" prevent valve leakage, making blow gun repairs unnecessary.

#### Specifications:

|                        |                               |
|------------------------|-------------------------------|
| Pressure Rating:       | 150 psi                       |
| Operating Temperature: | 32° to 175°F                  |
| Body:                  | Die Cast Zinc (Chrome Plated) |
| Nozzle:                | Brass                         |
| Thumb Grip:            | Vinyl                         |
| Internal Components:   | Brass                         |

| IBS No. | Description                       | Qty |
|---------|-----------------------------------|-----|
| 130502  | Vari-Flo Blow Gun with Safety Tip | 1   |

### Blow Gun Non-Safety Tips

#### RUBBER TIP



| IBS No. | Description  | Qty |
|---------|--|-----|
| 130513  | Soft rubber tip with nickel-plated brass base will not scratch or mar delicate surfaces. | 1   |

#### NICKEL PLATED BRASS



| IBS No. | Description   | Qty |
|---------|---|-----|
| 130515  | Basic tip for blow off applications where a narrow, concentrated stream of air is required. | 1   |

#### NOTE

Safety Tips do not have a safety by-pass and must be used on air lines that have a regulated maximum pressure of 30 psi in order to comply with OSHA standards.

### Blow Gun Safety Tips



#### NICKEL PLATED BRASS BOOSTER TIP

| IBS No. | Description   | Qty |
|---------|---|-----|
| 130507  | Multiple holes create a venturi effect which increases air flow and working capacity. | 1   |



#### NICKEL PLATED BRASS SAFETY TIP

| IBS No. | Description  | Qty |
|---------|--|-----|
| 130506  | General purpose tip for blowing away dust, chips, etc. | 1   |



#### NICKEL PLATED STEEL STRAIGHT REPLACEMENT TIPS

| IBS No. | Description       | Qty |
|---------|-------------------|-----|
| 130509  | 3" Extension Tip  | 1   |
| 130510  | 6" Extension Tip  | 1   |
| 130511  | 12" Extension Tip | 1   |
| 130512  | 24" Extension Tip | 1   |

#### MEETS SAFETY STANDARDS

OSHA standard 1910.242 (B) permitting a maximum of 30 psi outlet pressure when dead ended with a maximum of 150 psi inlet pressure  
OSHA standard 1910.95 regulating occupational noise level exposure.

AIR LINE FITTINGS



# IBS, INCORPORATED

## Miscellaneous Tools T03

### ReelTek™

#### Air / Water Reels for Light Industrial Use

A new, lighter spring-driven hose reel designed for applications that are less demanding, yet require a product that can withstand industrial use. ReelTek's hybrid design incorporates industrial-grade steel and composite materials to virtually eliminate corrosion.

Easy-to-install and maintain, ReelTek™ conveniently keeps hoses organized for a more efficient, safer work area. Simply pull out the hose to the desired length, lock into position during use, and retract when finished. Hoses stored on reel last five times longer, stay out-of-sight, and out-of-the-way.

#### REELTEK™ HOSE & REEL ASSEMBLIES

| IBS No. | Description   | Qty |
|---------|---|-----|
| 131271  | Reel for 1/4" x 50' Hose<br>1/4" x 50' Flexeel Hose<br>Rubber Stopper | 1   |
| 131293  | Reel for 1/4" x 50' Hose<br>1/4" x 35' Flexeel Hose<br>Rubber Stopper | 1   |
| 131272  | Reel for 3/8" x 50' Hose<br>3/8" x 50' Flexeel Hose<br>Rubber Stopper | 1   |
| 131294  | Reel for 3/8" x 50' Hose<br>3/8" x 25' Flexeel Hose<br>Rubber Stopper | 1   |

#### REELTEK™ HOSE REELS

| IBS No. | Description              | Qty |
|---------|--------------------------|-----|
| 131184  | Reel for 1/4" x 50' Hose | 1   |
| 131185  | Reel for 3/8" x 50' Hose | 1   |

#### REPLACEMENT HOSE

| IBS No. | Description                              | Qty |
|---------|--|-----|
| 130491  | 1/4" x 50' Flexeel Polyurethane Air Hose | 1   |
| 130494  | 3/8" x 50" Flexeel Polyurethane Air Hose | 1   |

#### ACCESSORIES

| IBS No. | Description    | Qty |
|---------|----------------|-----|
| 131186  | Rubber Stopper | 1   |

**Hose Sold Separately**

**Long-Lasting Latch Spring**  
Stainless steel torsion spring on the latch insures maximum life.

**Corrosion Resistance**  
Steel components are powder-coated & combined with composite materials, which virtually eliminates corrosion

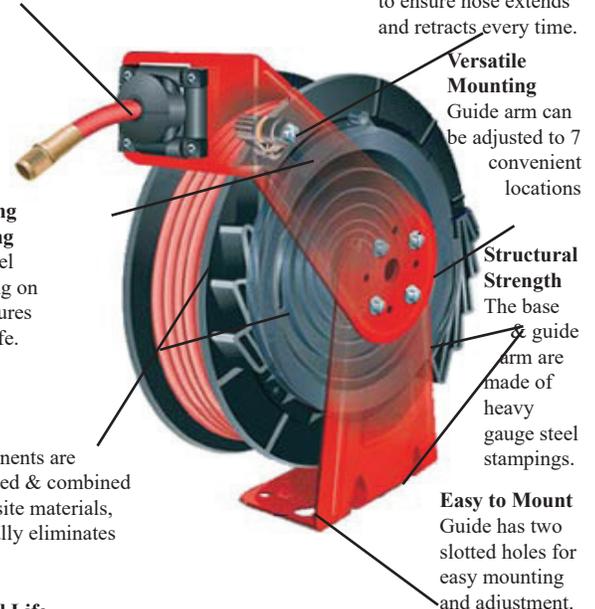
**Long Swivel Life**  
Field-proven swivel assures long service life

**Hose Retracts Every Time**  
Latch mechanism is mounted on the arm to ensure hose extends and retracts every time.

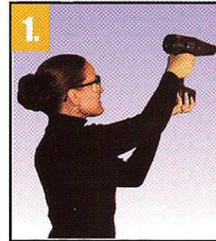
**Versatile Mounting**  
Guide arm can be adjusted to 7 convenient locations

**Structural Strength**  
The base & guide arm are made of heavy gauge steel stampings.

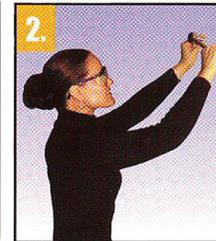
**Easy to Mount**  
Guide has two slotted holes for easy mounting and adjustment.



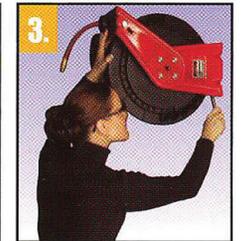
### Installation . . . Easy as 1,2,3



**Step 1**  
Locate stud & layout bolt hole pattern of the reel. Drill pilot holes into the stud



**Step 2**  
Thread lag screws into pilot holes.



**Step 3**  
Hang reel onto lag screws. Securely tighten lag screws. Ready to use.

### ReelTek is ideal for . . .

- Light industrial
- Air-powered tools
- Assembly lines
- Machine shops
- Maintenance shops
- Auto / truck repair
- Auto Paint & Body
- Farm & ranch
- Woodworking
- Garden shops
- Home workshops
- Many more uses

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### Pressure Washer Couplers & Coupler Plugs

Pressure washer couplers offer a straight through design — which means they contain no valving, which increases flow through the connection.

- **Standard interchange style** works with Parker, Hansen, Foster, Adams and others.
- **No internal valves**, providing maximum flow with minimum pressure drop.
- **Ideal for** fluid transfer lines, pressure washers, high pressure water, steam washers and carpet cleaners.



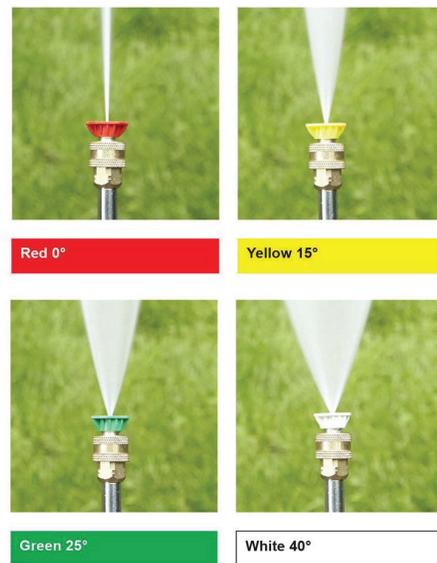
| IBS No. | Description                                 | Qty |
|---------|---|-----|
| CST3B   | 1/4 MPT Straight Through Coupler Brass      | 1   |
| CST4B   | 1/4 FPT Straight Through Coupler Brass      | 1   |
| CST5B   | 3/8 MPT Straight Through Coupler Brass      | 1   |
| CST6B   | 3/8 FPT Straight Through Coupler Brass      | 1   |
| CST7B   | 1/2 MPT Straight Through Coupler Brass      | 1   |
| CST8B   | 1/2 FPT Straight Through Coupler Brass      | 1   |
| CPST3   | 1/4 MPT Straight Through Coupler Plug Steel | 1   |
| CPST4   | 1/4 FPT Straight Through Coupler Plug Steel | 1   |
| CPST5   | 3/8 MPT Straight Through Coupler Plug Steel | 1   |
| CPST6   | 3/8 FPT Straight Through Coupler Plug Steel | 1   |
| CPST7   | 1/2 MPT Straight Through Coupler Plug Steel | 1   |
| CPST8   | 1/2 FPT Straight Through Coupler Plug Steel | 1   |

### Quick Disconnect Nozzles for Pressure Washers

Nozzles are color-coded and rated at 4.0 GPM @ 4000 PSI



- **RED = 0-degree** nozzle, delivers a small, very concentrated stream of water. This nozzle is typically used for tough stains and debris from concrete and metal. Do not use this nozzle on wood or siding as this stream is very strong and powerful, and can damage a soft surface.
- **YELLOW = 15-degree** is typically used for surface preparation such as removing dirt, mildew or paint, and can be used on most surfaces.
- **GREEN = 25-degree** nozzle is best used to sweep away dirt and mud. Use it to sweep way leaves from decks, driveways and sidewalks.
- **WHITE = 40-degree** nozzle is the best nozzle to start with. It has a wide spray area which means less force, but more coverage in one pass. Use it for vehicles, windows and to clean large areas quickly.



PRESSURE WASHER NOZZLES

| IBS No. | Description                                 | Qty |
|---------|---|-----|
| 130560  | Pressure Washer Nozzle 0 DGR <b>RED</b>     | 1   |
| 130561  | Pressure Washer Nozzle 15 DGR <b>YELLOW</b> | 1   |
| 130562  | Pressure Washer Nozzle 25 DGR <b>GREEN</b>  | 1   |
| 130563  | Pressure Washer Nozzle 40 DGR <b>WHITE</b>  | 1   |

AIR LINE FITTINGS



# IBS, INCORPORATED

## Assortments Z02

### Pressure Washer Couplers, Plugs & Nozzles

IBS No. 831R • 12 Items • 32 Pcs

Packaged in a locking steel drawer for easy storage and organization

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|  <b>IBS, Inc.</b><br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM • 800-678-1906 |  | <b>Pressure Washer Couplers, Plugs and Nozzles</b><br>Assortment No. 831R   |  |
| <b>CST3B</b><br>1/4 MPT STRAIGHT THRU COUPLER BRASS FOR PRESSURE WASHER<br>                           | <b>CST5B</b><br>3/8 MPT STRAIGHT THRU COUPLER BRASS FOR PRESSURE WASHER<br>       | <b>130560</b><br>PRESSURE WASHER NOZZLE 0 DEGREE RED<br>     |  |
| <b>CST4B</b><br>1/4 FPT STRAIGHT THRU COUPLER BRASS FOR PRESSURE WASHER<br>                           | <b>CST6B</b><br>3/8 FPT STRAIGHT THRU COUPLER BRASS FOR PRESSURE WASHER<br>       | <b>130561</b><br>PRESSURE WASHER NOZZLE 15 DEGREE YELLOW<br> |  |
| <b>CPST3</b><br>1/4 MPT STRAIGHT THRU COUPLER PLUG STEEL FOR PRESSURE WASHER<br>                      | <b>CPST5</b><br>3/8 MPT STRAIGHT THRU COUPLER PLUG STEEL FOR PRESSURE WASHER<br>  | <b>130562</b><br>PRESSURE WASHER NOZZLE 25 DEGREE GREEN<br>  |  |
| <b>CPST4</b><br>1/4 FPT STRAIGHT THRU COUPLER PLUG STEEL FOR PRESSURE WASHER<br>                     | <b>CPST6</b><br>3/8 FPT STRAIGHT THRU COUPLER PLUG STEEL FOR PRESSURE WASHER<br> | <b>130563</b><br>PRESSURE WASHER NOZZLE 40 DEGREE WHITE<br> |  |

### Pressure Washer Nozzles 4 Pc Travel Tray

IBS No. 830R • 4 Items • 4 Pcs

Packaged in a locking steel drawer for easy storage and organization

|  |  |   |   |
|--|--|---|---|
|  <b>IBS, Inc.</b><br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM • 800-678-1906 |  | <b>Pressure Washer Nozzles 4 Pc Travel Tray</b><br>Assortment No. 830R  |   |
| <b>130560</b><br>PRESSURE WASHER NOZZLE 0 DEGREE<br>RED<br>   | <b>130561</b><br>PRESSURE WASHER NOZZLE 15 DEGREE<br>YELLOW<br> | <b>130562</b><br>PRESSURE WASHER NOZZLE 25 DEGREE<br>GREEN<br> | <b>130563</b><br>PRESSURE WASHER NOZZLE 40 DEGREE<br>WHITE<br> |



## Grease Fittings

### A

#### Assortments

##### Grease Fittings

English Standard 124R VG-5

English Standard 225R VG-5

Inch & Metric Grease Fittings

849R VG-7

Metric Grease Fittings 232R VG-7

### G

#### Grease Fittings

1/4"-28 Taper Thread VG-4

1/4" Pipe Thread VG-3, VG-4

1/8" Pipe Thread VG-3

Drive Fittings VG-4

English Standard 225R VG-5

Fitting Measurements VG-2

Gen'l Information VG-2

Drills & Taps Table VG-2

Installation VG-2

Measuring VG-2

Hydraulic Couplers VG-8

Lincoln Grease Ftg Coupler VG-8

Swivel Coupler VG-8

Thread Forming VG-4

#### Tools

Drive VG-8

Easy-Out VG-8

#### Grease Guns

Medium Duty VG-9

### T

#### Tools

Easy-Out Fitting Tools VG-8

#### Hand

LockNLube Coupler VG-9

Hydraulic Fitting Tools VG-8

### Z

Zerks. *See Grease Fittings*

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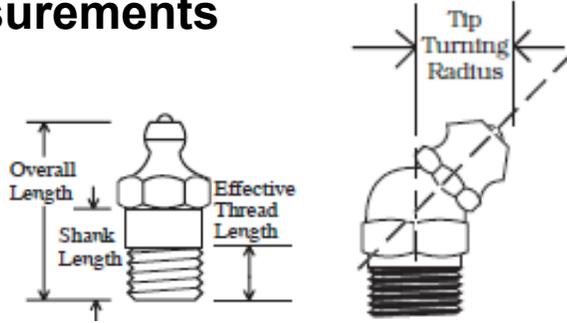
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## Grease Fittings V01

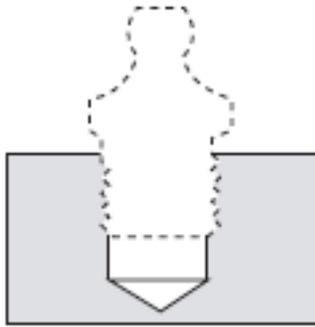
GREASE FITTINGS

### Fitting Measurements

Fittings listed on these pages are shown approximately actual size with the complete dimensional data as indicated at right.

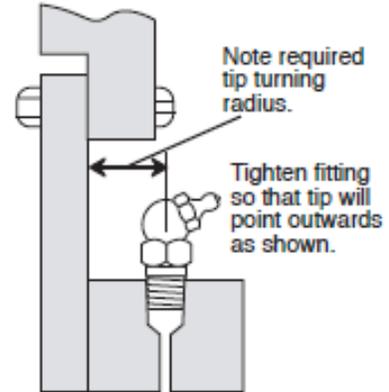
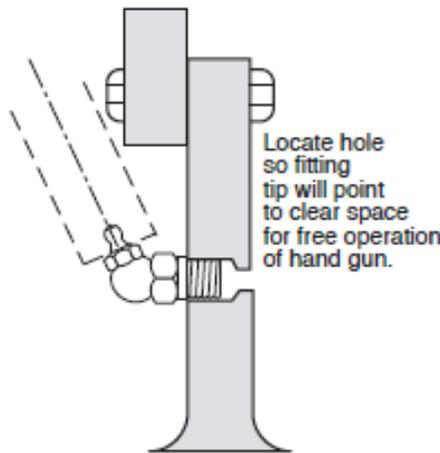
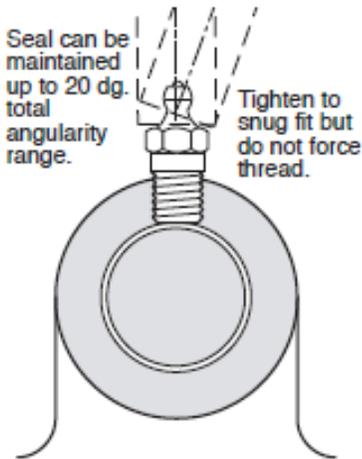


### Select Proper Drills & Taps From This Table



| Thread (tap) Size | 1/8" Pipe Thread                         | 1/4"-28 Straight or Taper Thread    |
|-------------------|--|-------------------------------------|
| Drill Size        | 11/32"<br>(For soft metal use "R" drill) | #3<br>(For soft metal use #5 drill) |

### Installation



**IMPORTANT** - The tips of all fittings should be positioned to permit a clear space in a straight line away from fitting for free operation of a hand gun or control valve (seal can be maintained up to 20° total angularity range).

1. Select the proper angle or straight fitting to provide for proper clearance.
2. Be careful in positioning fittings in sub-assemblies to avoid interference from parts of other assemblies.

It is essential that all holes be accurately tapped so that fittings do not have to be screwed in too tight.

1. If original fittings are screwed in too far, the holes will become overly enlarged and service replacements will be difficult.
2. Overtightening, also, can easily strip the threads in soft alloyed metals frequently encountered. Accurate threads and moderate tightening will ensure a leakproof joint.





### Ball Check Type Grease Fittings

- Ball in tip of fitting keeps out dirt and foreign matter.
- Enlarged inner passaged admits more lubricant, helps cut time on important lubrication jobs.
- Balanced action spring retracts easily to allow maximum lubricant flow under pressure, yet holds ball firmly in sealing position at all other times.
- Better coupler connection — Perfect spherical shape of base allows coupler jaws to form leakproof seal, even at a wide angle.
- Easy installation — All threads accurately machine cut.
- Fitting body made of special hardened steel for long life.
- Accepts all standard makes of hydraulic couplers.
- Universal application — industrial motor equipment.

#### 1/8" Pipe Thread

| Fitting Angle    | Overall Length (inches) | IBS No. | Qty |
|------------------|-------------------------|---------|-----|
| Straight, Short  | .56                     | 1644-B  | 25  |
| Straight         | .66                     | 1610-B  | 25  |
| Straight, Long   | 1.25                    | 1607-B  | 25  |
| Straight, Long   | 1.75                    | 1669-B  | 10  |
| Straight, Long   | 2.62                    | 1684-B  | 10  |
| Straight, Female | —                       | 1618-B  | 25  |
| 30°              | .90                     | 1611-B  | 25  |
| 30°              | 2.09                    | 1638-B  | 10  |
| 45°              | 1.07                    | 1688-B  | 25  |
| 65°              | .86                     | 1612-B  | 25  |
| 90°              | .84                     | 1613-B  | 25  |



#### 1/4" Pipe Thread

| Fitting Angle | Overall Length (inches) | IBS No. | Qty |
|---------------|-------------------------|---------|-----|
| Straight      | .88                     | 1627-B  | 10  |
| 67.5°         | .97                     | 1629-B  | 10  |



- Recommended for heavy lubricants in cold weather.
- Typical application: Large bearings on farm machinery and industrial equipment such as mining equipment and trucks

GREASE FITTINGS





# IBS, INCORPORATED

## Grease Fittings V01

### 1/4"-28 Taper Thread

| Fitting Angle          | Overall Length | IBS No. | Qty |
|------------------------|----------------|---------|-----|
| Tapered Thrd, Straight | .54            | 1641-B  | 25  |
| Tapered Thrd, Straight | .69            | 1652-B  | 25  |
| Tapered Thrd, Straight | .92            | 1680-B  | 25  |
| Tapered Thread 45°     | .94            | 1637-B  | 25  |
| 45° Long Shank         | .82            | 1636-B  | 25  |
| Tapered Thread 90°     | .75            | 1911-B  | 25  |



- Conforms to Society of Automotive Engineers (**SAE**) lubrication thread specification.
- Small thread size make these fittings very popular for most cars and trucks.

### Thread Forming

| Fitting Angle             | Overall Length | Hole Size   | IBS No. | Qty |
|---------------------------|----------------|-------------|---------|-----|
| 1/8 Strt, Thrd Cutting    | .62            | .373 - .380 | 1720-B  | 25  |
| 1/4-28 Strt, Thrd Cutting | .55            | .230 - .235 | 3038-B  | 25  |



| Fitting Angle    | Overall Length | Hole Size | IBS No. | Qty |
|------------------|----------------|-----------|---------|-----|
| 5/16-24 UNF - 2A |                | —         | 1711-B  | 25  |

- Special tapered drive threads reshape the material in an untapped hole to provide a leakproof seal.
- Most effectively installed by spinning into an untapped hole but may also be driven straight into an untapped hole.
- May be replaced by any standard threaded fitting.
- Dyed red for identification.

### Drive Fittings

| Fitting Angle               | Overall Length | IBS No. | Qty |
|-----------------------------|----------------|---------|-----|
| 1/8 Straight, No Ball Check |                | 3019-NB | 25  |
| 3/16 Straight Ball Check    |                | 1728-B  | 25  |
| 3/16 45° Ball Check         |                | 1646-B  | 25  |
| 1/4 Straight Ball Check     |                | 1743-B  | 25  |
| 5/16 Straight Ball Check    |                | 1608-B  | 25  |
| 3/8 Straight, No Ball Check |                | 1666-NB | 25  |



GREASE FITTINGS



# IBS, INCORPORATED

## Assortments (Z02)



### Grease Fittings Assortment

English Standard

IBS No. 124R 21 Items — 180 Pcs

Packaged in a locking steel drawer for easy storage & organization

| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM 800-678-1906 |                                       | Grease Fittings                          |  |   |                                   | Assortment No. 124R |
|---|---------------------------------------|--|--|---|-----------------------------------|---------------------|
| 1641-B<br>1/4-28 TAPER TRD STRT ZERK  | 1652-B<br>1/4-28 TAPER TRD 11/16 ZERK | 1680-B<br>1/4-28 TAPER TRD 31/32 STRT    | 1637-B<br>1/4-28 TAPER TRD 45 DGR ZERK     | 1911-B<br>1/4-28 TAPER TRD. 90 DGR ZERK | 1610-B<br>1/8 NPT STRT ZERK       |                     |
| 1644-B<br>1/8 NPT SHORT STRT. ZERK  | 1607-B<br>1/8 NPT 1-1/4L STRT ZERK    | 1611-B<br>1/8 NPT 30DGR STRT ZERK        | 1688-B<br>1/8 NPT 45 DGR ZERK              | 1613-B<br>1/8 NPT 90DGR ZERK            | 1629-B<br>1/4 NPT 67-1/2 DGR ZERK |                     |
| 1743-B<br>1/4 DRIVE ZERK BALL CHECK   | 1608-B<br>5/16 DRIVE ZERK BALL CHECK  | 1728-B<br>3/16 DRIVE ZERK BALL CHECK     | 1666-NB<br>3/8 DRIVER ZERK - NO BALL CHECK | 1646-B<br>3/16 45DGR DRIVE ZERK         |                                   |                     |
| 1711-B<br>5/16-24 ZERK (LEAF SPRINGS)   | 1720-B<br>1/8 NPT STRT THREAD CUTTING | 3038-B<br>1/4-28 NPT STRT THREAD CUTTING | 5251<br>RUBBER ZERK CAP                    |   |                                   |                     |

### Grease Fittings Assortment

English Standard

IBS No. 225R 12 Items — 178 pcs

Packaged in a locking steel drawer for easy storage & organization

| IBS, Inc.<br>SPECIALTY PRODUCTS FOR MAINTENANCE & REPAIR<br>INDUSTRIALBOLT.COM 800-678-1906 |                                       | Grease Fittings                        |   |  |                            | Assortment No. 225R |
|---|---------------------------------------|--|---|--|----------------------------|---------------------|
| 1641-B<br>1/4-28 TAPER TRD STRT ZERK  | 1652-B<br>1/4-28 TAPER TRD 11/16 ZERK | 1637-B<br>1/4-28 TAPER TRD 45 DGR ZERK | 1911-B<br>1/4-28 TAPER TRD. 90 DGR ZERK |  | 317850-1F<br>18" LUB. HOSE |                     |
| 1610-B<br>1/8 NPT STRT ZERK   | 1688-B<br>1/8 NPT 45 DGR ZERK         | 1613-B<br>1/8 NPT 90DGR ZERK           |   |  |                            |                     |
| 1608-B<br>5/16 DRIVE ZERK BALL CHECK  | 1728-B<br>3/16 DRIVE ZERK BALL CHECK  |  |   |  |                            |                     |
| 5251<br>RUBBER ZERK CAP   |                                       |  |   | 308730<br>1/8 NPT GREASE FITTING COUPLER |                            |                     |

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# IBS, INCORPORATED

## Grease Fittings V01

GREASE FITTINGS

### Metric Fittings

#### 6mm x 1mm (pitch)

| Fitting Angle          | Length (inches) | IBS No. | Qty |
|------------------------|-----------------|---------|-----|
| Tapered Thrd, Straight | .63             | Z-1600  | 25  |
| Tapered Thrd, 45°      | .82             | Z-1621  | 25  |
| Tapered Thrd, 90°      | .71             | Z-1690  | 25  |



Z-1600



Z-1621



Z-1690

#### 8mm x 1mm (pitch)

| Fitting Angle          | Length (inches) | IBS No. | Qty |
|------------------------|-----------------|---------|-----|
| Tapered Thrd, Straight | .63             | Z-2103  | 25  |
| Tapered Thrd, 45°      | .82             | Z-2104  | 25  |
| Tapered Thrd, 90°      | .71             | Z-2105  | 25  |



Z-2103



Z-2104



Z-2105

#### 10mm x 1mm (pitch)

| Fitting Angle          | Length (inches) | IBS No. | Qty |
|------------------------|-----------------|---------|-----|
| Tapered Thrd, Straight | .63             | Z-2109  | 25  |
| Tapered Thrd, 45°      | .82             | Z-2110  | 25  |
| Tapered Thrd, 90°      | .71             | Z-2111  | 25  |



Z-2109



Z-2110



Z-2111

### Rubber Zerk Cap

- Rubber caps slip easily on and off grease fitting.
- Protects grease fitting against dirt, rocks, chemicals and impact from other sources.
- Reusable.



| IBS No. | Description     | Qty |
|---------|-----------------|-----|
| 5251    | Rubber Zerk Cap | 25  |



# IBS, INCORPORATED

## Assortments (Z02)



### Metric Grease Fittings Assortment

IBS No. 232R • 10 Items - 175 pcs

Packaged in a locking steel drawer for easy storage & organization



### Metric Grease Fittings

Assortment No. 232R

|  |  |  |
|--|--|--|
| <p>Z-1600<br/>6MM X 1.0 STRT METRIC ZERK</p>    | <p>Z-1621<br/>6MM X 1.0 45DGR METRIC ZERK</p>   | <p>Z-1690<br/>6MM X 1.0 90DGR METRIC ZERK</p>   |
| <p>Z-2103<br/>8MM X 1.0 STRT METRIC ZERK</p>    | <p>Z-2104<br/>8MM X 1.0 45DGR METRIC ZERK</p>   | <p>Z-2105<br/>8MM X 1.0 90DGR METRIC ZERK</p>   |
| <p>Z-2109<br/>10MM X 1.0 STRT. METRIC ZERK</p>  | <p>Z-2110<br/>10MM X 1.0 45DGR METRIC ZERK</p>  | <p>Z-2111<br/>10MM X 1.0 90DGR METRIC ZERK</p>  |
| <p>5251<br/>RUBBER ZERK CAP</p>                 |  |  |



### Inch and Metric Grease Fittings Assortment

IBS No. 849R • 22 Items - 166 pcs

Packaged in a locking steel drawer for easy storage & organization



### Grease Fittings Inch & Metric

Assortment No. 849R

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| <p>1911-B<br/>1/4-28 TAPER TRD 90<br/>DGR ZERK</p>  | <p>1613-B<br/>1/8 NPT 90 DGR ZERK</p>           | <p>1608-B<br/>5/16 DRIVE ZERK BALL<br/>CHECK</p>  | <p>Z-1690<br/>M6 X 1.0 90DGR<br/>METRIC ZERK</p>  | <p>Z-2105<br/>8MM X 1.0 90DGR<br/>METRIC ZERK</p>  | <p>Z-2111<br/>10MM X 1.0 90DGR<br/>METRIC ZERK</p>  |
| <p>1637-B<br/>1/4-28 TAPER TRD 45<br/>DGR ZERK</p>  | <p>1688-B<br/>1/8 NPT 45 DGR ZERK</p>           | <p>1743-B<br/>1/4 DRIVE ZERK BALL<br/>CHECK</p>   | <p>Z-1621<br/>M6 X 1.0 45DGR<br/>METRIC ZERK</p>  | <p>Z-2104<br/>M8 X 1.0 45DGR<br/>METRIC ZERK</p>   | <p>Z-2110<br/>10MM X 1.0 45DGR<br/>METRIC ZERK</p>  |
| <p>1652-B<br/>1/4-28 TAPER TRD<br/>11/16 ZERK</p>   | <p>1607-B<br/>1/8 NPT 1-1/4L STRT<br/>ZERK</p>  | <p>1728-B<br/>3/16 DRIVE ZERK BALL<br/>CHECK</p>  | <p>Z-1600<br/>M6 X 1.0 STRT METRIC<br/>ZERK</p>   | <p>Z-2103<br/>M8 X 1.0 STRT METRIC<br/>ZERK</p>    | <p>Z-2109<br/>10MM X 1.0 STRT.<br/>METRIC ZERK</p>  |
| <p>1641-B<br/>1/4-28 TAPER TRD STRT<br/>ZERK</p>    | <p>1610-B<br/>1/8 NPT STRT ZERK</p>             |  |  | <p>5852<br/>LINCOLN GREASE<br/>COUPLER</p>         | <p>5251<br/>RUBBER ZERK CAP</p>                     |



GREASE FITTINGS





# IBS, INCORPORATED

## Grease Fittings V01

GREASE FITTINGS

### Hydraulic Couplers

- Provides quick, positive leak-proof connection with hydraulic fittings.
- Grease pressure forces 4 hardened steel jaws against the fitting.



| IBS No. | Description      | Thread   | Qty |
|---------|------------------|----------|-----|
| 308730  | Straight Coupler | 1/8 NPTF | 5   |

### Swivel Coupler

- Coupler swivels a full 360°.
- Locks in any of eight positions.
- Ideal for engaging out-of-the-way fittings.
- Use 1/8" NPTF pipe extension to connect coupler to gun outlet.
- Narrow diameter coupler.
- Rubber seal.



| IBS No. | Description    | Thread    | Qty |
|---------|----------------|-----------|-----|
| 6509-E  | Swivel Coupler | 1/8" NPTF | 1   |

### Lincoln Grease Ftg Coupler

- 6,000 psi maximum operating pressure
- For all hydraulic grease fittings
- Small outside diameter permits easy contact with recessed fittings
- Replaceable hardened steel jaws
- Built-in ball check prevents leak and lubricant back up.



| IBS No. | Description     | Thread    | Qty |
|---------|-----------------|-----------|-----|
| 5852    | Lincoln Coupler | 1/8" NPTF | 1   |

### Hydraulic Fitting Tools

Tools For Straight and Angle-type Drive Fittings



5253

| IBS No. | For Drive Fittings     | Qty |
|---------|------------------------|-----|
| 5253    | 1666-NB, 1743B, 3019NB | 1   |
| 5253-1  | 1608-B, 1743B          | 1   |
| 5253-2  | 1728B                  | 1   |

### Easy-Out Fitting Tools

Extract broken fittings, rethread holes and install fittings with one tool.



B315790

B315791

| IBS No. | For Fittings with Thread | Qty |
|---------|--------------------------|-----|
| B315790 | 14-28" Taper Thread      | 1   |
| B315791 | 18" NPT                  | 1   |

### Flex Lubricator Extension Hose

For Lever & Screw-Type Hand Guns

- End connections are 1/8" NPTF (m).
- Maximum working pressure: 4800 psi.
- Minimum burst pressure: 12,000 psi.



317850-1 317850-1F

| IBS No.   | Description | Qty |
|-----------|-------------|-----|
| 317850-1  | 12" Length  | 1   |
| 317850-1F | 18" Length  | 1   |





### Medium Duty Grease Guns

- Develops pressure up to 10,000 psi.
- Automatic variable pressure.
- Deliver: 1 ounce per 21 strokes
- Air vent fitting.
- Vinyl grip.
- Deluxe pull handle with heavy duty rivets and positive stop.
- Heavy-duty one-piece head.
- Three-way loader -fitting included.



**500HD**

| IBS No. | Description | Qty |
|---------|-------------|-----|
| 500HD   | Grease Gun  | 1   |

- Three-way loading - Loader fitting included.
- 4500/3000 psi.
- Automatic variable pressure.
- Delivery — 1 Oz. per 33, 16 strokes.
- Air vent fitting.
- Vinyl grip.
- Deluxe pull handle with heavy duty rivets.
- Heavy duty one-piece head.



**525HD**

| IBS No. | Description | Qty |
|---------|-------------|-----|
| 525HD   | Grease Gun  | 1   |

### LockNLube Coupler

The LockNLube Coupler has a unique sliding sleeve, activated by thumb lever. The sleeve either locks the four spring-steel jaws onto the zerk fitting or releases the jaws from the zerk. No hands are needed to align or hold the coupler in place while greasing. The locked connection is positive and rigid, preventing the coupler from coming loose and breaking the leakproof seal. If a fitting becomes pressurized, especially a recessed one, just depress the thumb lever and release the coupler. Because it does not leak, the grease goes in, not on the machine, and the bearings get the grease they so desperately need.



- Works with all grease gun types: pneumatic, manual and electric.
- Works on all DIN and SAE specification zerks.
- Fits 1/8" pipe thread.
- Works with all grease gun manufacturers.
- No need to hold while greasing. Lock-on and free up both hands to operate the grease gun. — simply depress the trigger to release, even under pressure.
- Durable nitrile rubber seal for longevity under high pressure.
- Four hardened spring steel jaws are resilient under high pressure.
- Check valve to reduce leakage.
- LOCKNLUBE XL with a longer barrel has a 3.6" effective reach.

| IBS No. | Description                         | Qty |
|---------|-------------------------------------|-----|
| 5855    | LockNLube Locking Grease Coupler    | 1   |
| 5856    | LockNLube XL Locking Grease Coupler | 1   |
| 5860    | LockNLube Repair Kit                | 1   |

GREASE FITTINGS





# **IBS, INCORPORATED**

## **Grease Fittings V01**

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"The mark of our quality is in our service"

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