



# ***CATALOG***

*Automotive Hose, Tubing, and Components*

**BrakeQuip**<sup>®</sup>  
////// INNOVATIVE SOLUTIONS FOR AUTOMOTIVE TUBES AND HOSES  
Since 1998 [brakequip.com](http://brakequip.com)

BrakeQuip

Catalog

Copyright © 2020-2021 BrakeQuip

Published August 2020

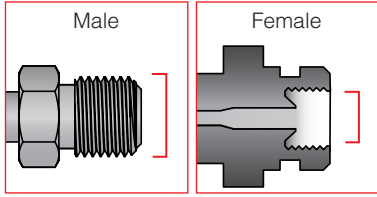


# TABLE OF CONTENTS

<b>GENERAL</b>	<b>3</b>	15mm hole	57	Imperial Male	120
Thread Identification	4	3/8" hole	58	Metric Male	121
Fitting Identification	5	7/16" hole	58	Center Support	122
Special Finishes	6	<b>Imperial Female</b>	<b>59</b>	<b>POWER STEERING</b>	<b>123</b>
<b>EQUIPMENT</b>	<b>7</b>	Bolt Mount	59	Hose	124
<b>Machines</b>	<b>8</b>	Bracket Mount	62	Accessories	125
All-In-One Crimp and Test Unit	8	Bulkhead Mount	64	Fittings	126
Versatile Crimping System	8	Clip Mount	66	<b>FUEL</b>	<b>130</b>
Brake Hose Pressure Tester	8	Standard	71	Fuel Connectors	131
<b>Equipment Aids</b>	<b>9</b>	<b>Metric Female</b>	<b>72</b>	Fuel Fittings	132
Fluids	9	Bolt Mount	72	Fuel Accessories	133
<b>Crimp Setting</b>	<b>10</b>	Bracket Mount	73	Fuel Line Kit	134
<b>Testing</b>	<b>10</b>	Clip Mount	74	<b>TUBING &amp; HARDWARE</b>	<b>135</b>
Tools	11	Spline Mount	83	Tubing	136
Test Cones	12	Bulkhead Mount	83	Copper-Nickel	136
<b>BRAKE &amp; CLUTCH</b>	<b>13</b>	<b>Imperial Male</b>	<b>84</b>	Stainless Steel	137
<b>Hose</b>	<b>14</b>	JIC Male	84	Hose & Protectors	138
Rubber Brake Hose	14	Bolt Mount	84	Tubing Tools	138
Braided Brake Hose	14	Bulkhead Mount	84	Straighteners	139
<b>Accessories</b>	<b>15</b>	Standard	85	Benders	140
Rubber Hose Accessories	15	<b>Metric Male</b>	<b>88</b>	Flaring Tools	141
Braided Hose Accessories	17	Bulkhead Mount	88	Cutters	142
Grommets	18	Clip Mount	89	Tool Kits	143
Fitting Accessories	19	Standard	89	<b>Hardware</b>	<b>144</b>
Fitting Tools	19	<b>Center Support</b>	<b>91</b>	Tube Nuts	144
<b>General Fittings</b>	<b>20</b>	Bracket Mount	91	Elbows	146
Female Swivel	20	Clip Mount	95	Braze-on Fittings	146
Male Swivel	22	<b>Brackets</b>	<b>97</b>	Female Unions	147
Universal	26	Fitting Brackets	97	Male Unions	148
Lifesaver	27	Center Brackets	102	Bulkhead Nuts	148
Center Joiner	28	Centers with Grommet	104	Tees	149
Clutch	29	<b>LOW PROFILE</b>	<b>105</b>	Clips & Brackets	150
Compression	29	<b>Hose</b>	<b>106</b>	Thread Adapters	151
<b>Block Banjo</b>	<b>30</b>	<b>Tools</b>	<b>106</b>	Bump Tube Adapters	153
Universal	30	Skiving Tool	106	Transmission Line Adapters	153
8mm hole	30	<b>General Fittings</b>	<b>107</b>	Copper Washers	154
10mm hole	31	Crimp Shell	107	Banjo Bolts	154
11mm hole	38	Female Swivel	107	Banjo Adapters	155
12mm hole	40	Male Swivel	108	Braze-on Banjo Heads	155
3/8" hole	40	Crimp Tee	110	Bleed Screws	156
7/16" hole	46	Lifesaver	111	Brake Hose Caps & Plugs	156
<b>Round Banjo</b>	<b>47</b>	Universal	111	Assortment Kits	157
8mm hole	47	Clutch	111	<b>INDEX</b>	<b>160</b>
10mm hole	47	Stems	112		
11mm hole	57	<b>Block Banjo</b>	<b>113</b>		
12mm hole	57	<b>Round Banjo</b>	<b>113</b>		
		<b>Imperial Female</b>	<b>117</b>		
		<b>Metric Female</b>	<b>118</b>		

# THREAD IDENTIFICATION

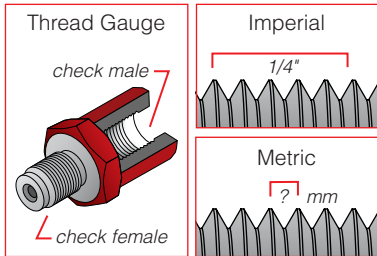
Tool: Thread ID Kit (BQ2100)



## 1. Identify the diameter

Diameter × Pitch

For male fittings, measure the outer diameter. It will be slightly less than the nominal size. For female fittings, measure with thread gauges.



## 2. Identify the pitch

Diameter × Pitch

After determining the diameter, use thread gauges to determine the pitch. For imperial sizes, the pitch is the thread count in a 1-inch length. (A simple way to calculate it is to count threads within 1/4" and multiply by 4.) For metric sizes, the pitch is the distance in millimeters between threads.

## Brake System Threads

### IMPERIAL *also known as SAE*

- 3/8-20 BSF
- 3/8-24 UNF**
- 7/16-20 UNF**
- 7/16-24 UNS**
- 1/2-20 UNF
- 9/16-18 UNF
- 9/16-20 UNS

**Common imperial threads.**

UNF = Unified National Fine  
 UNS = Unified National Special  
 BSF = British Standard Fine

### METRIC

- M9 × 1
- M10 × 1**
- M10 × 1.25**
- M10 × 1.5
- M11 × 1.25
- M12 × 1**
- M12 × 1.25
- M12 × 1.5
- M14 × 1.5

**Common metric threads.**

## Important Notes

- **Similar Diameters: 3/8" & 10mm**  
 An M10 male will not start in a 3/8" female. To identify a female thread, use the M10 male end to see if it will start the thread.  
 To identify a male thread, use the 3/8-24 female.
- **Similar Diameters: 7/16" & 11mm**  
 A 7/16" male will not start in an M11 female. To identify a female thread, use the 7/16" male end to see if it will start the thread.  
 To identify a male thread, use the M11 female.
- **Both Metric & Imperial**  
 It is possible to have metric on one end and imperial on the other.

## Global Guide

Asian	Metric (99%)
European (not UK)	Metric (99%)
UK (1930 - 1976)	Imperial
UK (1976 - present)	Metric
USA (1930 - 1980)	Imperial
USA (1980 - present)	Imperial & Metric

# FITTING IDENTIFICATION

Follow these instructions to find a BrakeQuip fitting that is equivalent to an unknown fitting in hand.

## 1. Select the crimp

Part Prefix	Group
<b>HF</b>	STANDARD HOSE FITTING Fittings for both rubber & braided stainless steel hose
<b>LP</b>	LOW PROFILE Fittings for braided stainless steel hose
<b>PSHF</b>	POWER STEERING HOSE FITTING Fittings for power steering hose

## 2. Identify the thread, if applicable

If the fitting is threaded, use the [Thread ID Kit, BQ2100](#), to properly identify the thread. It is important to note whether the thread is Imperial (SAE) or Metric.

## 3. Select the fitting group

Group	Fitting Type	HF examples	LP examples
	<b>MISCELLANEOUS</b> Swivels, lifesavers, universals, and other fittings that do not belong to another group.	HF01	LP01-3
<b>-B</b>	<b>BANJO</b> Organized by shape, then hole size and width.	HFB09	LPB09-10M
<b>-C</b>	<b>CENTER SUPPORT</b> Organized by mount type.	HFC01	LPC01
<b>-IF</b>	<b>IMPERIAL FEMALE</b> Organized by mount type, then thread and seat type.	HFIF02	LPIF02-7
<b>-IFX</b>	<b>IMPERIAL FEMALE WITH EXTERNAL THREAD</b> Organized within Imperial Female group as Bulkhead Mount.	HFIFX01	LPIFX01
<b>-IM</b>	<b>IMPERIAL MALE</b> Organized by mount type, then thread.	HFIM01	LPIM01-6
<b>-MF</b>	<b>METRIC FEMALE</b> Organized by mount type, then thread and seat type.	HFMF04	LPMF04
<b>-MFX</b>	<b>METRIC FEMALE WITH EXTERNAL THREAD</b> Organized within Metric Female group as Bulkhead Mount.	HFMFX01	
<b>-MM</b>	<b>METRIC MALE</b> Organized by mount type, then thread.	HFMM03	LPMM03-M10X1

## 4. Identify the fitting by fitting details

Identify fittings within a given fitting group through detailed measurement. For some attributes you will need a ruler or an [angle gauge, BQ2033](#).

# SPECIAL FINISHES

---

Select fittings are available in a variety of special finishes to fit your needs. To see current offerings, visit [dealer.brakequip.com](http://dealer.brakequip.com). For special order terms, contact [sales@brakequip.com](mailto:sales@brakequip.com).



## Brass

C3600 brass fittings are popular for salt water applications.

P/N suffix -B



## Zinc-Nickel Plating

Developed as a cost-efficient alternative for corrosive environments, zinc-nickel plating is 2-3 times more protective than common trivalent plating. The finish is a clean, matte gray.

P/N suffix -Z



## Stainless Steel

Stainless steel fittings are the premium choice for chemical and corrosion resistance.

P/N suffix -SS



## Anodized Aluminum

Anodized aluminum is durable, lightweight, and resistant to heat and corrosion. Straight and pre-bent low profile banjos are available in black, red, or blue.

P/N suffix -A + color, example: LPB01-10MABL



## Chrome Plating

Some low profile fittings are readily available in lustrous chrome.

P/N suffix -C

# ***EQUIPMENT***

## **Machines**

All-In-One Crimp and Test Unit	8
Versatile Crimping System	8
Brake Hose Pressure Tester	8

## **Equipment Aids**

Measurement	9
Machine	9
Fluids	9

## **Crimp Setting**

Front Crimp-Setting	10
Rear Crimp-Setting	10
General Crimp-Setting	10

## **Testing**

Tools	11
Test Cones	12

# MACHINES

## ALL-IN-ONE CRIMP AND TEST UNIT

### BQ1005-6

A combination crimp-and-test unit, the **All-in-One Unit** is very easy to use and has a compact design that will fit in any shop. Its process control features make it equally suitable for single prototypes or production runs.



## VERSATILE CRIMPING SYSTEM

### BQ1006-2

The **Versatile Crimping System** (VCS) uses BrakeQuip's proven 8-finger crimp head combined with an air-over-hydraulic pump for a simple, quick, and reliable crimping system.



## BRAKE HOSE PRESSURE TESTER

### BQ1013A

The **Stand-Alone High-Speed Tester** is an air-over-hydraulic brake hose pressure tester.



/// Machine instructions are in the machine manuals.

# EQUIPMENT AIDS

## MEASUREMENT

Angle gauge

**BQ2033**



Constriction gauge

**BQ2001W**



## MACHINE

Calibration tool

**BQ35**



10mm drill bit

**BQ2010**



*This drill bit is designed to be used with lifesavers.*

## FLUIDS

Lubricant and test fluid

**BQ3980**

*Use BQ3980 with the All-in-One Unit, BQ1005, and the Brake Hose Pressure Tester, BQ1013A.*



Hose assembly lubricant

**BQ2696-R3**



# CRIMP SETTING

## FRONT CRIMP-SETTING

Standard  
**BQ2008**



Standard  
**BQ2002**



Low profile  
**BQ2110**



Power steering  
**BQ2091A**



## REAR CRIMP-SETTING

Standard  
**BQ1021A**



Standard on braided  
**BQ1027**



Low profile  
**BQ1029**



Power steering  
**BQ1026**

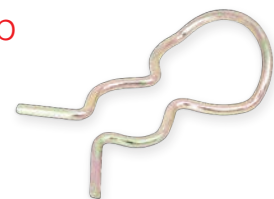


## GENERAL CRIMP-SETTING

Crimp-setting spade  
**BQ37**



Crimp-setting clip  
**BQ1014**



/// Crimp setting instructions are in the machine manuals.



# TESTING

---

## TOOLS

Fitting support spade

**BQ23**



Fitting test adapter

**BQ1022**



*Use BQ1022 to test fittings before crimping.*

Banjo blocking-off tool

**BQ1020R**



*The banjo blocking-off tool is designed to be used on banjo fittings with hole sizes between 3/8" and 12mm.*

/// Testing instructions are in the machine manuals.

# TESTING *CONTINUED*

## TEST CONES

### Universal cones

**BQ206**



**BQ206H**



*with hole*

### Long-head cones

**BQ208**



**BQ208H**



*with hole*

### Female swivel cones

**BQ206S**

*drill-point seat*



**BQ206HS**

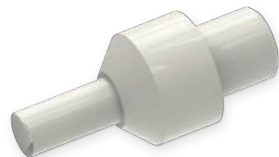
*drill-point seat*



*with hole*

**BQ207**

*inverted seat*



**BQ207H**

*inverted seat*



*with hole*

### Cone shank

**BQ21**

*Use BQ21 for banjo fittings.*



/// Test cone instructions are in the machine manuals.

# ***BRAKE & CLUTCH***

## **Hose**

Rubber Brake Hose	14
Braided Brake Hose	14

## **Accessories**

Rubber Hose Accessories	15
Braided Hose Accessories	17
Grommets	18
Fitting Accessories	19
Fitting Tools	19

## **General Fittings**

Female Swivel	20
Male Swivel	22
Universal	26
Lifesaver	27
Center Joiner	28
Clutch	29
Compression	29

## **Block Banjo**

Universal	30
8mm hole	30
10mm hole	31
11mm hole	38
12mm hole	40
3/8" hole	40
7/16" hole	46

## **Round Banjo**

8mm hole	47
10mm hole	47
11mm hole	57
12mm hole	57
15mm hole	57
3/8" hole	58
7/16" hole	58

## **Imperial Female**

Bolt Mount	59
Bracket Mount	62
Bulkhead Mount	64
Clip Mount	66
Standard	71

## **Metric Female**

Bolt Mount	72
Bracket Mount	73
Clip Mount	74
Spline Mount	83
Bulkhead Mount	83

## **Imperial Male**

JIC Male	84
Bolt Mount	84
Bulkhead Mount	84
Standard	85

## **Metric Male**

Bulkhead Mount	88
Clip Mount	89
Standard	89

## **Center Support**

Bracket Mount	91
Clip Mount	95

## **Brackets**

Fitting Brackets	97
Center Brackets	102
Centers with Grommet	104

# HOSE

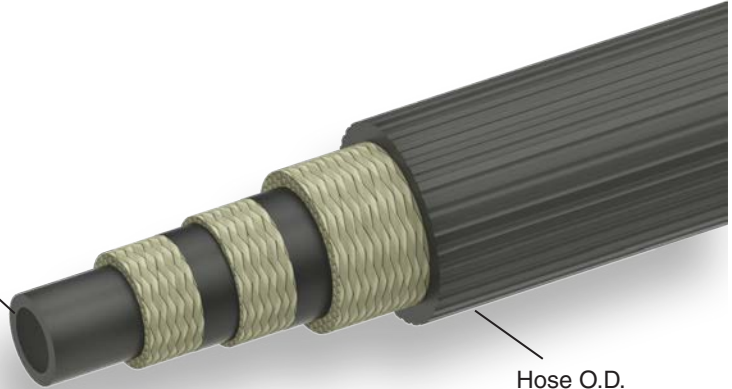
## RUBBER BRAKE HOSE

### Rubber Hose BQ103, BQ105

Carriers	24
Wires per Carrier	4
Hose Wall	0.4" / 10mm
Operating Pressure	1500psi
Burst Pressure	10,000psi
Bend Radius	1.5" / 38mm
Temperature Range	-58°F to 250°F / -50°C to 121°C

Hose I.D.  
0.130"-0.138"  
3.3mm - 3.5mm

Hose O.D.  
0.406"-0.421"  
10.3mm - 10.7mm



Compatible with DOT 3, 4, 5, and most non-petroleum based brake fluids, including silicone.  
Warning: no mineral oils should be used.

## BRAIDED BRAKE HOSE

### Unjacketed Braided Hose BQ301 No jacket, for off-road use only.

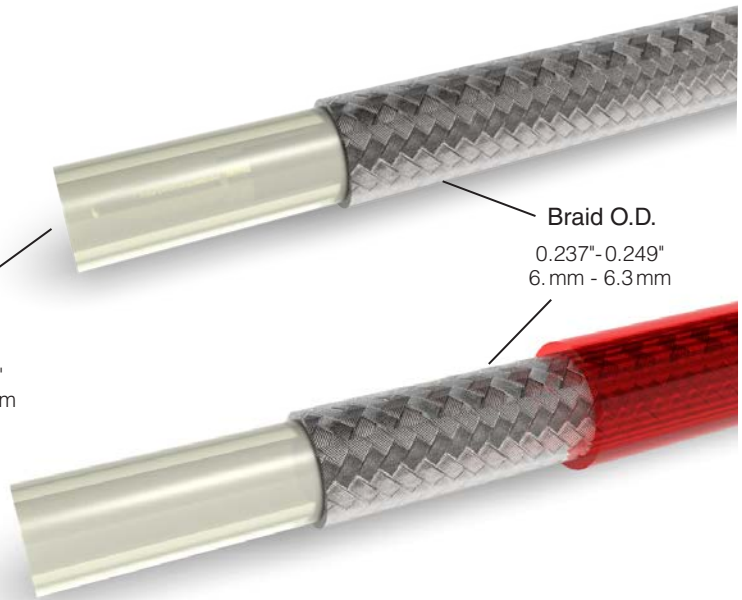
### Jacketed Braided Hose

BQ302BK	Solid black jacket
BQ303	Clear jacket
BQ303RD	Red jacket
BQ303BL	Blue jacket
BQ303BK	Smoke jacket

Carriers	23
Wires per Carrier	4
Hose Wall	0.4" / 10mm
Operating Pressure	3,000psi
Burst Pressure	12,000psi
Bend Radius	2.0" / 50.8mm
Temperature Range	-65°F to 450°F / -54°C to 232°C

Hose I.D.  
0.125"-0.140"  
3.2mm - 3.6mm

Braid O.D.  
0.237"-0.249"  
6. mm - 6.3mm



Compatible with DOT 3, 4, 5 (silicone-based), and 5.1 brake fluids, plus oil and most fluids.  
Warning: no gases or acids should be used.

# ACCESSORIES

## RUBBER HOSE ACCESSORIES

### Spring Protectors

#### BQ202

Length 50cm



*nylon*

#### BQ11

Length 16"  
Sold in packs of 6



*steel*

### Rubber Protectors

#### BQ201

Sold in 50ft section



*rubber*

#### BQ203

Length 10.4cm



*rubber*

### Strain Relievers

#### BQ200

Sold in 10ft section



*rubber*

#### BQ296

Length 9cm



*rubber*

### Heat Protection Sleeve

#### BQ312-BK

Sold in 10ft section



# ACCESSORIES CONTINUED

## Plastic Clips

### BQ65

Sold in packs of 6



### BQ66

Sold in packs of 6



### BQ67

Sold in packs of 6



### BQ68

Sold in packs of 6



### BQ69

Sold in packs of 6



### BQ70

Sold in packs of 6



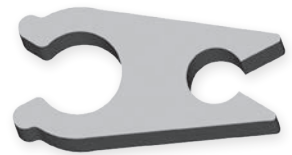
### BQ97

Sold in packs of 6



### BQ98

Sold in packs of 6



## Rubber Brake Hose Cutter

### BQ2103



*The blade has two cutting points for double life.*

**Replacement blade  
BQ2101B**

# ACCESSORIES CONTINUED

## BRAIDED HOSE ACCESSORIES

### Crimp Shell Inserts

#### BQ251-BK

Color black



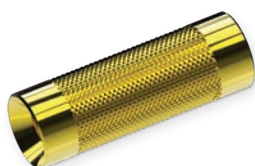
#### BQ251-BL

Color blue



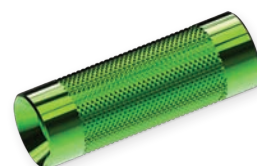
#### BQ251-GD

Color gold



#### BQ251-GR

Color green



#### BQ251-PP

Color purple



#### BQ251-RD

Color red



#### BQ251-SV

Color silver



### Center Support Sleeves

#### BQ310

Sold in 10ft sections

Use with standard profile center support fittings on BQ301 unjacketed braided brake hose.



#### BQ311

Sold in 10ft sections

Use with standard profile center support fittings on BQ303 jacketed braided brake hose (all colors).



### Small Braided Hose Shears

#### BQ2104



### Skiving Tool

#### BQ436

Skives lengths for Standard and Low Profile crimps.

Uses a common No. 9 single-edge razor blade.



/// Skiving instructions are in the [hose assembly manual](#).



# ACCESSORIES CONTINUED

## GROMMETS

These black rubber grommets are for use with **rubber brake hose**. A braided hose equivalent is listed, if available. All rubber hose grommets can be used on braided hose in conjunction with a **center fitting adapter tube**, BQ311.

### BQ210

Diameter 30mm  
Overall length 10mm

Braided hose BQ210BR



### BQ211

Diameter 18mm  
Overall length 25mm

Braided hose BQ211BR



### BQ212

Diameter 22mm  
Overall length 41mm



### BQ213

Diameter 30mm  
Overall length 32mm

Braided hose BQ213BR



### BQ215

Diameter 25mm  
Overall length 22mm

Braided hose BQ215BR



### BQ216

Diameter 28mm  
Overall length 32mm



### BQ217

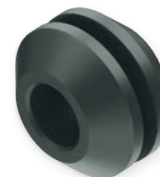
Diameter 25.5mm  
Overall length 29mm



### BQ218

Diameter 25mm  
Overall length 16mm

Braided hose BQ288



### BQ233

Diameter 26mm  
Overall length 24mm



### BQ234

Diameter 19mm  
Overall length 34mm

Braided hose BQ289



### BQ272

Diameter 25.4mm  
Overall length 10mm



### BQ273

Diameter 26mm  
Overall length 8mm



### BQ274

Diameter 18mm  
Overall length 62mm



### BQ275

Diameter 32mm  
Overall length 24mm



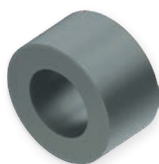


# ACCESSORIES CONTINUED

## BQ276

Diameter 18mm  
Overall length 10mm

Braided hose BQ294



## BQ277

Diameter 14mm  
Overall length 28mm



## FITTING ACCESSORIES

### E-Clip

#### BQ12

Available in packs of 20



### Bracket Retaining Screws

#### BQ71

Available in packs of 50



## FITTING TOOLS

### Standard Banjo Bending Bar

#### BQ22A



### Low Profile Banjo Bending Bar

#### BQ22C



### Banjo Bending Tool Holder

#### BQ22B



/// Banjo bending instructions are in the [hose assembly manual](#).

# GENERAL FITTINGS

## FEMALE SWIVEL 5/16-24 UNF

### HF61

Thread	5/16-24 UNF
Seat type	37° drill-point
Hex	1/2"
Overall length	35 mm



## FEMALE SWIVEL 3/8-24 UNF

### HF09

Thread	3/8-24 UNF
Flare	37° double
Bend	straight
Tube size	3/16"
Overall length	58 mm



Stainless HF09SS

### HF09W

Thread	3/8-24 UNF
Seat type	37° drill-point
Overall length	36 mm



wire-lock

Low profile LP chrome LP09W-6 LP09W-6C

### HF10

Thread	3/8-24 UNF
Flare	37° double
Bend	45°
Tube size	3/16"
Overall length	52 mm



Low profile LP chrome LP10W-6 LP10W-6C

### HF11

Thread	3/8-24 UNF
Flare	37° double
Bend	90°
Tube size	3/16"
Overall length	45 mm



Stainless Low profile LP chrome HF11SS LP11-6, LP11W-6 LP11W-6C

# GENERAL FITTINGS *CONTINUED*

## FEMALE SWIVEL 7/16-20 UNF

### HF12

Thread	7/16-20 UNF
Flare	37° double
Bend	straight
Tube size	1/4"
Overall length	50mm



Stainless	HF12SS
Low profile	LP12W-7
LP chrome	LP12W-7C

### HF13

Thread	7/16-20 UNF
Flare	37° double
Bend	45°
Tube size	1/4"
Overall length	56mm



Stainless	HF13SS
Low profile	LP13W-7
LP chrome	LP13W-7C

### HF14

Thread	7/16-20 UNF
Flare	37° double
Bend	90°
Tube size	1/4"
Overall length	48mm



Low profile	LP14W-7
LP chrome	LP14W-7C

### HF410

Thread	7/16-20 UNF
Flare	45° double
Bend	45°
Tube size	1/4"
Overall length	56mm



## FEMALE SWIVEL M12×1

### HF102

Thread	M12×1
Flare	45° double
Bend	straight
Tube size	1/4"
Overall length	50mm



# GENERAL FITTINGS CONTINUED

## MALE SWIVEL 3/8-24 UNF

### HF16

Thread	3/8-24 UNF
Flare	45° double
Bend	straight
Tube size	3/16"
Overall length	57 mm



Brass	HF157BT
Stainless	HF16SS
Low profile	LP16-6
LP chrome	LP16-6C
LP stainless	LP16-6SS

### HF17

Thread	3/8-24 UNF
Flare	45° double
Bend	90°
Tube size	3/16"
Overall length	49 mm



Stainless	HF17SS
Low profile	LP17-6
LP chrome	LP17-6C
LP stainless	LP17-6SS

### HF33

Thread	3/8-24 UNF
Flare	45° double
Bend	45°
Tube size	3/16"
Overall length	65 mm



Low profile	LP33-6
LP chrome	LP33-6C
LP stainless	LP33-6SS

### HF43SS

Thread	3/8-24 UNF
Flare	45° single
Bend	straight
Tube size	5 mm
Overall length	69 mm



*stainless*

### HF45SS

Thread	3/8-24 UNF
Flare	45° single
Bend	35°
Tube size	5 mm
Overall length	112 mm



*stainless*

Low profile	LP45-6
LP chrome	LP45-6C

### HF63

Thread	3/8-24 UNF
Flare	45° double
Bend	straight
Tube size	3/16"
Overall length	88 mm



### HF81

Thread	3/8-24 UNF
Flare	bubble
Bend	straight
Tube size	3/16"
Overall length	76 mm



### HF150

Thread	3/8-24 UNF
Flare	45° double
Bend	straight
Tube size	3/16"
Hex mount	5/8"
Overall length	45 mm



# GENERAL FITTINGS *CONTINUED*

## HF164Z

Thread	3/8-24 UNF
Flare	45° double
Bend	straight
Tube size	3/16"
Hex mount	9/16"
Overall length	51 mm



zinc-nickel

Brass HF164BT

## MALE SWIVEL 7/16-24 UNS

### HF04

Thread	7/16-24 UNS
Flare	45° double
Bend	straight
Tube size	1/4"
Overall length	8 mm



### HF06

Thread	7/16-24 UNS
Flare	45° double
Bend	90°
Tube size	1/4"
Overall length	61 mm



Low profile LP06-7

### HF07

Thread	7/16-24 UNS
Flare	45° double
Bend	45°
Tube size	1/4"
Overall length	76 mm



Stainless HF07SS

### HF15

Thread	7/16-24 UNS
Flare	45° double
Bend	straight
Tube size	1/4"
Overall length	52 mm



Stainless HF15SS

### HF39

Thread	7/16-24 UNS
Flare	45° double
Bend	straight
Tube size	1/4"
Hex mount	16 mm
Overall length	54 mm



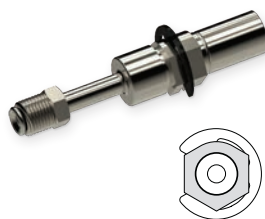
### HF94

Thread	7/16-24 UNS
Flare	45° double
Bend	60°
Tube size	1/4"
Overall length	81.7 mm



### HF100

Thread	7/16-24 UNS
Flare	45° double
Bend	straight
Tube size	1/4"
Hex mount	16 mm
Overall length	81 mm



### HF101

Thread	7/16-24 UNS
Flare	45° double
Bend	90°
Tube size	1/4"
Hex mount	16 mm
Overall length	82.2 mm



# GENERAL FITTINGS *CONTINUED*

## HF135

Thread 7/16-24 UNS  
 Flare 45° double  
 Bend straight  
 Tube size 1/4"  
 Hex mount 16mm  
 Overall length 49mm



## HF145

Thread 7/16-24 UNS  
 Flare 45° double  
 Bend 110°  
 Tube size 1/4"  
 Overall length 135mm



## MALE SWIVEL 1/20-20 UNF

### HF18

Thread 1/2-20 UNF  
 Flare 45° double  
 Bend straight  
 Tube size 5/16"  
 Overall length 80mm



### HF28

Thread 1/2-20 UNF  
 Flare 45° double  
 Bend straight  
 Tube size 5/16"  
 Hex mount 16mm  
 Overall length 60mm



### HF29

Thread 1/2-20 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 5/16"  
 Overall length 62mm



### HF92

Thread 1/2-20 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 3/16"  
 Overall length 53.3mm



### HF142

Thread 1/2-20 UNF  
 Flare 45° double  
 Hex 1/2"  
 Bend 103°  
 Tube size 1/4"  
 Overall length 128.3mm



### HF154

Thread 1/2-20 UNF  
 Flare 45° double  
 Hex 1/2"  
 Tube size 1/4"  
 Overall length 120mm



## MALE SWIVEL 9/16-18 UNF

### HF98

Thread 9/16-18 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 1/4"  
 Overall length 45.1mm



# GENERAL FITTINGS *CONTINUED*

## MALE SWIVEL M10×1

### HF08

Thread	M10×1
Flare	DIN
Bend	straight
Tube size	3/16"
Overall length	70mm



### HF34

Thread	M10×1
Flare	45° double
Bend	straight
Tube size	3/16"
Overall length	71mm



Low profile	LP34-M10X1
LP stainless	LP34-M10X1SS

### HF82

Thread	M10×1
Flare	DIN
Bend	straight
Tube size	3/16"
Overall length	71mm



Low profile	LP82-M10X1
LP zinc-nickel	LP82-M10X1Z

### HF99

Thread	M10×1
Flare	DIN
Bend	95°
Tube size	3/16"
Overall length	49.9mm



### HF115

Thread	M10×1
Flare	DIN
Bend	90°
Tube size	3/16"
Overall length	90.6mm



### HF116

Thread	M10×1
Flare	DIN
Bend	straight
Tube size	3/16"
Overall length	60.5mm



### HF117

Thread	M10×1
Flare	DIN
Bend	25°
Tube size	3/16"
Overall length	57.2mm



### HF158

Thread	M10×1
Flare	DIN
Bend	90°
Tube size	3/16"
Overall length	42mm



Low profile	LP125
-------------	-------

### HF310

Thread	M10×1
Flare	DIN
Bend	straight
Tube size	3/16"
Overall length	72mm



### HF403

Thread	M10×1
Flare	45° double
Bend	90°
Tube size	3/16"
Overall length	65mm



# GENERAL FITTINGS *CONTINUED*

## MALE SWIVEL M12×1

### HF77

Thread	M12×1
Flare	DIN
Bend	straight
Tube size	1/4"
Overall length	57 mm



### HF137

Thread	M12×1
Flare	DIN
Bend	90°
Tube size	1/4"
Overall length	57 mm



### HF404

Thread	M12×1
Flare	45° double
Bend	90°
Tube size	3/16"
Overall length	65 mm



## UNIVERSAL

### HF02

Tube size	3/16"
Overall length	99 mm

Low profile LP02



### HF03

Tube size	1/4"
Overall length	99 mm

Low profile LP03



### HF139

Tube size	1/4"
Overall length	200 mm



/// Instructions for using universal fittings are in the [hose assembly manual](#).



# GENERAL FITTINGS CONTINUED

## LIFESAVER

If the desired hose fitting is unavailable, reuse the customer's original fitting by replacing the crimp shell with a lifesaver. BrakeQuip offers six lifesavers for use with standard brake fittings as well as low-profile and power steering versions.

### Center Support Lifesaver

#### HF05

Overall length 23 mm



### 7 mm Shank Banjo Lifesaver

#### HF120

Tube size 7 mm  
Overall length 27 mm



*Use with 7 mm shank banjo fittings.*

### 3/16" Lifesaver

#### HF01

Tube size 3/16"  
Overall length 27 mm

Stainless HF01SS  
Low profile LP01-3



### 3/16" Tube-Style Lifesaver

#### HF155SS

Tube size 3/16"  
Overall length 27 mm



*stainless*

### 1/4" Lifesaver

#### HF26

Tube size 1/4"  
Overall length 27 mm

Low profile LP01-4



### 5/16" / 8mm Tube-Style Lifesaver

#### HF27

Tube size 5/16"  
Overall length 27 mm

Low profile LP01-5



/// Instructions for using lifesavers are in the [hose assembly manual](#).  
Power steering lifesavers are on page [129](#).  
Low-profile lifesavers are on page [111](#).  
Brazing rods are on page [146](#).

# GENERAL FITTINGS *CONTINUED*

## CENTER JOINER

### HF37

Mount hole 8.3 mm (2)  
Tube size 8 mm  
Overall length 86 mm



### HF38

Mount hole 8.3 mm (2)  
Tube size 8 mm  
Overall length 86 mm



### HF71

Mount hole 8.2 mm  
Tube size 7 mm  
Overall length 130 mm



### HF72

Mount hole 8.2 mm  
Tube size 7 mm  
Overall length 130 mm



### HF73

Mount hole 8.3 mm  
Tube size 7 mm  
Overall length 95 mm



### HF74

Mount hole 8.3 mm  
Tube size 7 mm  
Overall length 95 mm



### HF300

Mount hole 6.6 mm  
Tube size 8 mm  
Overall length 190 mm



# GENERAL FITTINGS CONTINUED

## CLUTCH

**HF35**



**HF62**



**HF83**

*O-ring included.*



**HF114**

Low profile LP156

*O-ring included.*



**HF125**

*O-ring and  
release included.*



## COMPRESSION

Compression fittings are not recommended for hydraulic braking systems. These fittings are intended for clutch hydraulic hoses and general industrial hydraulic applications.

**HF30**

Tube size 3/16"  
Hex 1/2"



**HF31**

Tube size 1/4"  
Hex 14 mm

Stainless HF31SS



# BLOCK BANJO

## 10 MM HOLE UNIVERSAL

### HFB22

Hole	10 mm
Thickness	11.5 mm
Width	19 mm
Bend	straight
Tube size	5/16"
Overall length	172 mm



## 7/16" HOLE UNIVERSAL

### HFB23

Hole	7/16"
Thickness	1/2"
Width	19 mm
Bend	straight
Tube size	5/16"
Overall length	172 mm



Use universal banjos with the 5/16 tube nut, BQ2578, and the 1/2-20 UNF female fitting, HFIF06.

## 8 MM HOLE 17 MM WIDTH

### HFB112

Hole	8 mm
Thickness	14 mm
Width	17 mm
Bend	35°
Overall length	50 mm



## 10 MM HOLE 16 MM WIDTH

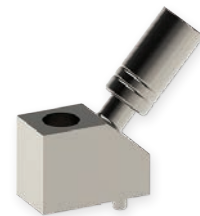
### HFB13

Hole	10 mm
Thickness	5/8"
Width	16 mm
Angle	straight
Overall length	42 mm



### HFB81

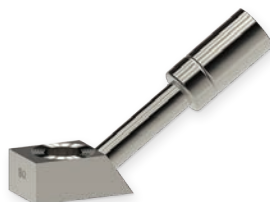
Hole	10 mm
Thickness	23 mm
Width	16 mm
Angle	50°
Overall length	46 mm



## 10 MM HOLE 17 MM WIDTH

### HFB17

Hole	10 mm
Thickness	11.5 mm
Width	17 mm
Angle	35°
Overall length	78 mm



### HFB21

Hole	10 mm
Thickness	11.5 mm
Width	17 mm
Bend	50°
Overall length	72 mm



# BLOCK BANJO *CONTINUED*

## HFB46

Hole	10mm
Thickness	11mm
Width	17.6mm
Angle	10°
Overall length	44mm



## HFB100

Hole	10mm
Thickness	8mm
Width	17mm
Bend	straight
Overall length	51mm



## HFB144

Hole	10mm
Thickness	11.5mm
Width	17mm
Angle	straight
Overall length	46mm



## HFB300

Hole	10mm
Thickness	11.4mm
Width	17mm
Angle	15°
Overall length	50mm



## 10 MM HOLE 18 MM WIDTH

## HFB236

Hole	10mm
Thickness	1/2"
Width	18mm
Bend	90°
Overall length	71mm



## HFB367

Hole	10mm
Thickness	11mm
Width	18mm
Bend	90°
Overall length	60mm



## HFB397

Hole	10mm
Thickness	8.5mm
Width	18mm
Bend	60°
Overall length	78mm



## HFB474

Hole	10mm
Thickness	1/2"
Width	18mm
Overall length	67.6mm



| Left pair      HFB475

*right*

## HFB475

Hole	10mm
Thickness	1/2"
Width	18mm
Overall length	67.6mm



| Right pair      HFB474

*left*

# BLOCK BANJO *CONTINUED*

## HFB493

Hole 10mm  
 Thickness 1/2"  
 Width 18mm  
 Bend 90°  
 Overall length 70mm



*left*

Low profile LPB493-10M  
 Right pair HFB494

## HFB494

Hole 10mm  
 Thickness 1/2"  
 Width 18mm  
 Bend 90°  
 Overall length 70mm



*right*

Low profile LPB494-10M  
 Left pair HFB493

## HFB590

Hole 10mm  
 Thickness 13mm  
 Width 18mm  
 Overall length 79.4mm



*left*

Right pair HFB591

## HFB591

Hole 10mm  
 Thickness 13mm  
 Width 18mm  
 Overall length 79.4mm



*right*

Left pair HFB590

## HFB592

Hole 10mm  
 Thickness 13mm  
 Width 18mm  
 Overall length 100.6mm



*left*

Right pair HFB593

## HFB593

Hole 10mm  
 Thickness 13mm  
 Width 18mm  
 Overall length 100.6mm



*right*

Left pair HFB592

## HFB594

Hole 10mm  
 Thickness 13mm  
 Width 18mm  
 Overall length 95.7mm



*left*

Right pair HFB595

## HFB595

Hole 10mm  
 Thickness 13mm  
 Width 18mm  
 Overall length 95.7mm



*right*

Left pair HFB594

## HFB598

Hole 10mm  
 Thickness 1/2"  
 Width 18mm  
 Overall length 82.5mm



*left*

Right pair HFB599

## HFB599

Hole 10mm  
 Thickness 1/2"  
 Width 18mm  
 Overall length 82.5mm



*right*

Left pair HFB598

# BLOCK BANJO CONTINUED

## 10 MM HOLE 19 MM WIDTH

### HFB16

Hole	10 mm
Thickness	10.4 mm
Width	19 mm
Angle	20°
Overall length	54 mm



### HFB40

Hole	10 mm
Thickness	11.3 mm
Width	19 mm
Angle	straight
Overall length	42 mm



### HFB45

Hole	10 mm
Thickness	11 mm
Width	19.6 mm
Angle	10°
Overall length	47 mm



### HFB49

Hole	10 mm
Thickness	11.3 mm
Width	19 mm
Angle	straight
Overall length	44 mm



### HFB113

Hole	10 mm
Thickness	11.8 mm
Width	19 mm
Overall length	130 mm

Left pair      HFB114



*right*

### HFB114

Hole	10 mm
Thickness	11.8 mm
Width	19 mm
Overall length	130 mm

Right pair      HFB113



*left*

### HFB180

Hole	10 mm
Thickness	11 mm
Width	19.5 mm
Bend	30°
Overall length	65 mm



### HFB187

Hole	10 mm
Thickness	8 mm
Width	19 mm
Bend	straight
Overall length	61 mm



### HFB251

Hole	10 mm
Thickness	12.6 mm
Width	19.6 mm
Bend	90°
Overall length	80 mm



### HFB256

Hole	10 mm
Thickness	11.8 mm
Width	19.5 mm
Bend	75°
Overall length	110 mm



# BLOCK BANJO *CONTINUED*

## HFB310

Hole	10mm
Thickness	11.4mm
Width	19mm
Bend	10°
Overall length	82mm



## 10 MM HOLE 20 MM WIDTH

### HFB12

Hole	10mm
Thickness	11.5mm
Width	20mm
Angle	10°
Overall length	46mm



| Low profile LPB12-10M

### HFB14

Hole	10mm
Thickness	13mm
Width	20mm
Bend	20°
Overall length	55mm



| Low profile LPB14

### HFB41

Hole	11mm
Thickness	14mm
Width	20mm
Angle	20°
Overall length	50mm



### HFB91

Hole	10mm
Thickness	11.4mm
Width	20mm
Angle	straight
Overall length	42mm



### HFB107

Hole	10mm
Thickness	12mm
Width	20mm
Bend	75°
Overall length	86mm



*right*

| Left pair HFB108

### HFB108

Hole	10mm
Thickness	12mm
Width	20mm
Bend	75°
Overall length	86mm



*left*

| Right pair HFB107

### HFB119

Hole	10mm
Thickness	11.9mm
Width	20mm
Bend	90°
Overall length	60mm



*right*

| Left pair HFB120

### HFB120

Hole	10mm
Thickness	11.9mm
Width	20mm
Bend	90°
Overall length	60mm



*left*

| Right pair HFB119



# BLOCK BANJO *CONTINUED*

## HFB161

Hole	10 mm
Thickness	14.5 mm
Width	20 mm
Bend	30°
Overall length	121 mm



## HFB259

Hole	10 mm
Thickness	11.6 mm
Width	20.5 mm
Bend	90°
Overall length	110 mm



| Right pair      HFB260

## HFB260

Hole	10 mm
Thickness	11.6 mm
Width	20.5 mm
Bend	90°
Overall length	110 mm



| Left pair      HFB259

## HFB267

Hole	10 mm
Thickness	11.7 mm
Width	20.5 mm
Bend	15°
Overall length	90 mm



## HFB450

Hole	10 mm
Thickness	12.4 mm
Width	20 mm
Bend	90°
Overall length	80 mm



| Left pair      HFB451

## HFB451

Hole	10 mm
Thickness	12.4 mm
Width	20 mm
Bend	90°
Overall length	80 mm



| Right pair      HFB450

## 10 MM HOLE 22 MM WIDTH

## HFB51

Hole	10 mm
Thickness	14.7 mm
Width	22.2 mm
Bend	55°
Overall length	75 mm

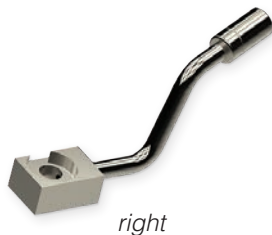


# BLOCK BANJO *CONTINUED*

## HFB121

Hole 10mm  
 Thickness 14.7mm  
 Width 22.2mm  
 Overall length 127mm

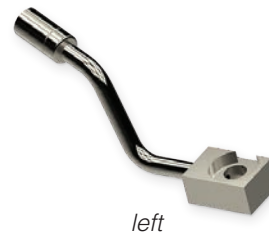
Left pair HFB122



## HFB122

Hole 10mm  
 Thickness 14.7mm  
 Width 22.2mm  
 Overall length 127mm

Right pair HFB121



## HFB173

Hole 10mm  
 Thickness 12mm  
 Width 22.2mm  
 Overall length 118mm



## HFB239

Hole 10mm  
 Thickness 11.6mm  
 Width 22.2mm  
 Overall length 200mm



## HFB240

Hole 10mm  
 Thickness 11.9mm  
 Width 22.2mm  
 Overall length 200mm



## HFB242

Hole 10mm  
 Thickness 11.5mm  
 Width 22.2mm  
 Overall length 220mm



## HFB245

Hole 10mm  
 Thickness 11.7mm  
 Width 22.2mm  
 Overall length 100mm

Left pair HFB246



## HFB246

Hole 10mm  
 Thickness 11.7mm  
 Width 22.2mm  
 Overall length 100mm

Right pair HFB245



## HFB247

Hole 10mm  
 Thickness 11.8mm  
 Width 22.2mm  
 Bend 30°  
 Overall length 51.9mm

Right pair HFB248



## HFB248

Hole 10mm  
 Thickness 11.8mm  
 Width 22.2mm  
 Bend 30°  
 Overall length 51.9mm

Left pair HFB247



## HFB249

Hole 10mm  
 Thickness 11.8mm  
 Width 22.2mm  
 Overall length 68.3mm

Right pair HFB250



## HFB250

Hole 10mm  
 Thickness 11.8mm  
 Width 22.2mm  
 Overall length 68.3mm

Left pair HFB249



# BLOCK BANJO *CONTINUED*

## HFB284

Hole	10mm
Thickness	11.5mm
Width	22.4mm
Overall length	107.4mm

| Right pair      HFB285



## HFB285

Hole	10mm
Thickness	11.5mm
Width	22.4mm
Overall length	107.4mm

| Left pair      HFB284



## HFB286

Hole	10mm
Thickness	11.5mm
Width	22.4mm
Bend	straight
Overall length	62mm



## HFB328

Hole	10mm
Thickness	7/16"
Width	22mm
Overall length	75mm

| Left pair      HFB329



## HFB329

Hole	10mm
Thickness	7/16"
Width	22mm
Overall length	75mm

| Right pair      HFB328



## HFB410

Hole	10mm
Thickness	12mm
Width	22mm
Bend	55°
Overall length	86.6mm

| Right pair      HFB411



## HFB411

Hole	10mm
Thickness	12mm
Width	22mm
Bend	55°
Overall length	86.6mm

| Left pair      HFB410



## 10 MM HOLE 25 MM WIDTH

### HFB597

Hole	10mm
Thickness	11.8mm
Width	25.4mm
Angle	straight
Overall length	46.5mm



# BLOCK BANJO *CONTINUED*

## 10 MM HOLE 26 MM WIDTH

### HFB56

Hole	10mm
Thickness	11.7 mm
Width	26mm
Angle	straight
Overall length	45mm



### HFB403

Hole	10mm
Thickness	11.5 mm
Width	26mm
Angle	straight
Overall length	52mm



## 10 MM HOLE 28 MM WIDTH

### HFB11

Hole	10mm
Thickness	16.5 mm
Width	28mm
Bend	40°
Overall length	92mm



### HFB86

Hole	10mm
Thickness	14.2 mm
Width	28.6 mm
Overall length	175mm



*left*

### HFB87

Hole	10mm
Thickness	14.2 mm
Width	28.6 mm
Overall length	175mm



*right*

| Right pair      HFB87

| Left pair      HFB86

## 11 MM HOLE 19 MM WIDTH

### HFB54

Hole	11mm
Thickness	11 mm
Width	19mm
Angle	straight
Overall length	43mm



### HFB59

Hole	11mm
Thickness	14.8 mm
Width	19.5 mm
Angle	straight
Overall length	52mm



### HFB66

Hole	11mm
Thickness	14.7 mm
Width	19mm
Angle	straight
Overall length	41 mm



### HFB72

Hole	11mm
Thickness	11 mm
Width	19mm
Angle	10°
Overall length	42mm



# BLOCK BANJO *CONTINUED*

## 11 MM HOLE 20 MM WIDTH

### HFB60

Hole	11 mm
Thickness	11.5 mm
Width	20 mm
Angle	10°
Overall length	46 mm



## 11 MM HOLE 22 MM WIDTH

### HFB61

Hole	11 mm
Thickness	14.6 mm
Width	22.2 mm
Bend	105°
Overall length	60 mm



### HFB78

Hole	11 mm
Thickness	11 mm
Width	22.2 mm
Overall length	133 mm



*left*

| Right pair      HFB79

### HFB79

Hole	11 mm
Thickness	11 mm
Width	22.2 mm
Overall length	133 mm



*right*

| Left pair      HFB78

## 11 MM HOLE 25 MM WIDTH

### HFB48

Hole	11 mm
Thickness	12.5 mm
Width	25.5 mm
Angle	15°
Overall length	49 mm



### HFB55

Hole	11 mm
Thickness	12.4 mm
Width	25 mm
Angle	straight
Overall length	47 mm



# BLOCK BANJO *CONTINUED*

## 12 MM HOLE 19 MM WIDTH

### HFB101

Hole	12mm
Thickness	8mm
Width	19mm
Bend	straight
Overall length	51mm



### HFB145

Hole	12mm
Thickness	8mm
Width	19mm
Bend	straight
Overall length	61mm



### HFB379

Hole	12mm
Thickness	8.5mm
Width	19mm
Bend	30°
Overall length	60mm



## 12 MM HOLE 22 MM WIDTH

### HFB312

Hole	12mm
Thickness	8mm
Width	22mm
Bend	30°
Overall length	57mm



## 3/8" HOLE 19 MM WIDTH

### HFB39

Hole	3/8"
Thickness	1/2"
Width	19mm
Bend	15°
Overall length	100mm



### HFB77

Hole	3/8"
Thickness	1/2"
Width	19.7mm
Overall length	143mm



### HFB90

Hole	3/8"
Thickness	7/16"
Width	19mm
Bend	35°
Overall length	75mm



# BLOCK BANJO CONTINUED

## 3/8" HOLE 20 MM WIDTH

### HFB243

Hole	3/8"
Thickness	14.9mm
Width	20.5mm
Angle	straight
Overall length	42mm



### HFB283

Hole	3/8"
Thickness	14.7mm
Width	20mm
Angle	straight
Overall length	42mm



## 3/8" HOLE 22 MM WIDTH

### HFB58

Hole	3/8"
Thickness	7/16"
Width	22.2mm
Bend	65°
Overall length	80mm



### HFB68

Hole	3/8"
Thickness	1/2"
Width	22.4mm
Bend	7°
Overall length	110mm



*left*

| Right pair      HFB69

### HFB69

Hole	3/8"
Thickness	1/2"
Width	22.4mm
Bend	7°
Overall length	110mm



*right*

| Left pair      HFB68

### HFB135

Hole	3/8"
Thickness	7/16"
Width	22.2mm
Bend	10°
Overall length	114mm



*right*

| Left pair      HFB136

### HFB136

Hole	3/8"
Thickness	7/16"
Width	22.2mm
Bend	10°
Overall length	114mm



*left*

| Right pair      HFB135

### HFB140

Hole	3/8"
Thickness	1/2"
Width	22.2mm
Bend	75°
Overall length	111mm



*left*

| Right pair      HFB141

### HFB141

Hole	3/8"
Thickness	1/2"
Width	22.2mm
Bend	75°
Overall length	111mm



*right*

| Left pair      HFB140



# BLOCK BANJO *CONTINUED*

## HFB230

Hole 3/8"  
 Thickness 7/16"  
 Width 22mm  
 Angle 10°  
 Overall length 45mm



*right*

Left pair HFB231

## HFB231

Hole 3/8"  
 Thickness 7/16"  
 Width 22mm  
 Angle 10°  
 Overall length 45mm



*left*

Right pair HFB230

## HFB277

Hole 3/8"  
 Thickness 1/2"  
 Width 22.2mm  
 Bend 90°  
 Overall length 73mm



*right*

Left pair HFB278

## HFB278

Hole 3/8"  
 Thickness 1/2"  
 Width 22.2mm  
 Bend 90°  
 Overall length 73mm



*left*

Right pair HFB277

## HFB315

Hole 3/8"  
 Thickness 1/2"  
 Width 22.2mm  
 Overall length 195mm



*left*

Right pair HFB316

## HFB316

Hole 3/8"  
 Thickness 1/2"  
 Width 22.2mm  
 Overall length 195mm



*right*

Left pair HFB315

## HFB386

Hole 3/8"  
 Thickness 1/2"  
 Width 22.2mm  
 Overall length 200mm



*left*

Right pair HFB387

## HFB387

Hole 3/8"  
 Thickness 1/2"  
 Width 22.2mm  
 Overall length 200mm



*right*

Left pair HFB386

## HFB418

Hole 3/8"  
 Thickness 7/16"  
 Width 22.2mm  
 Bend 60°  
 Overall length 80mm



*left*

Right pair HFB419

## HFB419

Hole 3/8"  
 Thickness 7/16"  
 Width 22.2mm  
 Bend 60°  
 Overall length 80mm



*right*

Left pair HFB418



# BLOCK BANJO CONTINUED

## 3/8" HOLE 23 MM WIDTH

### HFB193

Hole	3/8"
Thickness	1/2"
Width	23 mm
Bend	10°
Overall length	110 mm



### HFB209

Hole	3/8"
Thickness	1/2"
Width	23 mm
Overall length	180 mm



Right pair HFB210

### HFB210

Hole	3/8"
Thickness	1/2"
Width	23 mm
Overall length	180 mm



Left pair HFB209

### HFB323

Hole	3/8"
Thickness	1/2"
Width	23.1 mm
Bend	90°
Overall length	63 mm



Right pair HFB324

### HFB324

Hole	3/8"
Thickness	1/2"
Width	23.1 mm
Bend	90°
Overall length	63 mm



Left pair HFB323

### HFB430

Hole	3/8"
Thickness	12.5 mm
Width	23.3 mm
Overall length	143.8 mm



Left pair HFB431

### HFB431

Hole	3/8"
Thickness	12.5 mm
Width	23.3 mm
Overall length	143.8 mm



Right pair HFB430

## 3/8" HOLE 24 MM WIDTH

### HFB322

Hole	3/8"
Thickness	1/2"
Width	24.4 mm
Overall length	105 mm



# BLOCK BANJO *CONTINUED*

## 3/8" HOLE 25 MM WIDTH

### HFB131

Hole 3/8"  
 Thickness 1/4"  
 Width 25 mm  
 Overall length 148 mm



| Left pair HFB132

### HFB132

Hole 3/8"  
 Thickness 1/4"  
 Width 25 mm  
 Overall length 148 mm



| Right pair HFB131

### HFB148

Hole 3/8"  
 Thickness 1/2"  
 Width 25.4 mm  
 Bend 85°  
 Overall length 120.7 mm



### HFB155

Hole 3/8"  
 Thickness 1/2"  
 Width 25 mm  
 Bend 70°  
 Overall length 190 mm



| Left pair HFB156

### HFB156

Hole 3/8"  
 Thickness 1/2"  
 Width 25 mm  
 Bend 70°  
 Overall length 190 mm



| Right pair HFB155

### HFB203

Hole 3/8"  
 Thickness 11 mm  
 Width 25 mm  
 Bend 35°  
 Overall length 75 mm



### HFB221

Hole 3/8"  
 Thickness 1/2"  
 Width 25.5 mm  
 Bend 90°  
 Overall length 180 mm



| Right pair HFB222

### HFB222

Hole 3/8"  
 Thickness 1/2"  
 Width 25.5 mm  
 Bend 90°  
 Overall length 180 mm



| Left pair HFB221

# BLOCK BANJO *CONTINUED*

## HFB270

Hole	3/8"
Thickness	1/2"
Width	25.4 mm
Overall length	60.3 mm



## HFB380

Hole	3/8"
Thickness	7/16"
Width	25.4 mm
Bend	60°
Overall length	165 mm



*left*

| Right pair      HFB381

## HFB381

Hole	3/8"
Thickness	7/16"
Width	25.4 mm
Bend	60°
Overall length	165 mm



*right*

| Left pair      HFB380

## HFB384

Hole	3/8"
Thickness	12.5 mm
Width	25.4 mm
Angle	straight
Overall length	45 mm



## HFB623

Hole	3/8"
Thickness	1/2"
Width	25.4 mm
Overall length	162 mm



*right*

| Left pair      HFB624

## HFB624

Hole	3/8"
Thickness	1/2"
Width	25.4 mm
Overall length	162 mm



*left*

| Right pair      HFB623

## 3/8" HOLE 26 MM WIDTH

### HFB306

Hole	3/8"
Thickness	15.3 mm
Width	26 mm
Overall length	134 mm



*right*

| Left pair      HFB307

### HFB307

Hole	3/8"
Thickness	15.3 mm
Width	26 mm
Overall length	134 mm



*left*

| Right pair      HFB306

# BLOCK BANJO *CONTINUED*

---

## 3/8" HOLE 28 MM WIDTH

### HFB67

Hole	3/8"
Thickness	1/2"
Width	28 mm
Angle	straight
Overall length	48 mm



---

## 7/16" HOLE 22 MM WIDTH

### HFB276

Hole	7/16"
Thickness	14.7 mm
Width	22.2 mm
Bend	90°
Overall length	65 mm

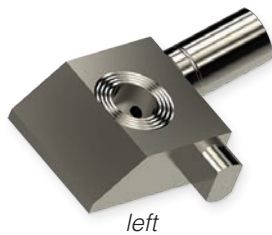


---

## 7/16" HOLE 32 MM WIDTH

### HFB165

Hole	7/16"
Thickness	14.7 mm
Width	32.5 mm
Angle	20°
Overall length	65 mm



| Right pair      HFB166

### HFB166

Hole	7/16"
Thickness	14.7 mm
Width	32.5 mm
Angle	20°
Overall length	65 mm



| Left pair      HFB165

# ROUND BANJO

## 8 MM HOLE 14 MM WIDTH

### HFB27

Hole	8 mm
Thickness	6 mm
Width	14 mm
Bend	straight
Overall length	53 mm



*bendable to 45°*

Low profile      LPB27-8M

## 8 MM HOLE 21 MM WIDTH

### HFB111

Hole	8 mm
Thickness	13.5 mm
Width	21 mm
Angle	straight
Overall length	40 mm



## 10 MM HOLE 17 MM WIDTH

### HFB01

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	straight
Overall length	54 mm



*bendable to 45°*

Low profile      LPB01-10M  
LP chrome      LPB01-10MC  
LP stainless      LPB01-10MSS

### HFB03

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	straight
Overall length	66 mm



*bendable to 45°*

### HFB05

Hole	10 mm
Thickness	10 mm
Width	17 mm
Bend	straight
Overall length	65 mm



*bendable to 45°*

### HFB29

Hole	10 mm
Thickness	10 mm
Width	17 mm
Bend	40°
Overall length	52 mm



### HFB32

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	90°
Overall length	39 mm



Low profile      LPB01-90-10M

### HFB33

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	75°
Overall length	60 mm



# ROUND BANJO *CONTINUED*

## HFB34

Hole 10mm  
 Thickness 8mm  
 Width 17mm  
 Bend straight  
 Overall length 62.5mm



*bendable to 90°*

Stainless HFB34SS

## HFB35

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend straight  
 Overall length 80mm



*bendable to 90°*

## HFB50

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend straight  
 Overall length 50mm



*left  
 bendable to 45°*

Right pair HFB73

## HFB73

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend straight  
 Overall length 50mm



*right  
 bendable to 45°*

Left pair HFB50

## HFB75

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 90°  
 Overall length 61mm



## HFB288

Hole 10mm  
 Thickness 8mm  
 Width 17mm  
 Bend straight  
 Overall length 61mm



*bendable to 45°*

## HFB342

Hole 10mm  
 Thickness 8mm  
 Width 17mm  
 Bend 15°  
 Overall length 60mm



*right*

Left pair HFB343

## HFB343

Hole 10mm  
 Thickness 8mm  
 Width 17mm  
 Bend 15°  
 Overall length 60mm



*left*

Right pair HFB342

## HFB344

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend straight  
 Overall length 58mm



*bendable to 45°*

# ROUND BANJO *CONTINUED*

## HFB358

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	75°
Overall length	45 mm



*left*

| Right pair      HFB359

## HFB359

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	75°
Overall length	45 mm



*right*

| Left pair      HFB358

## HFB366

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	20°
Overall length	47.8 mm



## HFB530

Hole	10 mm
Thickness	10 mm
Width	17 mm
Bend	15°
Overall length	82 mm



## HFB544

Hole	10 mm
Thickness	10 mm
Width	17 mm
Overall length	89 mm



## HFB545

Hole	10 mm
Thickness	10 mm
Width	17 mm
Overall length	108 mm



*left*

| Right pair      HFB546

## HFB546

Hole	10 mm
Thickness	10 mm
Width	17 mm
Overall length	108 mm



*right*

| Left pair      HFB545

# ROUND BANJO *CONTINUED*

## HFB547

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Overall length 102mm



*left*

| Right pair HFB548

## HFB548

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Overall length 102mm



*right*

| Left pair HFB547

## HFB551

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 45°  
 Overall length 82mm



*left*

| Right pair HFB552

## HFB552

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 45°  
 Overall length 82mm



*right*

| Left pair HFB551

## HFB553

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 90°  
 Overall length 47mm



*left*

| Right pair HFB554

## HFB554

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 90°  
 Overall length 47mm



*right*

| Left pair HFB553

## HFB555

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 85°  
 Overall length 59mm



*left*

| Right pair HFB556

## HFB556

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend 85°  
 Overall length 59mm



*right*

| Left pair HFB555

## HFB557

Hole 10mm  
 Thickness 10mm  
 Width 17mm  
 Bend straight  
 Overall length 75mm



*bendable to 45°*



# ROUND BANJO *CONTINUED*

## HFB558

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Bend 90°  
 Overall length 50 mm

*left*

| Right pair HFB559

## HFB559

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Bend 90°  
 Overall length 50 mm

*right*

| Left pair HFB558

## HFB562

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Bend 45°  
 Overall length 66.8 mm

*left*

| Right pair HFB563

## HFB563

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Bend 45°  
 Overall length 66.8 mm

*right*

| Left pair HFB562

## HFB567

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Bend 20°  
 Overall length 66.6 mm

*left*

| Right pair HFB568

## HFB568

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Bend 20°  
 Overall length 66.6 mm

*right*

| Left pair HFB567

## HFB569

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Overall length 48.8 mm

*left*

| Right pair HFB570

## HFB570

Hole 10 mm  
 Thickness 10 mm  
 Width 17 mm  
 Overall length 48.8 mm

*right*

| Left pair HFB569

# ROUND BANJO *CONTINUED*

## 10 MM HOLE 18 MM WIDTH

### HFB02

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend straight  
 Overall length 64mm



*bendable to 45°*

### HFB09

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend straight  
 Overall length 55mm



*bendable to 45°*

Stainless	HFB09SS
Low profile	LPB09-10M
LP chrome	LPB09-10MC
LP stainless	LPB09-10MSS

### HFB15

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend straight  
 Overall length 52mm



*bendable to 45°*

### HFB28

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend straight  
 Overall length 54mm



*bendable to 45°*

### HFB37

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend straight  
 Overall length 64mm



*bendable to 90°*

Stainless HFB37SS

### HFB92

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Overall length 90mm



*left*

Right pair HFB93

### HFB93

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Overall length 90mm



*right*

Left pair HFB92

# ROUND BANJO *CONTINUED*

## HFB194

Hole	10mm
Thickness	10mm
Width	18mm
Bend	straight
Overall length	92mm



| Low profile      LPB455-10M

## HFB340

Hole	10mm
Thickness	10mm
Width	18mm
Bend	45°
Overall length	100mm



## HFB345

Hole	10mm
Thickness	10mm
Width	18mm
Bend	50°
Overall length	45mm



## HFB348

Hole	10mm
Thickness	15mm
Width	18mm
Bend	30°
Overall length	50mm



*left*

| Right pair      HFB349

## HFB349

Hole	10mm
Thickness	15mm
Width	18mm
Bend	30°
Overall length	50mm



*right*

| Left pair      HFB348

## HFB351

Hole	10mm
Thickness	10mm
Width	18mm
Bend	straight
Overall length	55mm



*left*

*bendable to 45°*

| Right pair      HFB352

## HFB352

Hole	10mm
Thickness	10mm
Width	18mm
Bend	straight
Overall length	55mm



*right*

*bendable to 45°*

| Left pair      HFB351

## HFB353

Hole	10mm
Thickness	8mm
Width	18mm
Bend	75°
Overall length	60mm



*right*

| Left pair      HFB354

## HFB354

Hole	10mm
Thickness	8mm
Width	18mm
Bend	75°
Overall length	60mm



*left*

| Right pair      HFB353

# ROUND BANJO *CONTINUED*

## HFB357

Hole 10mm  
 Thickness 8mm  
 Width 18mm  
 Bend 40°  
 Overall length 60mm



## HFB362

Hole 10mm  
 Thickness 8mm  
 Width 18mm  
 Bend 80°  
 Overall length 45mm



*left*

## HFB363

Hole 10mm  
 Thickness 8mm  
 Width 18mm  
 Bend 80°  
 Overall length 45mm



*right*

| Right pair HFB363

| Left pair HFB362

## HFB364

Hole 10mm  
 Thickness 8mm  
 Width 18mm  
 Bend 75°  
 Overall length 50mm



## HFB373

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 55°  
 Overall length 65mm



## HFB375

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend straight  
 Overall length 65mm



*bendable to 45°*

## HFB456

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 90°  
 Overall length 48mm



*right*

## HFB457

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 90°  
 Overall length 48mm



*left*

| Left pair HFB457

| Right pair HFB456

# ROUND BANJO *CONTINUED*

## HFB519

Hole	10mm
Thickness	10mm
Width	18mm
Bend	15°
Overall length	60mm



## HFB523

Hole	10mm
Thickness	10mm
Width	18mm
Bend	straight
Overall length	60mm



*bendable to 45°*

## HFB527

Hole	10mm
Thickness	10mm
Width	18mm
Bend	straight
Overall length	60mm



*bendable to 45°*

## HFB528

Hole	10mm
Thickness	10mm
Width	18mm
Bend	straight
Overall length	55mm



## HFB534

Hole	10mm
Thickness	10mm
Width	18mm
Bend	75°
Overall length	60mm



## HFB535

Hole	10mm
Thickness	10mm
Width	18mm
Bend	30°
Overall length	60mm



*left*

| Right pair      HFB536

## HFB536

Hole	10mm
Thickness	10mm
Width	18mm
Bend	30°
Overall length	60mm



*right*

| Left pair      HFB535

## HFB537

Hole	10mm
Thickness	10mm
Width	18mm
Bend	45°
Overall length	60mm



*left*

| Right pair      HFB538

## HFB538

Hole	10mm
Thickness	10mm
Width	18mm
Bend	45°
Overall length	60mm



*right*

| Left pair      HFB537

# ROUND BANJO *CONTINUED*

## HFB539

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 40°  
 Overall length 40mm



| Right pair HFB540

## HFB540

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 40°  
 Overall length 40mm



| Left pair HFB539

## HFB541

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 25°  
 Overall length 64mm



| Right pair HFB542

## HFB542

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 25°  
 Overall length 64mm



| Left pair HFB541

## HFB573

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 30°  
 Overall length 49.1mm



| Right pair HFB574

## HFB574

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 30°  
 Overall length 49.1mm



| Left pair HFB573

## 10 MM HOLE 19 MM WIDTH

### HFB10

Hole 10mm  
 Thickness 9.5mm  
 Width 19mm  
 Bend 70°  
 Overall length 68.3mm



## 10 MM HOLE 20 MM WIDTH

### HFB533

Hole 10mm  
 Thickness 14mm  
 Width 20mm  
 Angle straight  
 Overall length 50mm



# ROUND BANJO *CONTINUED*

## 11 MM HOLE 19MM WIDTH

### HFB150

Hole	11 mm
Thickness	8.5 mm
Width	19 mm
Overall length	192 mm



## 11 MM HOLE 25 MM WIDTH

### HFB158

Hole	11 mm
Thickness	14.9 mm
Width	25.4 mm
Bend	35°
Overall length	57 mm



| Right pair      HFB159

### HFB159

Hole	11 mm
Thickness	14.9 mm
Width	25.4 mm
Bend	35°
Overall length	57 mm



| Left pair      HFB158

## 12 MM HOLE 19MM WIDTH

### HFB47

Hole	12 mm
Thickness	10 mm
Width	19 mm
Bend	straight
Overall length	55 mm



| Stainless      HFB47SS  
| Low profile      LPB47-12M

## 15 MM HOLE 25 MM WIDTH

### HFB19

Hole	15 mm
Thickness	13.5 mm
Width	25 mm
Angle	straight
Overall length	45 mm



# ROUND BANJO *CONTINUED*

## 3/8" HOLE 21 MM WIDTH

### HFB105

Hole 3/8"  
 Thickness 1/2"  
 Width 21 mm  
 Overall length 113 mm



*left*

| Right pair HFB106

### HFB106

Hole 3/8"  
 Thickness 1/2"  
 Width 21 mm  
 Overall length 113 mm



*right*

| Left pair HFB105

## 7/16" HOLE 19 MM WIDTH

### HFB448

Hole 7/16"  
 Thickness 10 mm  
 Width 19 mm  
 Bend straight  
 Overall length 60 mm



*bendable to 90°*

| Low profile LPB448-7  
 | LP stainless LPB448-7SS

### HFB679

Hole 7/16"  
 Thickness 10 mm  
 Width 19 mm  
 Bend 45°  
 Overall length 64 mm



### HFB681

Hole 7/16"  
 Thickness 10 mm  
 Width 19 mm  
 Bend 90°  
 Overall length 50.9 mm



| Low profile LPB448-90-7

### HFB682

Hole 7/16"  
 Thickness 10 mm  
 Width 19 mm  
 Bend 35°  
 Overall length 46.1 mm



*side bend*

| Low profile LPB652



# IMPERIAL FEMALE

## BOLT MOUNT 3/8-24 UNF

 *Inverted seat*

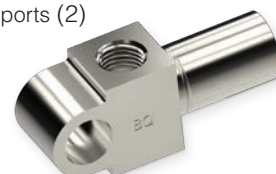
### HFIF23

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 11.9mm  
Overall length 65mm



### HFIF25

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 10mm  
Overall length 49mm



### HFIF34

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 8-10mm  
Overall length 49mm



### HFIF37

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 12mm  
Overall length 53mm



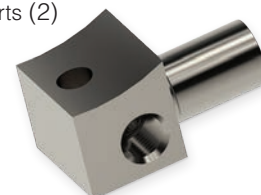
### HFIF39

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 11.8mm  
Overall length 52mm



### HFIF43

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 7.3mm  
Overall length 22mm



### HFIF47

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 12mm  
Overall length 50mm



### HFIF53

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 11.8mm  
Overall length 53mm



### HFIF55

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Mount hole 15mm  
Overall length 58mm



# IMPERIAL FEMALE CONTINUED

## *Inverted seat*

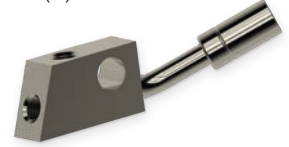
### HFIF56

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	11.8mm
Overall length	55mm



### HFIF66

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	11.9mm
Bend	30°
Overall length	93mm



### HFIF80

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	11.8mm
Overall length	52mm



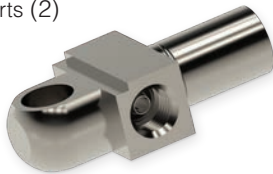
### HFIF88

Thread	3/8-24 UNF port
Seat type	inverted
Mount hole	11.6mm
Overall length	51mm



### HFIF94

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	8-10mm
Overall length	58mm



### HFIF110

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	12mm
Overall length	54mm



### HFIF129

Thread	3/8-24 UNF port
Seat type	inverted
Mount hole	8.75mm
Bend	straight
Overall length	75mm



### HFIF180

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	11.9mm
Overall length	56mm



## BOLT MOUNT 3/8-24 UNF + 7/16-24 UNS

### *Inverted seat*

### HFIF28

Threads	3/8-24 UNF port 7/16-24 UNS port
Seat type	inverted
Mount hole	11.8mm
Overall length	52mm



### HFIF31

Threads	3/8-24 UNF port 7/16-24 UNS port
Seat type	inverted
Mount hole	11.9mm
Overall length	52mm



# IMPERIAL FEMALE CONTINUED

 *Inverted seat*

## HFIF48

Threads	3/8-24 UNF port 7/16-24 UNS port
Seat type	inverted
Mount hole	11.5 mm
Overall length	53 mm



## BOLT MOUNT 7/16-24 UNS

 *Inverted seat*

### HFIF46

Thread	7/16-24 UNS port
Seat type	inverted
Mount hole	10 mm
Overall length	60 mm



### HFIF54

Thread	7/16-24 UNS port
Seat type	inverted
Mount hole	11.9 mm
Angle	90°
Overall length	51 mm



### HFIF57

Thread	7/16-24 UNS ports (2)
Seat type	inverted
Mount hole	8-10 mm
Overall length	54 mm



### HFIF111

Thread	7/16-24 UNS ports (2)
Seat type	inverted
Mount hole	12 mm
Overall length	51 mm



### HFIF157

Thread	7/16-24 UNS ports (2)
Seat type	inverted
Mount hole	10 mm
Overall length	53 mm



# IMPERIAL FEMALE CONTINUED

## BOLT MOUNT 1/2-20 UNF

 *Inverted seat*

### HFIF77

Thread	1/2-20 UNF port
Seat type	inverted
Mount hole	6 mm
Overall length	42 mm



## BRACKET MOUNT 3/8-24 UNF

 *Inverted seat*

### HFIF15

Thread	3/8-24 UNF port
Seat type	inverted
Overall length	46 mm



### HFIF22

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Overall length	41 mm



### HFIF60A

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Overall length	42 mm



### HFIF70

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Overall length	48 mm



### HFIF90

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Overall length	37 mm



### HFIF99

Thread	3/8-24 UNF ports (2)
Seat type	inverted
Overall length	56 mm



### HFIF120

Thread	3/8-24 UNF port
Seat type	inverted
Hex	5/8"
Overall length	42 mm



### HFIF146

Thread	3/8-24 UNF port
Seat type	inverted
Bend	20°
Overall length	140 mm



*Use with wire brackets (such as BQB415).*

# IMPERIAL FEMALE *CONTINUED*

 *Inverted seat*

## HFIF147

Thread 3/8-24 UNF port  
Seat type inverted  
Bend 20°  
Overall length 20 mm



## HFIF148

Thread 3/8-24 UNF port  
Seat type inverted  
Overall length 52.5 mm



## HFIF149

Thread 3/8-24 UNF port  
Seat type inverted  
Overall length 52.5 mm



## HFIF152

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Overall length 47 mm



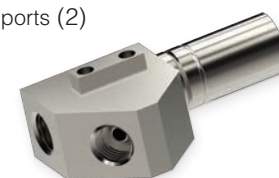
## HFIF153

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Overall length 57 mm



## HFIF304

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Overall length 51 mm



# BACKET MOUNT 7/16-24 UNS

 *Inverted seat*

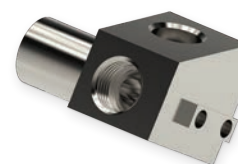
## HFIF52

Thread 7/16-24 UNS port  
Seat type inverted  
Overall length 46 mm



## HFIF109

Thread 7/16-24 UNS ports (2)  
Seat type inverted  
Overall length 46 mm



## HFIF138

Thread 7/16-24 UNS ports (2)  
Seat type inverted  
Overall length 53 mm



/// Find **Bracket Retaining Screws, BQ71**, on page 19.

# IMPERIAL FEMALE CONTINUED

## BULKHEAD MOUNT 1/8-27 NPT

### HFIFX20

Thread	1/8-27 NPT port
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	45mm



## BULKHEAD MOUNT 3/8-20 BSF

### HFIFX03

Thread	3/8-20 BSF port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	45mm



## BULKHEAD MOUNT 3/8-24 UNF



*Drill-point seat*

### HFIFX05

Thread	3/8-24 UNF port
Seat type	drill-point
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	45mm



*Inverted seat*

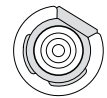
### HFIFX02

Thread	3/8-24 UNF port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	45mm



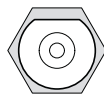
### HFIFX11

Thread	3/8-24 UNF port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	48mm



### HFIFX14

Thread	3/8-24 UNF port
Seat type	inverted
Mount thread	3/4-16 UNF
Hex	7/8"
Overall length	45mm



### HFIFX15

Thread	3/8-24 UNF port
Seat type	inverted
Mount thread	5/8-18 UNF
Flats	16mm
Overall length	47mm



/// Bulkhead nuts are on page 148.



# IMPERIAL FEMALE CONTINUED

## BULKHEAD MOUNT 7/16-20 UNF

 *Inverted seat*

### HFIFX04

Thread	7/16-20 UNF port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	45mm



## BULKHEAD MOUNT 7/16-24 UNS

 *Inverted seat*

### HFIFX01

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	19mm
Overall length	45mm



Low profile  
\*LP stem

LPIFX01 \*  
LPS-LI-SAE

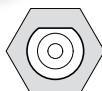
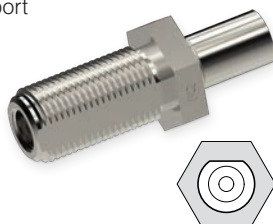
### HFIFX06

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	16mm
Overall length	46mm



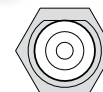
### HFIFX07

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	3/4-16 UNF
Hex	1"
Overall length	65mm



### HFIFX12

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	7/8"
Overall length	54mm



### HFIFX16

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	3/4-16 UNF
Hex	7/8"
Overall length	45mm



### HFIFX19

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	7/8-14 UNF
Hex	1"
Overall length	61mm

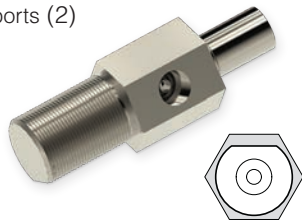


# IMPERIAL FEMALE CONTINUED

 *Inverted seat*

## HFIFX21

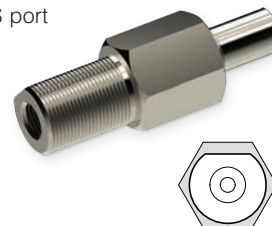
Thread	7/16-24 UNS ports (2)
Seat type	inverted
Mount thread	7/8-18 UNS
Hex	1"
Overall length	80 mm



Secure with BQ89 nut.

## HFIFX22

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	7/8-14 UNF
Hex	1"
Overall length	80 mm



## HFIFX23

Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	5/8"
Overall length	46 mm



# BULKHEAD MOUNT 1/2-20 UNF

 *Inverted seat*

## HFIFX09

Thread	1/2-20 UNF port
Seat type	inverted
Mount thread	11/16-18 UNF
Hex	7/8"
Overall length	46 mm



/// Bulkhead nuts are on page 148.

Not all clip-mount fittings come with an e-clip. The fitting will be pictured with a clip if the clip is included.

# CLIP MOUNT 3/8-24 UNF

 *Drill-point seat*

## HFIF21

Thread	3/8-24 UNF port
Seat type	drill-point
Flats	16 mm
Overall length	37 mm





# IMPERIAL FEMALE *CONTINUED*

 **Inverted seat**

### HFIF01

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 19mm  
Overall length 38mm



- Brass HFIF01B
- Stainless HFIF01SS
- Low profile LPIF01, LPIF01-6\*
- LP chrome LPIF01-6C\*
- LP stainless LPIF01-6SS\*
- \*LP stem LPS-SI-SAE
- Alternative HFIF36

### HFIF01B

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 17mm  
Overall length 38mm



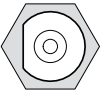
brass

### HFIF05

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 19mm  
Overall length 38mm



- Low profile LPIF05\*
- \*LP stem LPS-SI-SAE
- Alternative HFIF45



### HFIF07

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 16mm  
Overall length 41mm



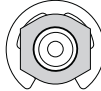
### HFIF08

Thread 3/8-24 UNF port  
Seat type inverted  
Flats 16mm  
Overall length 41mm



### HFIF10

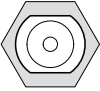
Thread 3/8-24 UNF port  
Seat type inverted  
Flats 16mm  
Overall length 39mm



- Low Profile LPIF10
- \*LP stem LPS-LI-SAE

### HFIF11

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 19mm  
Overall length 38mm



### HFIF14

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Hex 19mm  
Overall length 50mm



/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.

# IMPERIAL FEMALE CONTINUED

 *Inverted seat*

## HFIF18

Thread 3/8-24 UNF port  
 Seat type inverted  
 Overall length 41 mm



## HFIF19

Thread 3/8-24 UNF port  
 Seat type inverted  
 Flats 16 mm  
 Overall length 38 mm



## HFIF26

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 5/8"  
 Overall length 40 mm



## HFIF32

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 17 mm  
 Overall length 41 mm



## HFIF36

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 16 mm  
 Overall length 39 mm



Stainless HFIF36SS  
 Alternative HFIF01

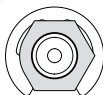
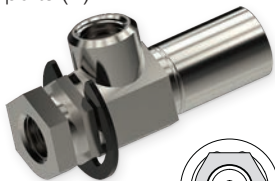
## HFIF38

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 11/16"  
 Overall length 40 mm



## HFIF40

Thread 3/8-24 UNF ports (2)  
 Seat type inverted  
 Flats 16 mm  
 Overall length 48 mm



## HFIF45

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 16 mm  
 Overall length 39 mm



Alternative HFIF05



## HFIF71

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 5/8"  
 Overall length 45 mm



## HFIF72

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 17 mm  
 Overall length 47 mm

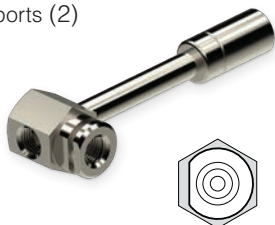


# IMPERIAL FEMALE CONTINUED

## *Inverted seat*

### HFIF74

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Hex 19 mm  
Overall length 92 mm



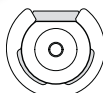
### HFIF83

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 17 mm  
Bend 90°  
Overall length 55 mm



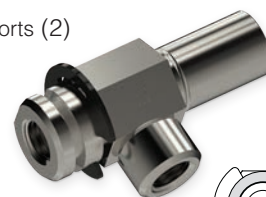
### HFIF85

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 11/16"  
Bend 70°  
Overall length 117.7 mm



### HFIF87

Thread 3/8-24 UNF ports (2)  
Seat type inverted  
Hex 11/16"  
Overall length 50 mm



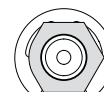
### HFIF103

Thread 3/8-24 UNF port  
Seat type inverted  
Bend 60°  
Overall length 52 mm



### HFIF106

Thread 3/8-24 UNF port  
Seat type inverted  
Flats 5/8"  
Bend 60°  
Overall length 68 mm



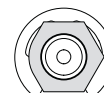
### HFIF140

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 17 mm  
Bend 55°  
Overall length 64 mm



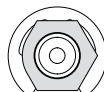
### HFIF143

Thread 3/8-24 UNF port  
Seat type inverted  
Flats 5/8"  
Bend 60°  
Overall length 68 mm



### HFIF301

Thread 3/8-24 UNF port  
Seat type inverted  
Flats 16 mm  
Overall length 43 mm



### HFIF334B

Thread 3/8-24 UNF port  
Seat type inverted  
Hex 16 mm  
Overall length 41 mm



*brass*

/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.

# IMPERIAL FEMALE CONTINUED

## CLIP MOUNT 7/16-20 UNF

 *Inverted seat*

### HFIF141

Thread 7/16-20 UNF port  
 Seat type inverted  
 Hex 16mm  
 Overall length 46mm



### HFIF172

Thread 7/16-20 UNF port  
 Seat type inverted  
 Hex 7/8"  
 Overall length 38mm



## CLIP MOUNT 7/16-24 UNS

 *Inverted seat*

### HFIF02

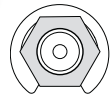
Thread 7/16-24 UNS port  
 Seat type inverted  
 Hex 19mm  
 Overall length 38mm



Low profile LPIF02-7\*  
 \*LP stem LPS-SI-SAE  
 Alternative HFIF24

### HFIF09

Thread 7/16-24 UNS port  
 Seat type inverted  
 Hex 16mm  
 Overall length 45mm



### HFIF20

Thread 7/16-24 UNS port  
 Seat type inverted  
 Flats 16mm  
 Overall length 44mm



### HFIF24

Thread 7/16-24 UNS port  
 Seat type inverted  
 Hex 16mm  
 Overall length 45mm



Alternative HFIF02

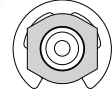
### HFIF33

Thread 7/16-24 UNS port  
 Seat type inverted  
 Hex 17mm  
 Overall length 41mm



### HFIF35

Thread 7/16-24 UNS port  
 Seat type inverted  
 Flats 16mm  
 Overall length 46mm



# IMPERIAL FEMALE CONTINUED

## *Inverted seat*

### HFIF51

Thread	7/16-24 UNS port
Seat type	inverted
Hex	11/16"
Overall length	46 mm



### HFIF73

Thread	7/16-24 UNS port
Seat type	inverted
Hex	17 mm
Overall length	47 mm



### HFIF116

Thread	7/16-24 UNS port
Seat type	inverted
Hex	5/8"
Bend	70°
Overall length	74.7 mm



### HFIF142

Thread	7/16-24 UNS port
Seat type	inverted
Flats	16 mm
Overall length	68 mm



## CLIP MOUNT 1/2-20 UNF

## *Inverted seat*

### HFIF79

Thread	1/2-20 UNF port
Seat type	inverted
Hex	5/8"
Overall length	45 mm



/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.

## STANDARD 1/2-20 UNF

## *Drill-point seat*

### HFIF03

Thread	1/2-20 UNF port
Seat type	drill-point
Hex	3/4"
Overall length	50 mm



## *Inverted seat*

### HFIF06

Thread	1/2-20 UNF port
Seat type	inverted
Hex	17 mm
Overall length	38 mm



# METRIC FEMALE

## BOLT MOUNT M10×1

 *Drill-point seat*

### HFMF50

Thread M10×1 ports (2)  
Seat type drill-point  
Mount hole 8-10mm  
Overall length 48mm



### HFMF328

Thread M10×1 port  
Seat type drill-point  
Mount hole 5.5mm  
Mount thread M8×1.25  
Overall length 46mm



 *Inverted seat*

### HFMF18

Thread M10×1 ports (2)  
Seat type inverted  
Mount hole 8.5mm  
Overall length 55mm



### HFMF48

Thread M10×1 port  
Seat type inverted  
Mount hole 8.75mm  
Overall length 53mm



| Low profile LPMF48

### HFMF69

Thread M10×1 port  
Seat type inverted  
Mount hole 6.4mm  
Overall length 62mm

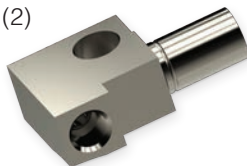


## BOLT MOUNT M11×1.5

 *Inverted seat*

### HFMF79

Thread M11×1.5 ports (2)  
Seat type inverted  
Mount hole 11.9mm  
Overall length 56mm





# METRIC FEMALE CONTINUED

## BRACKET MOUNT M10×1

### Drill-point seat

#### HFMF40

Thread M10×1 port  
Seat type drill-point  
Overall length 42 mm



#### HFMF70

Thread M10×1 ports (2)  
Seat type drill-point  
Overall length 54 mm



#### HFMF90

Thread M10×1 ports (2)  
Seat type drill-point  
Overall length 48 mm



#### HFMF364

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 115 mm



*left*

| Right pair HFMF365

#### HFMF365

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 115 mm



*right*

| Left pair HFMF364

#### HFMF371

Thread M10×1 port  
Seat type drill-point  
Mount hole 8.5 mm × 11 mm  
Overall length 35 mm



#### HFMF380

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 148 mm



### Inverted seat

#### HFMF317

Thread M10×1 port  
Seat type inverted  
Mount hole 4.1 mm × 10 mm  
Overall length 48 mm



#### HFMF324

Thread M10×1 port  
Seat type inverted  
Mount hole 8.8 mm (2)  
Hex 19 mm  
Overall length 46 mm



/// Find **Bracket Retaining Screws, BQ71**, on page 19.

# METRIC FEMALE CONTINUED

## Inverted seat

### HFMF325

Thread	M10×1 port
Seat type	inverted
Mount hole	9.1mm
Overall length	45mm



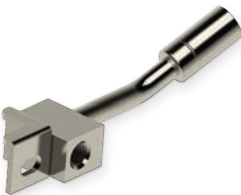
### HFMF326

Thread	M10×1 port
Seat type	inverted
Mount hole	8.3mm
Overall length	34mm



### HFMF342

Thread	M10×1 port
Seat type	inverted
Bend	25°
Overall length	100mm

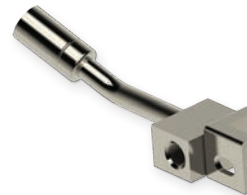


| Right pair      HFMF343

*left*

### HFMF343

Thread	M10×1 port
Seat type	inverted
Bend	25°
Overall length	100mm



| Left pair      HFMF342

*right*

## BRACKET MOUNT M10×1.5

### Inverted seat

### HFMF396

Thread	M10×1.5 port
Seat type	inverted
Overall length	44mm



Not all clip-mount fittings come with an e-clip. The fitting will be pictured with a clip if the clip is included.

## CLIP MOUNT M9×1

### Inverted seat

### HFMF12

Thread	M9×1 port
Seat type	inverted
Hex	16mm
Overall length	47mm



/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.



# METRIC FEMALE CONTINUED

## CLIP MOUNT M10×1

 *Drill-point seat*

### HFMF03

Thread M10×1 port  
Seat type drill-point  
Hex 19mm  
Overall length 46mm



### HFMF05

Thread M10×1 port  
Seat type drill-point  
Hex 14mm  
Overall length 38mm



Low profile LPMF05-M10X1\*  
LP zinc-nickel LPMF05-M10X1Z\*  
\*LP stem LPS-SD-DIN

### HFMF08

Thread M10×1 port  
Seat type drill-point  
Hex 17mm  
Overall length 41mm



Low profile LPMF08-M10X1\*  
\*LP stem LPS-SD-DIN

### HFMF24

Thread M10×1 port  
Seat type drill-point  
Flats 19mm  
Overall length 38mm



Low profile LPMF24\*  
\*LP stem LPS-SD-DIN

### HFMF35

Thread M10×1 port  
Seat type drill-point  
Flats 19mm  
Overall length 37mm



### HFMF38

Thread M10×1 port  
Seat type drill-point  
Flats 16mm  
Overall length 37mm



### HFMF39

Thread M10×1 port  
Seat type drill-point  
Flats 16mm  
Overall length 39mm



### HFMF54

Thread M10×1 port  
Seat type drill-point  
Flats 15.5mm  
Overall length 37mm



### HFMF55

Thread M10×1 port  
Seat type drill-point  
Hex 19mm  
Overall length 46mm



### HFMF58

Thread M10×1 port  
Seat type drill-point  
Hex 17mm  
Overall length 54mm



# METRIC FEMALE *CONTINUED*

## Drill-point seat

### HFMF59

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 38 mm



### HFMF62

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 39 mm



### HFMF63

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 39 mm



### HFMF65

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 39 mm



### HFMF71

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 39 mm



### HFMF96

Thread M10×1 port  
Seat type drill-point  
Hex 5/8"  
Overall length 38 mm



### HFMF99

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 45 mm



### HFMF100

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 39 mm



### HFMF123

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Overall length 39 mm



### HFMF124

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 45 mm



### HFMF327

Thread M10×1 port  
Seat type drill-point  
Overall length 39 mm



### HFMF329

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 38 mm



# METRIC FEMALE CONTINUED

## Drill-point seat

### HFMF340

Thread M10×1 port  
Seat type drill-point  
Flats 15 mm  
Overall length 37 mm



### HFMF363

Thread M10×1 port  
Seat type drill-point  
Flats 17 mm  
Overall length 38 mm



### HFMF367

Thread M10×1 port  
Seat type drill-point  
Overall length 38 mm



### HFMF368

Thread M10×1 port  
Seat type drill-point  
Overall length 38 mm



### HFMF369

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Bend 5°  
Overall length 66 mm



| Right pair HFMF370

### HFMF370

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Bend 20°  
Overall length 66 mm



| Left pair HFMF369

### HFMF372

Thread M10×1 port  
Seat type drill-point  
Overall length 37 mm



### HFMF375

Thread M10×1 port  
Seat type drill-point  
Hex 15 mm  
Overall length 36 mm



### HFMF381

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Bend 45°  
Overall length 57 mm



### HFMF382

Thread M10×1 port  
Seat type drill-point  
Hex 17 mm  
Bend 20°  
Overall length 57 mm



/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.

# METRIC FEMALE CONTINUED

 **Drill-point seat**

## HFMF383

Thread M10×1 port  
 Seat type drill-point  
 Hex 17 mm  
 Overall length 109 mm



left

Right pair HFMF384

## HFMF384

Thread M10×1 port  
 Seat type drill-point  
 Hex 17 mm  
 Overall length 109 mm



right

Left pair HFMF383

## HFMF385

Thread M10×1 port  
 Seat type drill-point  
 Hex 17 mm  
 Bend 45°  
 Overall length 58 mm



left

Right pair HFMF386

## HFMF386

Thread M10×1 port  
 Seat type drill-point  
 Hex 17 mm  
 Bend 45°  
 Overall length 58 mm



right

Left pair HFMF385

 **Inverted seat**

## HFMF01

Thread M10×1 port  
 Seat type inverted  
 Hex 17 mm  
 Overall length 38 mm



Low profile LPMF01-M10X1\*  
 LP stainless LPMF01-M10X1SS\*  
 \*LP stem LPS-SI-SAE

## HFMF02

Thread M10×1 port  
 Seat type inverted  
 Flats 17 mm  
 Overall length 47 mm



Low profile LPMF02-M10X1\*  
 \*LP stem LPS-LI-SAE

## HFMF04

Thread M10×1 port  
 Seat type inverted  
 Flats 17 mm  
 Overall length 38 mm



Stainless HFMF04SS  
 Low profile LPMF04\*  
 \*LP stem LPS-SI-SAE

## HFMF06

Thread M10×1 port  
 Seat type inverted  
 Overall length 39 mm



/// E-clips, BQ12, are on page 19.  
 Retaining clips are on page 150.

# METRIC FEMALE CONTINUED

## *Inverted seat*

### HFMF11

Thread M10×1 port  
Seat type inverted  
Flats 19 mm  
Overall length 37 mm



Low profile  
\*LP stem

LPMF11\*  
LPS-SI-SAE

### HFMF14

Thread M10×1 port  
Seat type inverted  
Flats 14 mm  
Overall length 45 mm



Low profile  
\*LP stem

LPMF14\*  
LPS-SI-SAE

### HFMF15

Thread M10×1 port  
Seat type inverted  
Flats 17 mm  
Overall length 77 mm



Low profile

LPMF15

### HFMF16

Thread M10×1 port  
Seat type inverted  
Flats 19 mm  
Overall length 37 mm



Low profile  
\*LP stem

LPMF16\*  
LPS-SI-SAE

### HFMF20

Thread M10×1 port  
Seat type inverted  
Flats 17 mm  
Overall length 38 mm



Low profile  
\*LP stem

LPMF20\*  
LPS-SI-SAE

### HFMF26

Thread M10×1 port  
Seat type inverted  
Flats 17 mm  
Overall length 38 mm



### HFMF28

Thread M10×1 port  
Seat type inverted  
Flats 17 mm  
Overall length 37 mm



Low profile  
\*LP stem

LPMF28\*  
LPS-SI-SAE

### HFMF29

Thread M10×1 port  
Seat type inverted  
Hex 17 mm  
Overall length 54 mm



### HFMF31

Thread M10×1 port  
Seat type inverted  
Flats 17 mm  
Overall length 45 mm



### HFMF93

Thread M10×1 port  
Seat type inverted  
Hex 17 mm  
Overall length 47 mm





# METRIC FEMALE CONTINUED

## Inverted seat

### HFMF120

Thread M10×1 port  
 Seat type inverted  
 Flats 19mm  
 Bend 90°  
 Overall length 49mm



Left pair HFMF121

### HFMF121

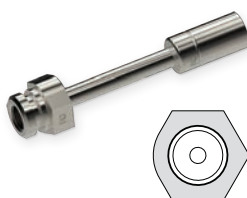
Thread M10×1 port  
 Seat type inverted  
 Flats 19mm  
 Bend 90°  
 Overall length 49mm



Right pair HFMF120

### HFMF308

Thread M10×1 port  
 Seat type inverted  
 Flats 19mm  
 Bend straight  
 Overall length 89mm



### HFMF366

Thread M10×1 port  
 Seat type inverted  
 Flats 16mm  
 Overall length 45mm



### HFMF393

Thread M10×1 port  
 Seat type inverted  
 Flats 17mm  
 Overall length 72mm



Low profile LPMF15

## CLIP MOUNT M10×1.25

### Inverted seat

### HFMF09

Thread M10×1.25 port  
 Seat type inverted  
 Hex 17mm  
 Overall length 37mm



Low profile LPMF09-M10X125\*  
 \*LP stem LPS-LI-SAE

### Drill-point seat

### HFMF21

Thread M10×1.25 port  
 Seat type drill-point  
 Hex 17mm  
 Overall length 47mm



///  
 E-clips, BQ12, are on page 19.  
 Retaining clips are on page 150.

# METRIC FEMALE CONTINUED

## CLIP MOUNT M10×1.5

 *Inverted seat*

### HFMF128

Thread M10×1.5 port  
Seat type inverted  
Flats 5/8"  
Overall length 43 mm



### HFMF132

Thread M10×1.5 port  
Seat type inverted  
Overall length 39.4 mm



### HFMF397

Thread M10×1.5 port  
Seat type inverted  
Overall length 45 mm



## CLIP MOUNT M12×1

 *Drill-point seat*

### HFMF47

Thread M12×1 port  
Seat type drill-point  
Flats 5/8"  
Overall length 46 mm



| Low profile LPMF47Z

### HFMF51

Thread M12×1 port  
Seat type drill-point  
Flats 16 mm  
Overall length 47 mm



### HFMF191

Thread M12×1 port  
Seat type drill-point  
Hex 19 mm  
Overall length 45 mm



 *Inverted seat*

### HFMF07

Thread M12×1 port  
Seat type inverted  
Overall length 45 mm



### HFMF10

Thread M12×1 port  
Seat type inverted  
Hex 21 mm  
Overall length 46 mm



| Low profile LPMF10\*  
\*LP stem LPS-LI-SAE

# METRIC FEMALE CONTINUED

 *Inverted seat*

## HFMF19

Thread M12 × 1 port  
 Seat type inverted  
 Hex 19 mm  
 Overall length 47 mm



## HFMF42

Thread M12 × 1 ports (2)  
 Seat type inverted  
 Overall length 57 mm



## HFMF43

Thread M12 × 1 port  
 Seat type inverted  
 Overall length 45 mm



## HFMF91

Thread M12 × 1 port  
 Seat type inverted  
 Hex 19 mm  
 Overall length 40 mm



## HFMF92

Thread M12 × 1 port  
 Seat type inverted  
 Flats 16 mm  
 Overall length 45 mm



# CLIP MOUNT M12 × 1.25

 *Drill-point seat*

## HFMF57

Thread M12 × 1.25 port  
 Seat type drill-point  
 Hex 19 mm  
 Overall length 46 mm



///  
 /// E-clips, BQ12, are on page 19.  
 Retaining clips are on page 150.



# METRIC FEMALE CONTINUED

## SPLINE MOUNT M10×1

 *Drill-point seat*

### HFMF22

Thread M10×1 port  
Seat type drill-point  
Overall length 39mm



### HFMF27

Thread M10×1 port  
Seat type drill-point  
Overall length 36mm



## BULKHEAD MOUNT M10×1

 *Drill-point seat*

### HFMFX04

Thread M10×1 port  
Seat type drill-point  
Mount thread 5/8-18 UNF  
Hex 19mm  
Overall length 45mm



### HFMFX04-M16

Thread M10×1 port  
Seat type drill-point  
Mount thread M16×1.5  
Hex 17mm  
Overall length 46mm



 *Inverted seat*

### HFMFX01

Thread M10×1 port  
Seat type inverted  
Mount thread 5/8-18 UNF  
Hex 19mm  
Overall length 45mm



## BULKHEAD MOUNT M10×1.25

 *Inverted seat*

### HFMFX02

Thread M10×1.25 port  
Seat type inverted  
Mount thread 5/8-18 UNF  
Hex 19mm  
Overall length 45mm



## BULKHEAD MOUNT M12×1

 *Drill-point seat*

### HFMFX10

Thread M12×1 port  
Seat type drill-point  
Mount thread M20×1.5  
Hex 22mm  
Overall length 49mm



/// Bulkhead nuts are on page 148.

# IMPERIAL MALE

## JIC MALE 3/8-24 UNF

### HFIM28

Thread	3/8-24 UNF stud
Dash size	-03 JIC
Stud length	12.2mm
Hex	14mm
Overall length	42mm



Low profile      LPIM28-6

## JIC MALE 7/16-20 UNF

### HFIM29

Thread	7/16-20 UNF stud
Dash size	-04 JIC
Stud length	14mm
Hex	14mm
Overall length	43mm



Low profile      LPIM29-7

## BOLT MOUNT 1/8-27 NPT

### HFIM30

Thread	1/8-27 NPT stud
Mount hole	6.6mm
Overall length	50mm



## BULKHEAD MOUNT 3/8-24 UNF

### HFIM02

Thread	3/8-24 UNF stud
Stud length	24mm
Hex	16mm
Overall length	52mm



Low profile      LPIM02-6  
LP stainless      LPIM02-6SS

### HFIM05

Thread	3/8-24 UNF stud
Stud length	12mm
Mount thread	1/2-20 UNF
Hex	16mm
Overall length	55mm



### HFIM12

Thread	3/8-24 UNF stud
Stud length	24mm
Hex	5/8"
Overall length	75mm



/// Bulkhead nuts are on page 148.

# IMPERIAL MALE CONTINUED

## BULKHEAD 7/16-20 UNF

### HFIM06

Thread	7/16-20 UNF stud
Stud length	28 mm
Hex	16 mm
Overall length	56 mm



## BULKHEAD 1/2-20 UNF

### HFIM07

Thread	1/2-20 UNF stud
Stud length	32 mm
Hex	3/4"
Overall length	60 mm



## CLIP MOUNT 7/16-20 UNF

### HFIM22

Thread	7/16-20 UNF stud
Stud length	13 mm
Hex	16 mm
Overall length	51 mm



/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.

## STANDARD 1/8-27 NPT

### HFIM19

Thread	1/8-27 NPT stud
Hex	14 mm
Overall length	40 mm



Stainless	HFIM19SS
Low profile	LPIM19

## STANDARD 1/8-28 BSPP

### HFIM32

Thread	1/8-28 BSPP stud
Stud length	6 mm
Hex	14 mm
Overall length	37 mm



## STANDARD 3/8-20 BSF

### HFIM15

Thread	3/8-20 BSF stud
Stud length	12.5 mm
Hex	5/8"
Overall length	40 mm



# IMPERIAL MALE CONTINUED

## STANDARD 3/8-24 UNF

### HFIM01

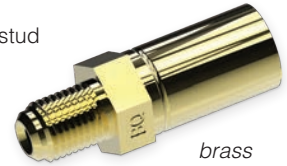
Thread 3/8-24 UNF stud  
 Stud length 13 mm  
 Hex 16 mm  
 Overall length 40 mm



Brass HFIM01B  
 Stainless HFIM01SS  
 Low profile LPIM01-6

### HFIM01B

Thread 3/8-24 UNF stud  
 Stud length 12.5 mm  
 Hex 14 mm  
 Overall length 40 mm



*brass*

### HFIM10

Thread 3/8-24 UNF stud  
 Stud length 12 mm  
 Hex 16 mm  
 Overall length 44 mm



### HFIM11

Thread 3/8-24 UNF stud  
 Stud length 13 mm  
 Hex 5/8"  
 Overall length 68 mm



### HFIM18

Thread 3/8-24 UNF stud  
 Stud length 12 mm  
 Hex 16 mm  
 Overall length 53 mm



### HFIM21

Thread 3/8-24 UNF stud  
 Stud length 12.5 mm  
 Hex 5/8"  
 Overall length 53 mm



### HFIM25

Thread 3/8-24 UNF stud  
 Stud length 12 mm  
 Hex 16 mm  
 Overall length 71 mm



### HFIM35

Thread 3/8-24 UNF stud  
 Stud length 11.8 mm  
 Hex 9/16"  
 Overall length 45 mm



### HFIM36

Thread 3/8-24 UNF stud  
 Stud length 11.8 mm  
 Hex 14 mm  
 Overall length 52 mm



## STANDARD 7/16-20 UNF

### HFIM03

Thread 7/16-20 UNF stud  
 Stud length 12 mm  
 Hex 16 mm  
 Overall length 40 mm



Stainless HFIM03SS  
 Low profile LPIM03-7

### HFIM09

Thread 7/16-20 UNF stud  
 Stud length 13.5 mm  
 Hex 16 mm  
 Overall length 69 mm



## IMPERIAL MALE *CONTINUED*

### HFIM16

Thread	7/16-20 UNF stud
Stud length	1/2"
Hex	17 mm
Overall length	61 mm



### HFIM27

Thread	7/16-20 UNF stud
Stud length	13 mm
Hex	5/8"
Overall length	63 mm



### HFIM40

Thread	7/16-20 UNF stud
Stud length	13.5 mm
Hex	16 mm
Overall length	42 mm



## STANDARD 7/16-24 UNS

### HFIM13

Thread	7/16-24 UNS stud
Stud length	12 mm
Hex	16 mm
Overall length	40 mm



| Low profile      LPIM13-7

### HFIM14

Thread	7/16-24 UNS stud
Stud length	12 mm
Hex	16 mm
Overall length	78 mm



## STANDARD 1/2-20 UNF

### HFIM08

Thread	1/2-20 UNF stud
Stud length	15 mm
Hex	17 mm
Overall length	43 mm



### HFIM24

Thread	1/2-20 UNF stud
Stud length	12 mm
Hex	5/8"
Overall length	44 mm



## STANDARD 11/16-16 UN

### HFIM04

Thread	11/16-16 UN stud
Stud length	20 mm
Hex	19 mm
Overall length	50 mm



# METRIC MALE

## BULKHEAD MOUNT M10×1

### HFMM02

Thread	M10×1 stud
Stud length	23 mm
Hex	15 mm
Overall length	51 mm



Low profile

LPMM02-M10X1

### HFMM18

Thread	M10×1 stud
Stud length	28 mm
Overall length	56 mm



### HFMM20

Thread	M10×1 stud
Stud length	24 mm
Hex	14 mm
Overall length	81 mm



## BULKHEAD MOUNT M10×1.25

### HFMM11

Thread	M10×1.25 stud
Stud length	15 mm
Hex	14 mm
Overall length	43 mm



### HFMM21

Thread	M10×1.25 stud
Stud length	24 mm
Hex	14 mm
Overall length	76 mm



## BULKHEAD MOUNT M12×1

### HFMM09

Thread	M12×1 stud
Stud length	28 mm
Hex	17 mm
Overall length	56 mm



### HFMM10

Thread	M12×1.5 stud
Stud length	33 mm
Hex	17 mm
Overall length	61 mm



/// Bulkhead nuts are on page 148.

# METRIC MALE CONTINUED

## CLIP MOUNT M10×1

Not all clip mount fittings include an e-clip. Refer to each fitting's image to see if a clip is included.

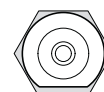
### HFMM12

Thread	M10×1 stud
Stud length	15 mm
Hex	17 mm
Overall length	50 mm



### HFMM303

Thread	M10×1 stud
Stud length	16 mm
Hex	17 mm
Overall length	52 mm



/// E-clips, BQ12, are on page 19.  
Retaining clips are on page 150.

## STANDARD M10×1

### HFMM01

Thread	M10×1 stud
Stud length	17 mm
Hex	16 mm
Overall length	45 mm



Low profile LPMM01-M10X1

### HFMM03

Thread	M10×1 stud
Stud length	14.3 mm
Hex	14 mm
Overall length	43 mm



Low profile LPMM03-M10X1  
LP zinc-nickel LPMM03-M10X1Z

### HFMM06

Thread	M10×1 stud
Stud length	13 mm
Hex	16 mm
Overall length	41 mm



Stainless HFMM06SS  
Low profile LPMM06-M10X1

### HFMM08

Thread	M10×1 stud
Stud length	17 mm
Hex	17 mm
Overall length	78 mm



### HFMM22

Thread	M10×1 stud
Stud length	33 mm
Hex	14 mm
Overall length	62 mm



LP zinc-nickel LPMM22Z

### HFMM23

Thread	M10×1 stud
Stud length	14 mm
Hex	14 mm
Overall length	43 mm





# METRIC MALE CONTINUED

---

## STANDARD M10×1.25

### HFMM04

Thread	M10×1.25 stud
Stud length	13 mm
Hex	16 mm
Overall length	41 mm



Low profile      LPMM04-M10X125

## STANDARD M10×1.5

### HFMM24

Thread	M10×1.5 stud
Stud length	13 mm
Hex	16 mm
Overall length	41 mm



---

## STANDARD M12×1

### HFMM05

Thread	M12×1 stud
Stud length	18 mm
Hex	17 mm
Overall length	47 mm



### HFMM13

Thread	M12×1 stud
Stud length	23 mm
Hex	16 mm
Overall length	77 mm



---

## STANDARD M12×1.25

### HFMM17

Thread	M12×1.25 stud
Stud length	17 mm
Hex	17 mm
Overall length	45 mm





# CENTER SUPPORT

## BRACKET MOUNT

### HFC04

Mount hole 6.5mm  
Width 39mm  
Overall length 30mm



### HFC05

Mount hole 8.5mm  
Width 20mm  
Overall length 30mm



| Low profile LPC05

### HFC18

Mount hole 8.7mm  
Width 24mm  
Overall length 48mm



### HFC19

Mount hole 8.7mm  
Width 24mm  
Overall length 48mm



### HFC316

Mount hole 10mm  
Width 22mm  
Overall length 36mm



### HFC319

Mount hole 9mm  
Width 45mm  
Overall length 50mm



| Right pair HFC320

*left*

### HFC320

Mount hole 9mm  
Width 45mm  
Overall length 50mm



| Left pair HFC319

*right*

### HFC321

Mount hole 9mm  
Width 55mm  
Overall length 50mm



| Right pair HFC324

*left*

### HFC322

Mount hole 8.5mm  
Width 40mm  
Overall length 42mm



| Right pair HFC325

*left*

### HFC323

Mount hole 8.5mm  
Width 45mm  
Overall length 48mm



| Right pair HFC326

*left*

# CENTER SUPPORT CONTINUED

## HFC324

Mount hole 9 mm  
Width 55 mm  
Overall length 50 mm



*right*

Left pair HFC321

## HFC325

Mount hole 8.5 mm  
Width 40 mm  
Overall length 42 mm



*right*

Left pair HFC322

## HFC326

Mount hole 8.5 mm  
Width 45 mm  
Overall length 48 mm



*right*

Left pair HFC323

## HFC338

Mount hole 9 mm  
Width 18 mm  
Overall length 53 mm



*left*

Right pair HFC339

## HFC339

Mount hole 9 mm  
Width 18 mm  
Overall length 53 mm



*right*

Left pair HFC338

## HFC341

Mount hole 9 mm  
Width 23 mm  
Overall length 29 mm



*left*

Right pair HFC339

## HFC342

Mount hole 9 mm  
Width 23 mm  
Overall length 29 mm



*right*

Left pair HFC338

## HFC343

Mount hole 8.5 mm  
Width 40 mm  
Overall length 37 mm



*left*

Right pair HFC344

## HFC344

Mount hole 8.5 mm  
Width 40 mm  
Overall length 37 mm



*right*

Left pair HFC343

## HFC345

Mount hole 10 mm  
Width 100 mm  
Overall length 44 mm



Right pair HFC346

## HFC346

Mount hole 10 mm  
Width 100 mm  
Overall length 44 mm



Left pair HFC345

## HFC347

Mount nut M8 × 1  
Width 20 mm  
Overall length 25 mm



# CENTER SUPPORT CONTINUED

## HFC348

Mount nut M8×1.25  
Width 22mm  
Overall length 66mm



## HFC350

Mount hole 9mm  
Width 67mm  
Overall length 25mm



## HFC351

Mount hole 9.5mm  
Width 90mm  
Overall length 24mm



## HFC352

Mount hole 9.5mm  
Width 90mm  
Overall length 24mm



Right pair HFC352 *left*

Left pair HFC351 *right*

## HFC353

Mount hole 8.5mm  
Width 24mm  
Overall length 73mm



## HFC354

Mount hole 8.5mm  
Width 24mm  
Overall length 73mm



Right pair HFC354

Left pair HFC353

## HFC355

Mount hole 10mm  
Width 20mm  
Overall length 40mm



## HFC356

Mount hole 10mm  
Width 20mm  
Overall length 40mm



Right pair HFC356

Left pair HFC355

## HFC357

Mount hole 10mm  
Width 88mm  
Overall length 50mm



## HFC358

Mount hole 10mm  
Width 88mm  
Overall length 50mm



Right pair HFC358

Left pair HFC357

## HFC359

Mount hole 9mm  
Width 25mm  
Overall length 60mm



## HFC360

Mount hole 9mm  
Width 20mm  
Overall length 25mm



Right pair HFC360 *left*

Left pair HFC359 *right*

# CENTER SUPPORT CONTINUED

## HFC361

Mount nut M6 × 1  
 Width 35 mm  
 Overall length 53 mm

Right pair HFC362



## HFC362

Mount nut M6 × 1  
 Width 35 mm  
 Overall length 53 mm

Left pair HFC361



## HFC365

Mount hole 9 mm  
 Width 35 mm  
 Overall length 42 mm

Right pair HFC366



## HFC366

Mount hole 9 mm  
 Width 35 mm  
 Overall length 42 mm

Left pair HFC365



## HFC367

Mount hole 10 mm  
 Width 40 mm  
 Overall length 42 mm

Right pair HFC368



## HFC368

Mount hole 10 mm  
 Width 40 mm  
 Overall length 42 mm

Left pair HFC367



## HFC369

Mount hole 7 mm  
 Width 30 mm  
 Overall length 58 mm

Right pair HFC370



## HFC370

Mount hole 7 mm  
 Width 30 mm  
 Overall length 58 mm

Left pair HFC369



## HFC371

Mount hole 10 mm  
 Width 33 mm  
 Overall length 55 mm

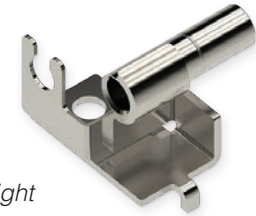
Right pair HFC372



## HFC372

Mount hole 10 mm  
 Width 33 mm  
 Overall length 55 mm

Left pair HFC371



## HFC373

Mount hole 8 mm  
 Width 45 mm  
 Overall length 75 mm

Right pair HFC374



## HFC374

Mount hole 8 mm  
 Width 45 mm  
 Overall length 75 mm

Left pair HFC373



# CENTER SUPPORT CONTINUED

## HFC379

Mount hole 10 mm  
Width 34 mm  
Overall length 50 mm

| Right pair HFC380



## HFC380

Mount hole 10 mm  
Width 34 mm  
Overall length 50 mm

| Left pair HFC379



## HFC381

Mount hole 10 mm  
Width 35 mm  
Overall length 69 mm

| Right pair HFC382



## HFC382

Mount hole 10 mm  
Width 35 mm  
Overall length 69 mm

| Left pair HFC381



# CLIP MOUNT

Not all clip mount fittings include an e-clip. Refer to each fitting's image to see if a clip is included.

## HFC01

Hex 17 mm  
Width 17 mm  
Overall length 33 mm

| Low profile LPC01



## HFC02

Hex 17 mm  
Width 17 mm  
Overall length 34 mm

| Low profile LPC02



## HFC06

Flats 17 mm  
Width 17 mm  
Overall length 34 mm

| Low profile LPC06



## HFC07

Flats 19 mm  
Width 19 mm  
Overall length 35 mm

| Low profile LPC07



## HFC09

Flats 17 mm  
Width 17 mm  
Overall length 34 mm

| Low profile LPC09



## HFC10

Flats 19 mm  
Width 19 mm  
Overall length 35 mm

| Low profile LPC10



# CENTER SUPPORT CONTINUED

## HFC12

Flats 17 mm  
 Width 17 mm  
 Overall length 35 mm



## HFC13

Flats 17 mm  
 Width 17 mm  
 Overall length 33 mm



## HFC15

Hex 19 mm  
 Width 19 mm  
 Overall length 37 mm



## HFC17

Flats 16 mm  
 Width 16 mm  
 Overall length 37 mm



| Low profile      LPC17

## HFC301A

Width 20 mm  
 Overall length 33 mm

| Low profile      LPC301  
 | LP zinc-nickel      LPC301Z



## HFC307

Flats 16.8 mm  
 Width 19 mm  
 Overall length 36 mm



## HFC331

Hex 17 mm  
 Width 33 mm  
 Overall length 34 mm

| Low profile      LPC331



/// E-clips, BQ12, are on page 19.  
 Retaining clips are on page 150.



# BRACKETS

## FITTING BRACKETS ATTACH WITH CLIP

### BQB01

Mount hole 9mm



### BQB04

Mount hole 8.4mm



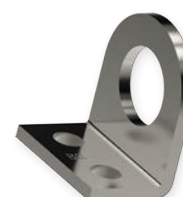
### BQB06

Mount hole 5mm



### BQB244

Mount hole 6.8mm



### BQB259

Mount hole 8.8mm  
Hex hole 16mm



### BQB315

Mount hole 10mm

Right pair BQB316



*left*

### BQB316

Mount hole 10mm

Left pair BQB315



*right*

### BQB317

Mount hole 9mm

Right pair BQB318



*left*

### BQB318

Mount hole 9mm

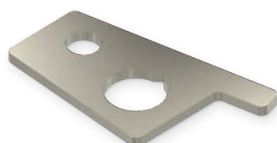
Left pair BQB317



*right*

### BQB319

Mount hole 9mm



/// Retaining clips are on page 150.

# BRACKETS CONTINUED

## FITTING BRACKETS ATTACH WITH SCREWS

### BQB05

Mount hole 9mm



### BQB07

Mount hole 12.4mm



### BQB10

Mount hole 9.6mm

Right pair

BQB11



### BQB11

Mount hole 9.6mm

Left pair

BQB10



### BQB14

Mount hole 8.6mm

Right pair

BQB15



### BQB15

Mount hole 8.6mm

Left pair

BQB14



### BQB20

Mount hole 9mm

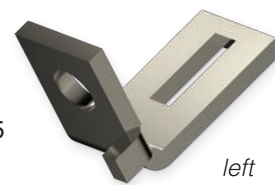


### BQB24

Mount hole 8.8mm

Right pair

BQB25

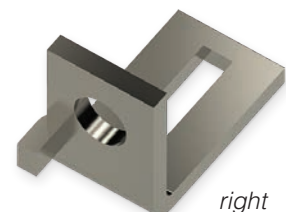


### BQB25

Mount hole 8.8mm

Left pair

BQB24



### BQB26

Mount hole 7mm



### BQB29

Mount hole 9.6mm



### BQB30

Mount hole 10.4mm





# BRACKETS *CONTINUED*

## BQB39

Mount hole 9 mm

Right pair

BQB40



*left*

## BQB40

Mount hole 9 mm

Left pair

BQB39



*right*

## BQB41

Mount hole 9 mm

Right pair

BQB42



*left*

## BQB42

Mount hole 9 mm

Left pair

BQB41



*right*

## BQB50

Mount hole 8 mm × 10 mm



## BQB64

Mount hole 8.3 mm

Right pair

BQB65



*left*

## BQB65

Mount hole 8.3 mm

Left pair

BQB64



*right*

## BQB75

Mount hole 8.5 mm



## BQB83

Mount hole 8.8 mm



## BQB86

Mount hole 8.5 mm

Right pair

BQB87



*left*

## BQB87

Mount hole 8.5 mm

Left pair

BQB86



*right*

## BQB88

Mount hole 7.7 mm



/// Find **Bracket Retaining Screws**, BQ71, on page 19.

# BRACKETS *CONTINUED*

## BQB89

Mount hole 10.4mm



## BQB90

Mount hole 9mm

Right pair

BQB91



left

## BQB91

Mount hole 9mm

Left pair

BQB90



right

## BQB105

Mount hole 9mm



## BQB111

Mount hole 8.8mm / 8.8mm x 12mm

Right pair

BQB112



left

## BQB112

Mount hole 8.8mm / 8.8mm x 12mm

Left pair

BQB111



right

## BQB115

Mount hole 9.6mm



## BQB118

Mount hole 9.4mm



## BQB119

Mount hole 9.2mm

Right pair

BQB120



left

## BQB120

Mount hole 9.2mm

Left pair

BQB119



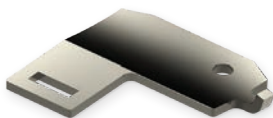
right

## BQB151

Mount hole 6.4mm

Left pair

BQB152



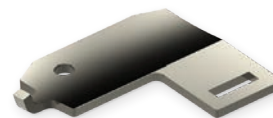
right

## BQB152

Mount hole 6.4mm

Right pair

BQB151



left

# BRACKETS CONTINUED

## BQB166

Mount hole 9mm



## BQB171

Mount hole 8.2mm



## BQB185

Mount hole 16.3mm

Left pair BQB186



right

## BQB186

Mount hole 16.3mm

Right pair BQB185



left

## BQB312

Mount hole 6.3mm

Right pair BQB313

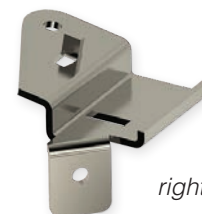


left

## BQB313

Mount hole 6.3mm

Left pair BQB312



right

## BQB336

Mount hole 7.5mm

Right pair BQB337



left

## BQB337

Mount hole 7.5mm

Left pair BQB336



right

## BQB338

Mount hole 10mm

Right pair BQB339



left

## BQB339

Mount hole 10mm

Left pair BQB338



right

## BQB415

Hole 5/16"

Wire bracket, designed for HFIF120.



/// Find **Bracket Retaining Screws**, BQ71, on page 19.

# BRACKETS CONTINUED

## CENTER BRACKETS

### BQB08

Mount hole 8.8mm

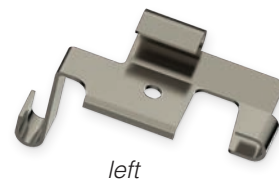
Left pair BQB09



### BQB09

Mount hole 8.8mm

Right pair BQB08



### BQB18

Mount hole 8.9mm

Right pair BQB19



### BQB19

Mount hole 8.9mm

Left pair BQB18



### BQB23

Mount hole 8.8mm



### BQB35

Mount nut M6 x 1



### BQB36

Mount hole 8.4mm

Right pair BQB37



### BQB37

Mount hole 8.4mm

Left pair BQB36



### BQB38

Mount thread 5/16-18 UNF



### BQB48

Mount hole 6.4mm



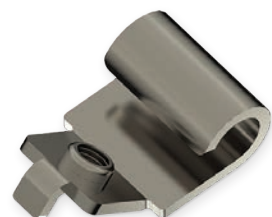
### BQB52

Mount hole 9.2mm



### BQB69

Mount nut M8 x 1.25



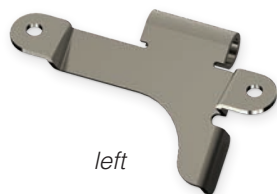
# BRACKETS *CONTINUED*

## BQB72

Mount hole 6.9mm

| Right pair

BQB73

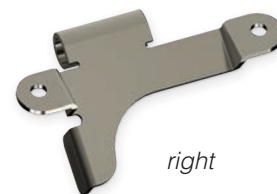


## BQB73

Mount hole 6.9mm

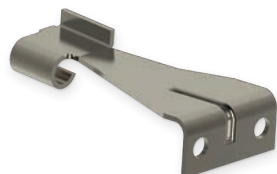
| Left pair

BQB72



## BQB85

Mount hole 9.2mm

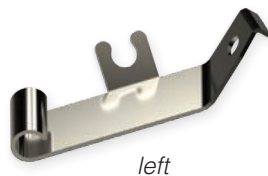


## BQB109

Mount hole 10mm × 7mm

| Right pair

BQB110



## BQB110

Mount hole 10mm × 7mm

| Left pair

BQB109



## BQB162

Mount hole 6.4mm / 5mm

| Left pair

BQB163



## BQB163

Mount hole 6.4mm / 5mm

| Right pair

BQB162



## BQB168

Mount nut M6×1



## BQB169

Mount hole 9mm



## BQB257

Mount hole 8.5mm



## BQB258

Mount hole 8.7mm



## BQB284

Mount hole 7mm / 6.2mm

| Left pair

BQB285



## BQB285

Mount hole 7mm / 6.2mm

| Right pair

BQB284



# BRACKETS CONTINUED

## CENTERS WITH GROMMET

The following center brackets include the BQ234 grommet pictured.

### BQB31

Mount hole 8.6mm



### BQB174

Mount hole 9mm

Left pair BQB195



*right*

### BQB195

Mount hole 9mm

Right pair BQB174



*left*

### BQB221

Mount hole 9mm



### BQB222

Mount hole 9mm

Left pair BQB223



*right*

### BQB223

Mount hole 9mm

Right pair BQB222



*left*

### BQB224

Mount hole 9mm

Left pair BQB225



*right*

### BQB225

Mount hole 9mm

Right pair BQB224



*left*

# LOW PROFILE

<b>Hose</b>		<b>Imperial Female</b>	
Braided Brake Hose	106	Standard Mount	117
<b>Tools</b>		Clip Mount	117
Braided Hose Shears	106	Bulkhead Mount	117
Skiving Tool	106	<b>Metric Female</b>	
<b>General Fittings</b>		Standard Mount	118
Crimp Shell	107	Bolt Mount	118
Female Swivel	107	Clip Mount	118
Male Swivel	108	<b>Imperial Male</b>	
Crimp Tee	110	JIC Male	120
Lifesaver	111	Bulkhead Mount	120
Universal	111	Standard Mount	120
Clutch	111	<b>Metric Male</b>	
Stems	112	Bulkhead Mount	121
<b>Block Banjo</b>		Standard Mount	121
8mm hole	113	<b>Center Support</b>	
10mm hole	113	Bracket Mount	122
<b>Round Banjo</b>		Clip Mount	122
10mm hole	114		
11mm hole	116		
7/16" hole	116		



# HOSE

## BRAIDED BRAKE HOSE

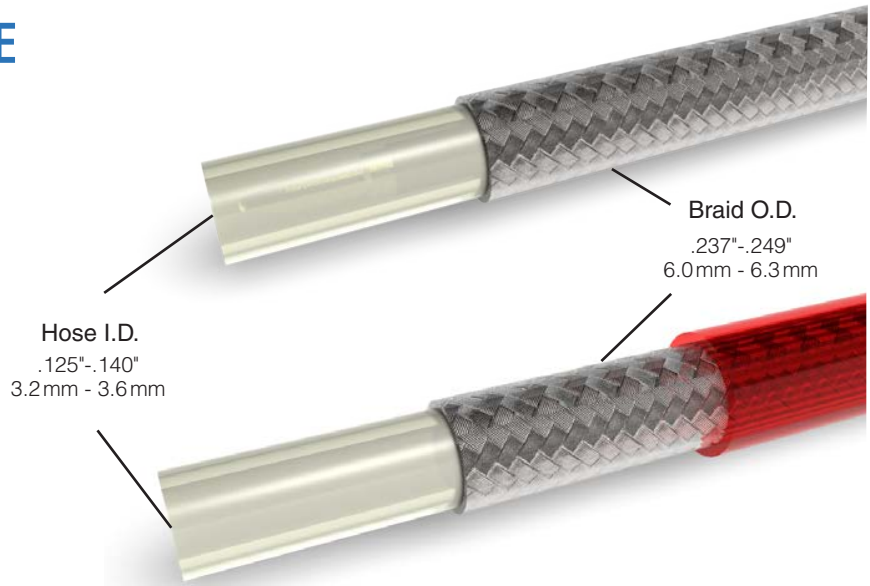
### Unjacketed Braided Hose

**BQ301** For off-road use only.

### Jacketed Braided Hose

**BQ302BK** Solid black jacket  
**BQ303** Clear jacket  
**BQ303RD** Red jacket  
**BQ303BL** Blue jacket  
**BQ303BK** Smoke jacket

Carriers	23
Wires per Carrier	4
Hose Wall	0.40" / 10mm
Operating Pressure	3,000 psi
Burst Pressure	12,000 psi
Bend Radius	2.0" / 50.8mm
Temperature Range	-65°F to 450°F / -54°C to 232°C



Compatible with DOT 3, 4, 5 (silicone-based), and 5.1 brake fluids, plus oil and most fluids.  
 Warning: No gases or acids should be used.

/// Braided grommets are listed within grommets on page 18.

# TOOLS

## BRAIDED HOSE SHEARS

**BQ2104**



## SKIVING TOOL

**BQ436**



Skives lengths for Standard and Low Profile crimps.  
 Uses a common No. 9 single-edge razor blade.

/// Skiving instructions are in the [hose assembly manual](#).

# GENERAL FITTINGS

## CRIMP SHELL

### LP121

LP stainless	LP121SS
LP zinc-nickel	LP121Z



/// Instructions for assembling low profile fittings can be found in the [hose assembly manual](#).

## FEMALE SWIVEL 3/8-24 UNF

### LP09W-6

Thread	3/8-24 UNF
Seat type	37° drill-point
Bend	straight
Overall length	42 mm

Standard	HF09W
LP chrome	LP09W-6C



wire-lock

### LP10W-6

Thread	3/8-24 UNF
Seat type	37° drill-point
Bend	45°
Tube size	1/4"
Overall length	57 mm

Standard	HF10
In chrome	LP10W-6C



wire-lock

### LP11-6

Thread	3/8-24 UNF
Flare	37° double
Bend	90°
Tube size	3/16"
Overall length	44 mm

Standard	HF11
Stainless	HF11SS
Alternative	LP11W-6



### LP11W-6

Thread	3/8-24 UNF
Seat type	37° drill-point
Bend	90°
Tube size	1/4"
Overall length	56 mm

Alternative	LP11-6
-------------	--------



wire-lock

## FEMALE SWIVEL 7/16-20 UNF

### LP12W-7

Thread	7/16-20 UNF
Seat type	37° drill-point
Bend	straight
Overall length	42 mm

Standard	HF12
Stainless	HF12SS
LP chrome	LP12W-7C



wire-lock

### LP13W-7

Thread	7/16-20 UNF
Seat type	37° drill-point
Bend	45°
Tube size	1/4"
Overall length	60 mm

Standard	HF13
Stainless	HF13SS
LP chrome	LP13W-7C



wire-lock

# GENERAL FITTINGS CONTINUED

## LP14W-7

Thread 7/16-20 UNF  
 Seat type 37° drill-point  
 Bend 90°  
 Tube size 1/4"  
 Overall length 56 mm



Standard	HF14
LP chrome	LP14W-7C

## FEMALE SWIVEL M10×1

### LP128W

Thread M10×1  
 Seat type 37° inverted  
 Bend straight  
 Overall length 38 mm



## MALE SWIVEL 3/8-24 UNF

### LP16-6

Thread 3/8-24 UNF  
 Flare 45° double  
 Bend straight  
 Tube size 3/16"  
 Overall length 55 mm



Standard	HF16
Brass	HF157BT
Stainless	HF16SS
LP chrome	LP16-6C
LP stainless	LP16-6SS

### LP17-6

Thread 3/8-24 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 3/16"  
 Overall length 49 mm



Standard	HF17
Stainless	HF17SS
LP chrome	LP17-6C
LP stainless	LP17-6SS

### LP33-6

Thread 3/8-24 UNF  
 Flare 45° double  
 Bend 45°  
 Tube size 3/16"  
 Overall length 70 mm



Standard	HF33
Stainless	HF33SS
LP chrome	LP33-6C
LP stainless	LP33-6SS

### LP45-6

Thread 3/8-24 UNF  
 Flare 45° double  
 Bend 35°  
 Tube size 3/16"  
 Overall length 91 mm



Stainless	HF45SS
LP chrome	LP45-6C

# GENERAL FITTINGS *CONTINUED*

## LP46-6

Thread 3/8-24 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 3/16"  
 Overall length 60 mm



LP chrome LP46-6C

## MALE SWIVEL 7/16-24 UNS

### LP06-7

Thread 7/16-24 UNS  
 Flare 45° double  
 Bend 90°  
 Tube size 1/4"  
 Overall length 64 mm



Standard HF06

### LP07-7

Thread 7/16-24 UNS  
 Flare 45° double  
 Bend 45°  
 Tube size 1/4"  
 Overall length 80 mm



### LP15-7

Thread 7/16-24 UNS  
 Flare 45° double  
 Bend straight  
 Tube size 1/4"  
 Overall length 58 mm



## MALE SWIVEL M10×1

### LP08Z

Thread M10×1  
 Flare DIN  
 Bend straight  
 Tube size 3/16"  
 Overall length 74 mm



*zinc-nickel*

### LP34-M10X1

Thread M10×1  
 Flare 45° double  
 Bend straight  
 Tube size 3/16"  
 Overall length 77 mm



Standard HF34  
 LP stainless LP34-M10X1SS

# GENERAL FITTINGS CONTINUED

## LP82-M10X1

Thread M10×1  
 Flare DIN  
 Bend straight  
 Tube size 3/16"  
 Overall length 69.5mm



Standard HF82  
 LP zinc-nickel LP82-M10X1Z

## LP125

Thread M10×1  
 Flare DIN  
 Bend 90°  
 Tube size 3/16"  
 Overall length 48.2mm



Standard HF158

## LP126

Thread M10×1  
 Flare DIN  
 Bend 45°  
 Tube size 3/16"  
 Overall length 66.3mm



## LP127

Thread M10×1  
 Flare DIN  
 Bend straight  
 Tube size 3/16"  
 Overall length 58.2mm



## MALE SWIVEL M10×1.25

### LP145-M10X125

Thread M10×1.25  
 Flare 45° double  
 Bend straight  
 Tube size 3/16"  
 Overall length 71.2mm

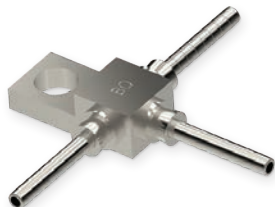


## CRIMP TEE

### LP124

Mount hole 8mm

LP stainless LP124SS



# GENERAL FITTINGS *CONTINUED*

## LIFESAVER

### LP01-3

Tube size 3/16"

- | Standard HF01
- | Stainless HF01SS



### LP01-4

Tube size 1/4"

- | Standard HF26



### LP01-5

Tube size 5/16"

- | Standard HF27



/// Instructions for using lifesavers can be found in the [hose assembly manual](#).

## UNIVERSAL

### LP02

Tube size 3/16"  
Overall length 105mm

- | Standard HF02



### LP03

Tube size 1/4"  
Overall length 105mm

- | Standard HF03



/// Instructions for using universal fittings can be found in the [hose assembly manual](#).

## CLUTCH

### LP156







- | Standard HF114

*O-Ring included.*






# GENERAL FITTINGS CONTINUED

## STEMS FEMALE SEAT

Part Number	Image	Seat type	Spec	Length	Common Fitments
LPS-SI-SAE		Inverted	SAE	Short	LPIF01, LPIF02, LPMF01, LPMF09
LPS-LI-SAE		Inverted	SAE	Long	LPMF02
LPS-SD-DIN		Drill-point	DIN	Short	LPMF08
LPS-SI-JIC		Inverted	JIC	Short	
LPS-SD-SAE		Drill-point	SAE	Short	
LPS-SD-JIC		Drill-point	JIC	Short	

## STEMS TUBE STYLE

Part Number	Image	Spec	Length	Tube Nuts
LPS-T-DIN		DIN	Tube	Use with BQ9150 or BQ9151
LPS-T-JIC		JIC	Tube	Use with BQ9150 or BQ9151
LPS-T-SAE		SAE	Tube	Use with BQ9150 or BQ9151

## TUBE NUTS FOR LOW PROFILE STEMS

Part Number	Image	Thread	Thread Depth	Hex
BQ9150		7/16-20 UNF	12.25 mm	9/16"
BQ9151		3/8-24 UNF	10.25 mm	7/16"

/// Learn how to assemble low profile fittings in the [hose assembly manual](#).



# BLOCK BANJO

## 10 MM HOLE

### LPB12-10M

Hole	10mm
Thickness	11.5mm
Width	20mm
Bend	10°
Overall length	52mm



Standard HFB12

### LPB14

Hole	10mm
Thickness	13mm
Width	20mm
Bend	20°
Overall length	50.5mm



Standard HFB14

### LPB493-10M

Hole	10mm
Thickness	1/2"
Width	18mm
Bend	90°
Overall length	72mm



left

Standard HFB493  
Right pair LPB494-10M

### LPB494-10M

Hole	10mm
Thickness	1/2"
Width	18mm
Bend	90°
Overall length	72mm



right

Standard HFB494  
Left pair LPB493-10M

# ROUND BANJO

## 8 MM HOLE

### LPB27-8M

Hole	8mm
Thickness	6.5mm
Width	14mm
Bend	straight
Overall length	49mm



bendable to 45°

Standard HFB27

# ROUND BANJO *CONTINUED*

## 10 MM HOLE 17 MM WIDTH

### LPB01-10M

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	straight
Overall length	48.1 mm



*bendable to 45°*

Standard	HFB01
LP chrome	LPB01-10MC
LP stainless	LPB01-10MSS
Anodized aluminum	
Black	LPB01-10MABK
Blue	LPB01-10MABL
Red	LPB01-10MARD



### LPB01-20-10M

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	20°
Overall length	48.7 mm



### LPB01-45-10M

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	45°
Overall length	48.7 mm



Anodized aluminum	
Black	LPB01-45-10MABK
Blue	LPB01-45-10MABL
Red	LPB01-45-10MARD



### LPB01-75-10M

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	75°
Overall length	30.7 mm



### LPB01-90-10M

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	90°
Overall length	22.1 mm



Standard	HFB32
Anodized aluminum	
Black	LPB01-90-10MABK
Blue	LPB01-90-10MABL
Red	LPB01-90-10MARD



### LPB455-10M

Hole	10 mm
Thickness	8 mm
Width	17 mm
Bend	straight
Overall length	75.4 mm



Standard	HFB194
----------	--------

# ROUND BANJO *CONTINUED*

## LPB653

Hole 10 mm  
 Thickness 8 mm  
 Width 17 mm  
 Bend 20°  
 Overall length 46.5 mm



## LPB654

Hole 10 mm  
 Thickness 8 mm  
 Width 17 mm  
 Bend 45°  
 Overall length 39.4 mm



## LPB655

Hole 10 mm  
 Thickness 8 mm  
 Width 17 mm  
 Bend 90°  
 Overall length 22.1 mm



# 10 MM HOLE 18 MM WIDTH

## LPB09-10M

Hole 10 mm  
 Thickness 10 mm  
 Width 18 mm  
 Bend straight  
 Overall length 48.7 mm



## LPB09-45-10M

Hole 10 mm  
 Thickness 10 mm  
 Width 18 mm  
 Bend 45°  
 Overall length 48.2 mm



- Standard HFB09
- Stainless HFB09SS
- LP chrome LPB09-10MC
- LP stainless LPB09-10MSS

## LPB09-75-10M

Hole 10 mm  
 Thickness 10 mm  
 Width 18 mm  
 Bend 75°  
 Overall length 31.4 mm



## LPB09-90-10M

Hole 10 mm  
 Thickness 10 mm  
 Width 18 mm  
 Bend 90°  
 Overall length 23 mm



## LPB171-10M

Hole 10 mm  
 Thickness 8 mm  
 Width 18 mm  
 Bend 40°  
 Overall length 59.8 mm



## LPB656

Hole 10 mm  
 Thickness 10 mm  
 Width 18 mm  
 Bend 20°  
 Overall length 46.6 mm



- LP chrome LPB171-10MC

# ROUND BANJO *CONTINUED*

## LPB657

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 45°  
 Overall length 39.4mm



## LPB658

Hole 10mm  
 Thickness 10mm  
 Width 18mm  
 Bend 90°  
 Overall length 23mm



## 11 MM HOLE

### LPB178-7

Hole 11mm  
 Thickness 8.5mm  
 Width 20mm  
 Bend 40°  
 Overall length 58.3mm



LP chrome      LPB178-7C

## 12 MM HOLE

### LPB47-12M

Hole 12mm  
 Thickness 10mm  
 Width 19mm  
 Bend straight  
 Overall length 50.2mm



Standard      HFB47  
 Stainless      HFB47SS

## 7/16" HOLE

### LPB448-7

Hole 7/16"  
 Thickness 10mm  
 Width 19mm  
 Bend straight  
 Overall length 48.7mm



Standard      HFB448  
 LP stainless      LPB448-7SS

### LPB448-45-7

Hole 7/16"  
 Thickness 10mm  
 Width 19mm  
 Bend 45°  
 Overall length 42mm



### LPB448-90-7

Hole 7/16"  
 Thickness 10mm  
 Width 19mm  
 Bend 90°  
 Overall length 45.2mm



Standard      HFB681

### LPB652

Hole 7/16"  
 Thickness 10mm  
 Width 19mm  
 Bend 35°  
 Overall length 50.7mm



Standard      HFB682

# IMPERIAL FEMALE

## STANDARD MOUNT

### LPIF126-6

Thread 3/8-24 UNF port  
 Seat type inverted  
 Flats 8 mm  
 Overall length 42.7 mm



LP chrome LPIF126-6C

## BULKHEAD MOUNT

### LPIFX01

Thread 7/16-24 UNS port  
 Mount thread 5/8-18 UNF  
 Overall length 49.2 mm

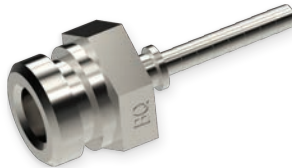


## CLIP MOUNT

Not all clip-mount fittings come with an e-clip. The fitting will be pictured with a clip if the clip is included.

### LPIF01

Thread 3/8-24 UNF port  
 Seat type inverted  
 Hex 17 mm  
 Overall length 41.5 mm



Standard HFIF01  
 Brass HFIF01B  
 Stainless HFIF01SS  
 Alternative LPIF01-6 \*  
 \* LP stem LPS-SI-SAE

### LPIF01-6

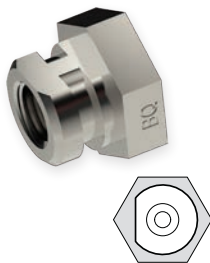
Thread 3/8-24 UNF port  
 Hex 17 mm



LP chrome LPIF01-6C  
 LP stainless LPIF01-6SS

### LPIF05

Thread 3/8-24 UNF port  
 Hex 19 mm



### LPIF10

Thread 3/8-24 UNF port  
 Flats 16 mm



### LPIF02-7

Thread 7/16-24 UNS port  
 Hex 17 mm



/// E-clips, BQ12, are on page 19.  
 Retaining clips are on page 150.

# METRIC FEMALE

## STANDARD MOUNT M10×1

### LPMF62Z

Thread M10×1 port  
Flats 17mm



## BOLT MOUNT M10×1

### LPMF48

Thread M10×1 port  
Seat type inverted  
Mount hole 8.8mm  
Overall length 57.2mm



### LPMF322-M10X1

Thread M10×1 port  
Seat type inverted  
Mount hole M8×1.25  
Overall length 46.2mm



| Standard HFMF48

Not all clip-mount fittings come with an e-clip. The fitting will be pictured with a clip if the clip is included.

## CLIP MOUNT M10×1

### LPMF01-M10X1

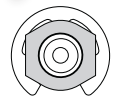
Thread M10×1 port  
Hex 17mm



| LP stainless LPMF01-M10X1SS

### LPMF02-M10X1

Thread M10×1 port  
Flats 17mm



### LPMF04

Thread M10×1 port  
Flats 17mm



### LPMF05-M10X1

Thread M10×1 port  
Hex 14mm



| LP zinc-nickel LPMF05-M10X1Z

### LPMF08-M10X1

Thread M10×1 port  
Hex 17mm



### LPMF11

Thread M10×1 port  
Flats 19mm



# METRIC FEMALE *CONTINUED*

## LPMF14

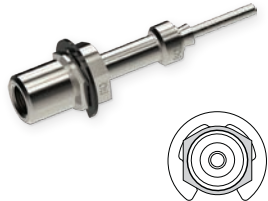
Thread M10×1 port  
Flats 17 mm



## LPMF15

Thread M10×1 port  
Seat type inverted  
Flats 17 mm  
Overall length 77 mm

Standard HFMF393



## LPMF16

Thread M10×1 port  
Flats 19 mm



## LPMF20

Thread M10×1 port  
Flats 17 mm



## LPMF24

Thread M10×1 port  
Flats 19 mm



## LPMF28

Thread M10×1 port  
Flats 17 mm



# CLIP MOUNT M10×1.25

## LPMF09-M10X125

Thread M10×1.25 port  
Hex 17 mm



# CLIP MOUNT M12×1

## LPMF10

Thread M12×1 port  
Hex 19 mm



## LPMF47Z

Thread M12×1 port  
Seat type drill-point  
Hex 5/8"  
Overall length 52.1 mm

Standard HFMF47



*zinc-nickel*



# IMPERIAL MALE

## JIC MALE 3/8-24 UNF

### LPIM28-6

Thread 3/8-24 UNF stud  
 Dash size -03 JIC  
 Hex 7/16"  
 Overall length 44.4 mm



Standard HFIM28

## JIC MALE 7/16-20 UNF

### LPIM29-7

Thread 7/16-20 UNF stud  
 Dash size -04 JIC  
 Hex 1/2"  
 Overall length 47.2 mm



Standard HFIM29

## BULKHEAD MOUNT 3/8-24 UNF

### LPIM02-6

Thread 3/8-24 UNF stud  
 Stud length 24 mm  
 Hex 16 mm  
 Overall length 56.2 mm



Standard HFIM02  
 LP stainless LPIM02-6SS

## STANDARD MOUNT 3/8-24 UNF

### LPIM01-6

Thread 3/8-24 UNF stud  
 Stud length 12.5 mm  
 Hex 16 mm  
 Overall length 43.7 mm

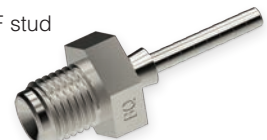


Standard HFIM01  
 Brass HFIM01B  
 Stainless HFIM01SS

## STANDARD 7/16-20 UNF

### LPIM03-7

Thread 7/16-20 UNF stud  
 Stud length 12 mm  
 Hex 16 mm  
 Overall length 44.2 mm



Standard HFIM03  
 Stainless HFIM03SS

## STANDARD 7/16-24 UNS

### LPIM13-7

Thread 7/16-24 UNS stud  
 Stud length 12 mm  
 Hex 5/8"  
 Overall length 44.2 mm



Standard HFIM13

## STANDARD NPT

### LPIM19

Thread 1/8-27 NPT stud  
 Hex 14 mm  
 Overall length 42.2 mm



Standard HFIM19  
 Stainless HFIM19SS

# METRIC MALE

## BULKHEAD MOUNT M10×1

### LPMM02-M10X1

Thread	M10×1 stud
Stud length	23 mm
Hex	15 mm
Overall length	55.2 mm



Standard HFMM02

## STANDARD MOUNT M10×1

### LPMM01-M10X1

Thread	M10×1 stud
Stud length	17 mm
Hex	16 mm
Overall length	49.2 mm



Standard HFMM01

### LPMM03-M10X1

Thread	M10×1 stud
Stud length	14 mm
Hex	14 mm
Overall length	46.2 mm



Standard HFMM03  
LP zinc-nickel LPMM03-M10X1Z

### LPMM06-M10X1

Thread	M10×1 stud
Stud length	13 mm
Hex	16 mm
Overall length	45.2 mm



Standard HFMM06  
Stainless HFMM06SS

### LPMM22Z

Thread	M10×1 stud
Stud length	33 mm
Hex	14 mm
Overall length	66.4 mm



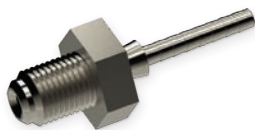
*zinc-nickel*

Standard HFMM22

## STANDARD MOUNT M10×1.25

### LPMM04-M10X125

Thread	M10×1.25 stud
Stud length	13 mm
Hex	16 mm
Overall length	45.2 mm



Standard HFMM04

# CENTER SUPPORT

## BRACKET MOUNT

### LPC05

Mount hole 8.5 mm  
 Width 20 mm  
 Overall length 29 mm

Standard HFC05



## CLIP MOUNT

Not all clip mount fittings include an e-clip. Refer to each fitting's image to see if a clip is included.

### LPC01

Width 17 mm  
 Hex 17 mm  
 Overall length 33 mm

Standard HFC01



### LPC06

Width 17 mm  
 Flats 17 mm  
 Overall length 34 mm

Standard HFC06



### LPC07

Width 19 mm  
 Flats 19 mm  
 Overall length 36 mm

Standard HFC07



### LPC09

Width 17 mm  
 Flats 17 mm  
 Overall length 34 mm

Standard HFC09



### LPC12

Width 17 mm  
 Flats 17 mm  
 Overall length 36 mm

Standard HFC12



### LPC17

Width 16 mm  
 Flats 16 mm  
 Overall length 37 mm

Standard HFC17



### LPC301

Width 20 mm  
 Overall length 33 mm

Standard HFC301A  
 LP zinc-nickel LPC301Z



### LPC331

Width 20 mm  
 Flats 17 mm  
 Overall length 35 mm

Standard HFC331



/// E-clips, BQ12, are on page 19.

# ***POWER STEERING***

## **Hose**

High-pressure Hose	124
Low-pressure Hose	124

## **Accessories**

Restrictor Tube	125
Bump Tube Adapters	125
Braze-on Fittings	125

## **Fittings**

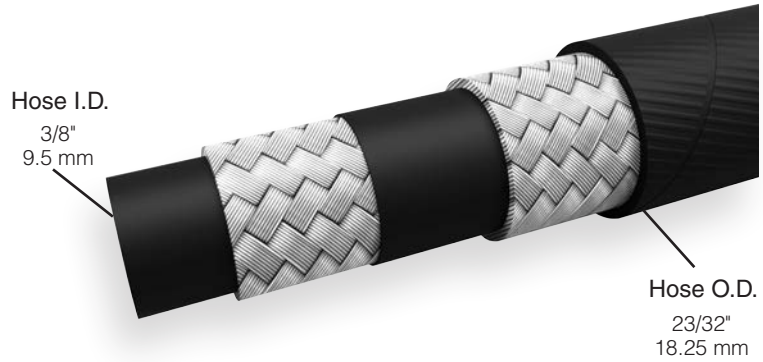
Banjo	126
Female Swivel	126
Male Swivel	127
Metric Female	128
Metric Male	128
Center Support	129
Universal	129
Braze-on Lifesaver	129
Compression	129

# HOSE

## HIGH PRESSURE

High Pressure Power Steering Hose, Rubber  
PS330

Carriers	24
Wires per Carrier	4
Hose Wall	0.067" / 1.7mm
Operating Pressure	1,650 psi
Burst Pressure	7,800 psi
Bend Radius	3.2" / 81.3mm
Temperature Range	-40°F to 300°F / -40°C to 149°C

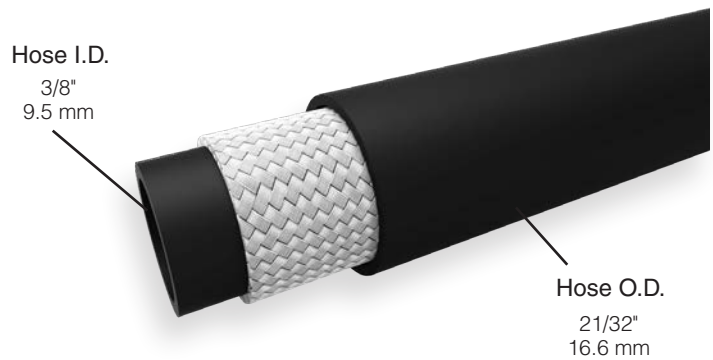


*Compatible with petroleum based power steering and transmission oils.*

## LOW PRESSURE

Low Pressure Power Steering Hose, Rubber  
PS331

Carriers	24
Wires per Carrier	2
Hose Wall	0.06" / 1.5mm
Operating Pressure	300 psi
Burst Pressure	1,200 psi
Bend Radius	3.0" / 76.2mm
Temperature Range	-40°F to 300°F / -40°C to 149°C



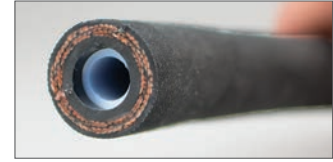
*Compatible with petroleum based oils.*

# ACCESSORIES

## RESTRICTOR TUBE

### BQ801

The restrictor tube will reduce noise by floating in the hose and restricting flow. If using, install before crimping the end fitting.



## ADAPTERS BUMP TUBE

These adapters are for power steering and fuel systems.

### Male to O-ring Pilot

O-ring pilot includes a high-temperature Viton O-ring.

Stud Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
1/2-20 UNF (-05 JIC)	1/2-20 UNF	9/16"	37.4mm	5MBT-5MJ
9/16-18 UNF (-06 JIC)	11/16-18 UNS	3/4"	41.9mm	7MBT-6MJ
9/16-18 UNF (-06 JIC)	M14×1.5	5/8"	38.8mm	14MMBT-6MJ
9/16-18 UNF (-06 JIC)	M16×1.5	17mm	38.9mm	16MMBT-6MJ
9/16-18 UNF (-06 JIC)	M18×1.5	3/4"	39.4mm	18MMBT-6MJ



### Male to O-ring Boss

O-ring boss includes a PTFE crush ring.

Stud Thread	O-ring Boss Thread	Hex	Overall Length	Part Number
9/16-18 UNF (-06 JIC)	M16×1.5 (Ford type III)	18mm	32.1mm	16MMORB-6MJ



### Female to O-ring Pilot

O-ring pilot includes a high-temperature Viton O-ring.

Port Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
5/8-18 UNF	M16×1.5	3/4"	30.8mm	16MMBT-6FI

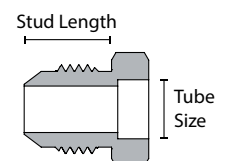


/// Bump Tube Adapter Assortment Kit, BQ7003, is on page 157.

## ADAPTERS BRAZE-ON FITTINGS

### -06 JIC

Thread	Type	Tube Size	Stud Length	Hex	Material	Part Number
9/16-18 UNF	-06 JIC	3/8"	14.1mm	5/8"	Aluminum	BQ170
9/16-18 UNF	-06 JIC	3/8"	14.1mm	5/8"	Steel	BQ226
9/16-18 UNF	-06 JIC	1/2"	14.1mm	11/16"	Steel	BQ228
9/16-18 UNF	-06 JIC	10mm	14.1mm	5/8"	Steel	BQ227



/// For a full list of BrakeQuip's Braze-On Fittings, see page 146.

# FITTINGS

## BANJO

### PSHFB130

Hole size 14 mm  
 Thickness 17.3 mm  
 Width 30 mm  
 Overall length 56.3 mm



### PSHFB132

Hole size 14 mm  
 Thickness 17.3 mm  
 Width 30 mm  
 Bend 45°  
 Tube size 12 mm  
 Overall length 92.9 mm



### PSHFB133

Hole size 14 mm  
 Thickness 14 mm  
 Width 24 mm  
 Tube size 10 mm  
 Overall length 86.8 mm



### PSHFB134

Hole size 14 mm  
 Thickness 14 mm  
 Width 24 mm  
 Bend 20°  
 Tube size 10 mm  
 Overall length 106 mm



### PSHFB135

Hole size 14 mm  
 Thickness 14 mm  
 Width 24 mm  
 Tube size 10 mm  
 Overall length 104 mm



## FEMALE SWIVEL 5/8-18 UNF

### PSHF116

Thread 5/8-18 UNF  
 Flare 45° double  
 Angle straight  
 Hex 7/8"  
 Overall length 57 mm



### PSHF117

Thread 5/8-18 UNF  
 Flare 45° double  
 Bend 45°  
 Hex 13/16"  
 Tube size 3/8"  
 Overall length 95 mm



### PSHF115

Thread 5/8-18 UNF  
 Flare 45° double  
 Bend 90°  
 Hex 13/16"  
 Tube size 3/8"  
 Overall length 80 mm





# FITTINGS CONTINUED

## FEMALE SWIVEL 9/16-18 UNF

### PSHF106

Thread	9/16-18 UNF
Seat type	37° drill-point
Angle	straight
Overall length	57 mm



Use with BQ226 or BQ227 braze-on fittings or with bump tube adapters.

### PSHF142

Thread	9/16-18 UNF
Flare	37° single
Bend	45°
Hex	11/16"
Tube size	3/8"
Overall length	94 mm



### PSHF114

Thread	9/16-18 UNF
Flare	37° double
Bend	90°
Hex	11/16"
Tube size	3/8"
Overall length	80 mm



## MALE SWIVEL 7/16-24 UNS

### PSHF118

Thread	7/16-24 UNS
Flare	45° double
Bend	straight
Tube size	1/4"
Overall length	70 mm



### PSHF121

Thread	7/16-24 UNS
Flare	45° double
Bend	45°
Tube size	3/8"
Overall length	77 mm



### PSHF124

Thread	7/16-24 UNS
Flare	45° double
Bend	90°
Tube size	3/8"
Overall length	66 mm



## MALE SWIVEL 1/2-20 UNF

### PSHF119

Thread	1/2-20 UNF
Flare	45° double
Bend	straight
Tube size	5/16"
Overall length	70 mm



### PSHF122

Thread	1/2-20 UNF
Flare	45° double
Bend	45°
Tube size	1/4"
Overall length	81 mm



# FITTINGS CONTINUED

## PSHF125

Thread 1/2-20 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 3/8"  
 Overall length 75 mm



## MALE SWIVEL 5/8-18 UNF

### PSHF120

Thread 5/8-18 UNF  
 Flare 45° double  
 Bend straight  
 Tube size 3/8"  
 Overall length 73 mm



### PSHF123

Thread 5/8-18 UNF  
 Flare 45° double  
 Bend 45°  
 Tube size 3/8"  
 Overall length 86 mm



### PSHF126

Thread 5/8-18 UNF  
 Flare 45° double  
 Bend 90°  
 Tube size 1/4"  
 Overall length 80 mm



## MALE SWIVEL M16×1.5

### PSHF146

Thread M16×1.5  
 Flare 45° double  
 Bend 90°  
 Tube size 3/8"  
 Overall length 68.6 mm



## METRIC FEMALE

### PSHF108

Thread M14×1.5  
 Seat type inverted  
 Angle straight  
 Hex 19 mm  
 Overall length 47 mm



## METRIC MALE

### PSHFMM131

Thread M16×1.5  
 Stud length 31.5 mm  
 Hex 19 mm  
 Overall length 70 mm



# FITTINGS *CONTINUED*

## CENTER SUPPORT

### PSHF100

Overall length 27 mm



## UNIVERSAL

### PSHF133

Tube size 3/8"  
Overall length 500 mm



## BRAZE-ON LIFESAVER

### PSHF101

Tube size 3/8"  
Hex 5/8"  
Overall length 44 mm



### PSHF102

Tube size 10 mm  
Hex 5/8"  
Overall length 44 mm



### PSHF105

Tube size 1/4"  
Hex 5/8"  
Overall length 47 mm



### PSHF107

Tube size 5/16"  
Hex 5/8"  
Overall length 44 mm



### PSHF109

Tube size 1/4"  
Hex 5/8"  
Overall length 35 mm



### PSHF111

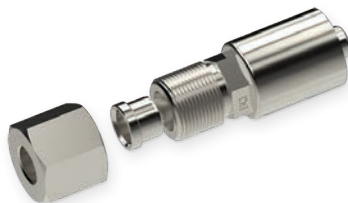
Tube size 12 mm  
Hex 16 mm  
Overall length 44 mm



## COMPRESSION

### PSHF103

Tube size 3/8"  
Hex 5/8"  
Overall length 65 mm



### PSHF104

Tube size 10 mm  
Hex 16 mm  
Overall length 65 mm



### PSHF112

Tube size 5/16"  
Hex 5/8"  
Overall length 50 mm



# FUEL

## Fuel Connectors

Quick Connects	131
Quick Connect Tubes	131
FuelFlex Connectors	131
FuelFlex Reducers	131
FuelFlex to Rubber Hose	131
Thread Connectors	132

## Fuel Fittings

FuelFlex Unions	132
Bump Tube Nuts	132
Male-Female Adapters	132
Compression Fittings	132

## Fuel Accessories

FuelFlex Tubing	133
Fuel Pressure Repair Kit	133
360° Tube Clamps	133
Tube Cutter	133
Spring Mandrels	133
Tube Support Clamps	133
360° Tube Clamp Pliers	133
Heat Shield	133

## Fuel Line Kit

Professional Fuel Line Kit	134
----------------------------	-----

# FUEL CONNECTORS

## QUICK CONNECTS

*Thumb-release convenience with no special tools required.*

### Straight

Female	Male	Part Number
1/4"	5/16"	FL08-4-5
5/16"	5/16"	FL08-5-5
5/16"	3/8"	FL08-5-6
3/8"	5/16"	FL08-6-5
3/8"	3/8"	FL08-6-6

### 90°

Female	Male	Part Number
5/16"	5/16"	FL09-5-5
5/16"	3/8"	FL09-5-6
3/8"	5/16"	FL09-6-5
3/8"	3/8"	FL09-6-6



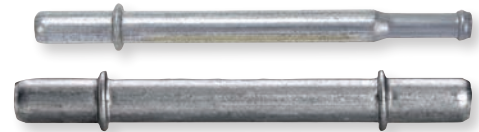
## QUICK CONNECT TUBES

### Description

- 1/4" quick connect to 8mm FuelFlex - straight
- 5/16" quick connect to 8mm FuelFlex - straight
- 3/8" quick connect to 3/8" quick connect - straight
- 3/8" quick connect to 10mm FuelFlex - straight

### Part Number

- FL05-4
- FL03-5
- FL04-6
- FL03-6



## FUELFLEX CONNECTORS

### Description

- 8mm FuelFlex to 8mm FuelFlex - 90°
- 10mm FuelFlex to 10mm FuelFlex - 90°

### Part Number

- FL20-5
- FL20-6



## FUELFLEX REDUCERS

### Description

- 8mm FuelFlex to 1/4" FuelFlex
- 10mm FuelFlex to 8mm FuelFlex

### Part Number

- FL06-5-4
- FL06-6-5



## FUELFLEX TO RUBBER HOSE

### Description

- 8mm FuelFlex to 5/16" rubber hose
- 10mm FuelFlex to 3/8" rubber hose

### Part Number

- FL02-5
- FL02-6

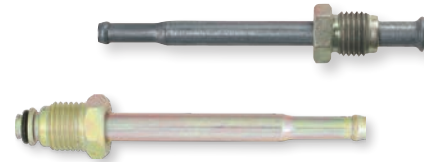


# FUEL CONNECTORS CONTINUED

## THREAD CONNECTORS

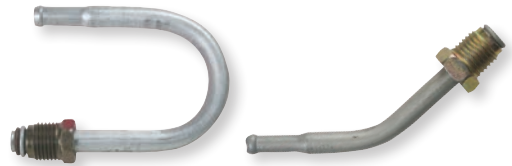
### Straight

Tube End	End Form	Thread	Length	Part Number
5/16" rubber hose	bump	M14×1.5	230 mm	FL07-5
3/8" rubber hose	bump	M16×1.5	230 mm	FL07-6
8mm FuelFlex	double flare	M14×1.5	90 mm	FL12-14MM
8mm FuelFlex	bump	M14×1.5	155 mm	FL13-5
8mm FuelFlex	bump	M14×1.5	100 mm	FL14-5
10mm FuelFlex	bump	M16×1.5	155 mm	FL13-6
10mm FuelFlex	bump	M16×1.5	100 mm	FL14-6



### Bent

Tube End	End Form	Thread	Bend	Part Number
8mm FuelFlex	double flare	M14×1.5	30°	FL11-14MM
10mm FuelFlex	bump	M16×1.5	180°	FL15



# FUEL FITTINGS

## FUELFLEX UNIONS

Size	Part Number
8mm	FL01-5
10mm	FL01-6



## MALE-FEMALE ADAPTERS

Male	Female	Seat	Part Number
8mm FuelFlex	M14×1.5	bump	FL10-5S <i>steel</i>
10mm FuelFlex	M16×1.5	bump	FL10-6S <i>steel</i>
8mm FuelFlex	M14×1.5	inverted	FL10-14MM <i>brass</i>



## BUMP TUBE NUTS

Size	Part Number
M16×1.5 – 3/8"	BQ9148
M14×1.5 – 5/16"	BQ9149



## COMPRESSION FITTINGS

Description	Part Number
8mm FuelFlex — 5/16" metal tube	FL36 <i>brass</i>
8mm FuelFlex — 8mm FuelFlex	FL37 <i>brass</i>
10mm FuelFlex — 3/8" metal tube	FL38 <i>brass</i>
10mm FuelFlex — 10mm FuelFlex	FL39 <i>brass</i>



# FUEL ACCESSORIES

## FUELFLEX TUBING

Size	Coil Length	Part Number
8mm (5/16")	25ft	T8-FF
10mm (3/8")	25ft	T10-FF



## SPRING MANDRELS

Size	Part Number
8mm (5/16")	BQ318
10mm (3/8")	BQ319



## FUEL PRESSURE REPAIR KIT

Size	Part Number
8mm (5/16")	FL21
10mm (3/8")	FL22



## TUBE SUPPORT CLAMPS

Size	Part Number
8mm (5/16")	FL35
10mm (3/8")	FL34



## 360° TUBE CLAMPS

Size	Part Number
8mm (5/16")	FL25
10mm (3/8")	FL26



## 360° TUBE CLAMP PLIERS BQ412



## TUBE CUTTER

**BQ-01**



## HEAT SHIELD

**BQ313-SV**

Available in 5 ft sections.

Maximum OD is 1/2".





# FUEL LINE KIT

## PROFESSIONAL FUEL LINE KIT

### BQFL4500



The Professional Fuel Line Kit comes with dozens of components and fittings, from quick connects and adapters to pliers, clamps, and heat shields.

With over 180 pieces and 50 feet of FuelFlex tubing, this kit is a complete fuel line solution for almost any vehicle.



Part Number	Qty	Part Number	Qty	Part Number	Qty
<b>TUBING</b>					
T8-FF	25 ft	<b>FUELFLEX REDUCERS</b>		<b>COMPRESSION FITTINGS</b>	
T10-FF	25 ft	FL06-6-5	2	FL36	2
<b>QUICK CONNECTS</b>					
FL08-4-5	2	<b>FUELFLEX ADAPTERS</b>		FL37	2
FL08-5-5	2	FL02-5	2	FL38	2
FL08-5-6	2	FL02-6	2	FL39	2
FL08-6-5	2	<b>THEADED CONNECTORS</b>			
FL08-6-6	2	FL07-5	2	<b>BUMP TUBE NUTS</b>	
FL09-5-5	2	FL07-6	2	BQ9148	4
FL09-5-6	2	FL11-14MM	2	BQ9149	4
FL09-6-5	2	FL12-14MM	2	<b>SCREWS AND CLAMPS</b>	
FL09-6-6	2	FL13-5	2	BQ811	20
<b>QUICK CONNECTOR TUBES</b>					
FL03-5	2	FL13-6	2	FL25	20
FL03-6	2	FL14-5	2	FL26	20
FL04-6	2	FL14-6	2	FL34	20
FL05-4	2	FL15	1	FL35	20
<b>FUELFLEX CONNECTORS</b>					
FL20-5	2	<b>FUELFLEX UNIONS</b>			
FL20-6	2	FL01-5	2	<b>TOOLS</b>	
		FL01-6	2	BQ318	1
		<b>MALE-FEMALE ADAPTERS</b>			
		FL10-5S	1	BQ319	1
		FL10-6S	1	BQ-01	1
		FL10-14MM	1	BQ412	1
				<b>TUBE PROTECTION</b>	
				BQ313-SV	5 ft

# TUBING & HARDWARE

<b>Tubing</b>		<b>Hardware</b>	
EziBend 2	136	Tube Nuts	144
316L Stainless Steel	137	Elbows	146
<b>Hose &amp; Protectors</b>		Braze-on Fittings	146
Hose	138	Pre-Fluxed Brazing Rods	146
Tube Protectors	138	Female Unions	147
<b>Tubing Tools</b>		Male Unions	148
Straighteners	139	Bulkhead Nuts	148
Benders	140	Tees	149
Flaring Tools	141	Clips & Brackets	150
Cutters	142	Thread Adapters	151
Line Stoppers	142	Bump Tube Adapters	153
Tool Kits	143	Transmission Line Adapters	153
		Copper Washers	154
		Banjo Bolts	154
		Banjo Adapters	155
		Braze-on Banjo Heads	155
		Bleed Screws	156
		Brake Hose Caps & Plugs	156
		Assortment Kits	157

# COPPER-NICKEL



For the ultimate combination of corrosion resistance and ease of use, choose **EziBend 2** cunifer tubing. EziBend meets SAE J1650, copper-nickel material standards, and is specially alloyed for automotive use.

## TOUGH ON CORROSION

Unlike other similarly-priced tubing that attempts to protect rust-prone steel with plating or coating, EziBend tubing is rust and corrosion proof. It will remain protected after tube formation.

## EASY ON TOOLS

EziBend's composition is inherently ductile, making it strong yet easy to work with. The same properties that make EziBend simple to shape allow it to achieve a superior sealing surface against fittings.

## EZIBEND 2

Outer Diameter	Coil Length	Part Number
3/16"	25 ft	T187-25SE
3/16"	100 ft	T187-100SE
1/4"	25 ft	T250-25SE
1/4"	100 ft	T250-100SE
5/16"	25 ft	T312-25SE
3/8"	25 ft	T375-25SE



EziBend 2, 3/16"  
T187-25SE

*Call about branding.*

# STAINLESS STEEL

Renowned for its ease of use and stunning appearance, 316L stainless is the top choice of premiere automotive builders.

## MARINE-GRADE 316L

Marine-grade stainless steel tubing has a high-level of corrosion protection. 316L contains molybdenum, a corrosion resistor that is not found in 304 stainless.

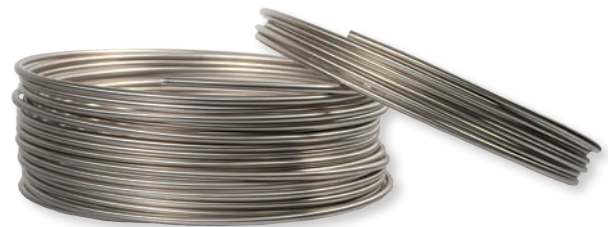
## IDEAL FOR BUILDERS

Our .028" wall thickness and annealing process make it the builder's choice for stainless installations. Straightening, cutting, bending, and flaring is easier than with non-annealed stainless.



## 316L STAINLESS STEEL

Outer Diameter	Coil Length	Part Number
3/16"	25 ft	T187-25SS
3/16"	100 ft	T187-100SS
1/4"	25 ft	T250-25SS
1/4"	100 ft	T250-100SS
5/16"	25 ft	T312-25SS
5/16"	25 ft	T312-25SS
3/8"	25 ft	T375-25SS



316L Stainless Steel, 5/16"  
T312-25SS

## TOTAL CUSTOMIZATION

BrakeQuip can customize OD, wall thickness, or coil length for large volume special orders.

For more information, contact [sales@brakequip.com](mailto:sales@brakequip.com).

# HOSE & PROTECTORS

---

## HOSE

### Remote Reservoir Hose

Available in 10ft sections.



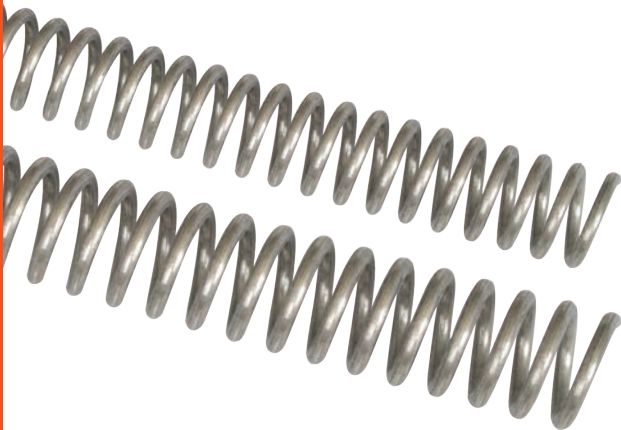
Inner Diameter	Outer Diameter	Part Number
1/4"	7/16"	BQ320
5/16"	1/2"	BQ321
3/8"	9/16"	BQ322

1/4" Remote Reservoir Hose  
BQ320

---

## TUBE PROTECTORS

### Spring Guard



Inner Diameter	Length	Material	Part Number
3/16"	3ft	Stainless steel	BQ231
1/4"	3ft	Stainless steel	BQ232

Spring Guards  
BQ231, BQ232

# TUBING TOOLS

## STRAIGHTENERS

### Professional Tube Straightener

#### BQ1028

Complete a professional tube installation by forming coiled tube into straight sections of any length. Adjust the wheels to the tube size and pull the tube through the tool to straighten.

- For 3/16" – 1/2" light-walled, annealed tube
- Non-marking delrin wheels
- 5-point precision and fine-threaded adjustment
- Vice mount or bolt straight to the workbench



Replacement wheel  
BQ1028-75

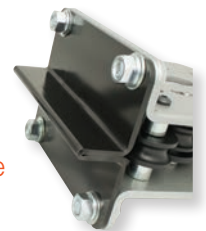


### Brake Tube Straightener

#### BQ1030

Designed for the automotive DIY-er. Straightens coils with common brake line sizes.

- Straighten 3/16" – 1/4" annealed tubing
- U-shaped rollers straighten both tubing sizes
- Hard polymer rollers leave a smooth finish on tubing
- Smooth ball bearing action
- Bench-mount ready
- Optional vise-mount base (BQ1030-MB)



Vise-mount base  
BQ1030-MB

### Tube-Straightening Pliers

#### BQ405

Remove imperfections or fix mistakes with these pliers.

- Straightens incorrect bends in 3/16" and 1/4" tube
- Makes tight-radius bends, up to 90°, for both 3/16" and 1/4" tube
- The flat side of the mandrel provides a guide surface for cutting



# TUBING TOOLS *CONTINUED*

## BENDERS

### Brake Tube Pliers

#### BQ402

For use on 3/16" and 1/4" brake tube, these pliers are perfect for working in constrained areas under a vehicle.

- Align the tube and nut with the port during installation
- Put a tight 90° bend behind a tube nut (such as a master cylinder drop)



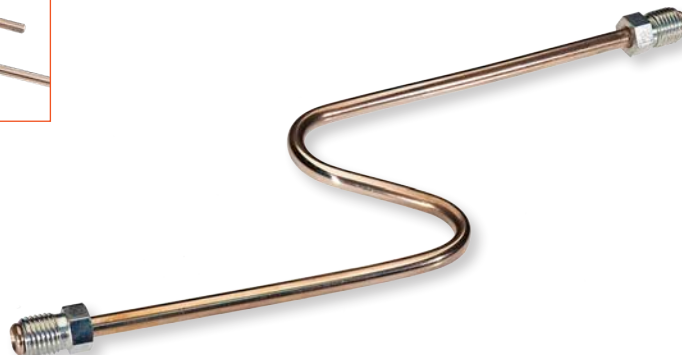
*One side of the tool end is flat to facilitate cutting.*

### Professional Tube Bender

#### BQ406

For use on 3/16" and 1/4" brake tube, this bender is easy to use and yields professional results. Bend on the vehicle or mount the tool in a vise for precision mass production.

- Bends in a tight radius, up to 180°
- Low-friction rollers make for easy precision work
- Smooth roller channels provide a clean, scratch-free finish
- Handles separate for quick and easy tube removal



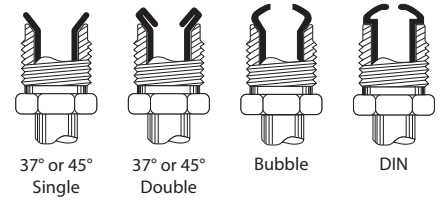


# TUBING TOOLS CONTINUED

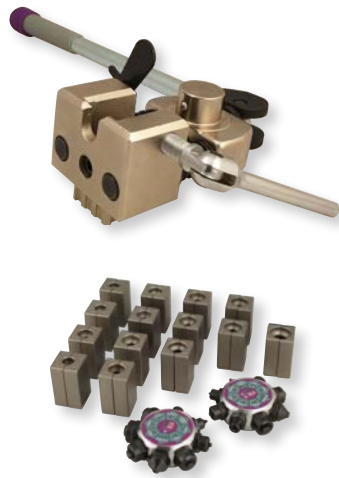
## FLARING TOOLS

These flaring tools are designed to be used in a bench vise or with our table flange mount (BQ350-1).

- Smooth channel dies minimize tube scarring and deformation for a show-quality finish.
- The cam-and-lever design, combined with ball detent turrets, provide fast and easy single, double, bubble, and DIN flares.
- Replacement components are available.



Mounting Flange  
BQ350-1

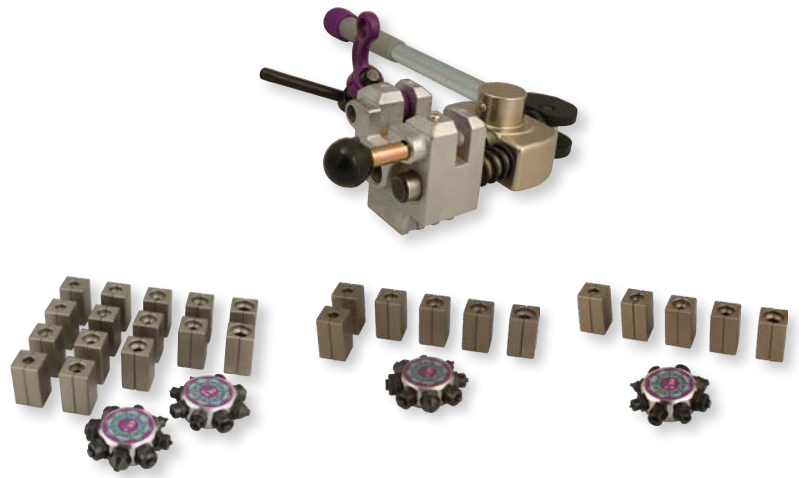


### "A" Series

45° flares	3/16", 1/4", 5/16", 3/8" 4.75mm, 6mm, 8mm, 10mm
37° flares	3/16", 1/4", 5/16", 3/8", 1/2"
DIN flares	3/16", 1/4"
Part Number	<b>BQ350A</b>

*"A" Series Features:*

- Die-cast steel body
- Extra-long handle
- Tube-setting tab
- Die-clamp bolt
- Mounting flange



### Standard Series

3/16", 1/4", 5/16", 3/8", 1/2" 4.75mm, 6mm, 8mm, 10mm	3/16", 1/4", 5/16" 3/8", 1/2"	—
3/16", 1/4", 5/16", 3/8", 1/2"	—	3/16", 1/4", 5/16" 3/8", 1/2"
3/16", 1/4"	3/16"	—
Part Number	<b>BQ351</b>	<b>BQ352</b>

37° Turret and Dies  
for BrakeQuip flaring tool  
BQ352-BQ



37° Turret and Dies  
for Sykes Pickavant 270  
BQ352-SP



# TUBING TOOLS CONTINUED

## CUTTERS

These tube cutters have a heavy-duty wheel to cut 3/16" to 5/8" stainless steel or other light-walled tubing.

### Professional Tube Cutter

**BQ602**



Replacement blade  
BQ602C

### Mini Tube Cutter

**BQ601**



## LINE STOPPERS

Line Stopper Kits prevent leaks and contamination during service.

### 4-Piece Stopper Kit

**BQ407**

The 5/16" stopper in the 4-Piece Stopper Kit is also suitable for 3/16" and 1/4" lines.



Stopper Size	4-Piece Qty	8-Piece Qty
3/16"-1/4"	—	2
5/16"	1	2
3/8"	1	1
1/2"	1	1
Banjo	1	2

### 8-Piece Stopper Kit

**BQ408**



BQ408 comes in slide-lock clamshell case.

# TUBING TOOLS CONTINUED

## TOOL KITS

### Thread Identification Kit BQ2100

The Thread Identification Kit has gauges for the vast majority of brake plumbing threads, both male and female. Gauges are color-coded for fast selection. The threads are hardened for long life. The gauges can also be used to block-off fluid ports during service.



Imperial Sizes	Metric Sizes
3/8-20 BSF	M9 x 1
3/8-24 UNF	M10 x 1
7/16-20 UNF	M10 x 1.25
7/16-24 UNS	M10 x 1.5
1/2-20 UNF	M11 x 1.25
9/16-18 UNF	M12 x 1
9/16-20 UNS	M12 x 1.25
	M12 x 1.5
	M14 x 1.5

### Bleeder Buster Kit BQ2200

Use this kit to remove and replace frozen bleeder screws. All kit components are available individually as replacement parts.



Kit includes:

Part Number	Qty
BQ2200-1	1
BQ2200W	1
BQ315	10
BQ316	10
BQ4433	4
BQ4434	4
BQ4435	4
BQ4438	4
BQ4439	4
BQ4440	4
BQ4441	4
BQ4442	4
BQ4443	4
BQ4444	4
BQ4445	4
BQ4446	4



**Bleed Screw Removal Tool**  
BQ2200-1



**Filler Wire Replenishment Kit**  
BQ2200W

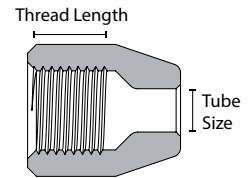
/// Full list of bleed screws and caps are on page 156.

# HARDWARE

## TUBE NUTS

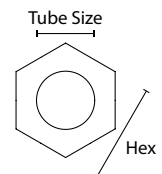
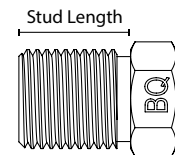
### Female Imperial

Thread	Tube Size	Thread Length	Seat	Hex	Part Number
3/8-24 UNF	3/16"	7.5mm	37°	7/16"	BQ55
3/8-24 UNF	3/16"	5.6mm	45°	7/16"	BQ9176
7/16-20 UNF	1/4"	5.8mm	37°	9/16"	BQ57
1/2-20 UNF	5/16"	10mm	45°	5/8"	BQ9177
9/16-18 UNF	3/8"	7.5mm	37°	11/16"	BQ9201
9/16-18 UNF	3/8"	8.6mm	45°	11/16"	BQ9239
9/16-18 UNF	3/8"	6.1mm	o-ring pilot	5/8"	BQ9207
5/8-18 UNF	3/8"	8.6mm	45°	13/16"	BQ9219



### Male Imperial

Thread	Tube Size	Stud Length	Flare	Hex	Part Number
3/8-20 BSF	3/16"	14mm	45°	3/8"	BQ4276
3/8-24 UNF	3/16"	9.1mm	45°	3/8"	BQ5555
3/8-24 UNF	3/16"	9.1mm	45°	3/8"	BQ5555B <i>brass</i>
3/8-24 UNF	3/16"	9.1mm	45°	3/8"	BQ5555SS <i>stainless</i>
3/8-24 UNF	3/16"	17mm	45°	3/8"	BQ4285
7/16-20 UNF	3/16"	17.5mm	45°	11mm	BQ6118
7/16-20 UNF	1/4"	18mm	45°	7/16"	BQ4277
7/16-24 UNS	3/16"	9.1mm	45°	11mm	BQ5842
7/16-24 UNS	3/16"	9.1mm	45°	11mm	BQ5842SS <i>stainless</i>
7/16-24 UNS	1/4"	12.5mm	45°	7/16"	BQ2577
7/16-24 UNS	1/4"	12.5mm	45°	7/16"	BQ2577SS <i>stainless</i>
1/2-20 UNF	3/16"	10.2mm	45°	1/2"	BQ9184
1/2-20 UNF	1/4"	14mm	45°	1/2"	BQ9187
1/2-20 UNF	5/16"	10.2mm	45°	1/2"	BQ2578
9/16-18 UNF	3/16"	14mm	45°	9/16"	BQ9185
9/16-18 UNF	1/4"	14mm	45°	9/16"	BQ9186
5/8-18 UNF	3/8"	10.2mm	45°	5/8"	BQ9181

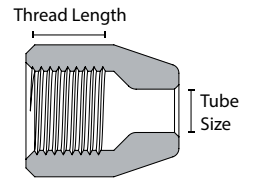


/// Copper Seat Seal (Flare Gasket) is on page 154.  
 /// Imperial Tube Nuts Assortment Kit, BQ7006, is on page 158.

# HARDWARE *CONTINUED*

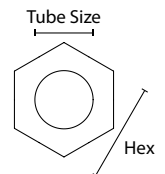
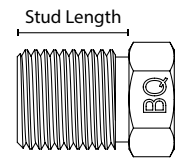
## Female Metric

Thread	Tube Size	Thread Length	Seat	Hex	Part Number
M10×1	3/16"	9mm	45°	13mm	BQ9175
M12×1	3/16"	9mm	45°	16mm	BQ9174
M12×1	1/4"	9mm	45°	16mm	BQ9179
M12×1.25	1/4"	8mm	45°	16mm	BQ9156
M12×1.5	1/4"	9mm	45°	16mm	BQ9178
M14×1.5	10mm	10.9mm	37°	17mm	BQ9208
M16×1.5	10mm	10.9mm	37°	19mm	BQ9209
M16×1.5	3/8"	11mm	45°	19mm	BQ9226
M18×1.5	12mm	14.4mm	37°	21mm	BQ9210



## Male Metric

Thread	Tube Size	Stud Length	Flare	Hex	Part Number
M9×1	3/16"	14mm	45°	10mm	BQ4510
M10×1	3/16"	11.6mm	45°	11mm	BQ4511
M10×1	3/16"	11.6mm	45°	11mm	BQ4511SS <i>stainless</i>
M10×1	3/16"	14mm	45°	11mm	BQ4511LT <i>long thread</i>
M10×1	3/16"	12.6mm	DIN	11mm	BQ72
M10×1.25	3/16"	11.6mm	45°	11mm	BQ4512
M10×1.5	3/16"	11.6mm	45°	11mm	BQ9188
M11×1	3/16"	15mm	45°	11mm	BQ9189
M11×1.25	3/16"	15mm	45°	11mm	BQ9190
M11×1.5	3/16"	13.1mm	45°	13mm	BQ9191
M12×1	3/16"	11.6mm	45°	13mm	BQ9180
M12×1	1/4"	11.6mm	45°	13mm	BQ4513
M12×1	1/4"	11.6mm	45°	12mm	BQ4513SS <i>stainless</i>
M12×1	1/4"	14.6mm	45°	13mm	BQ4513LT <i>long thread</i>
M12×1	1/4"	14.9mm	DIN	13mm	BQ9169
M12×1.25	3/16"	11.6mm	45°	13mm	BQ9192
M12×1.25	1/4"	11.6mm	45°	13mm	BQ9157
M12×1.5	3/16"	11.6mm	45°	13mm	BQ9193
M12×1.5	1/4"	11.6mm	45°	13mm	BQ9182
M13×1	3/16"	15mm	45°	13mm	BQ9194
M13×1.25	3/16"	15mm	45°	13mm	BQ9195
M13×1.5	3/16"	15mm	45°	13mm	BQ9196
M14×1.5	1/4"	11.6mm	45°	15mm	BQ9183
M14×1.5	5/16"	11.6mm	45°	15mm	BQ9197
M14×1.5	5/16"	15mm	DIN	16mm	BQ9149
M16×1.5	5/16"	11.6mm	45°	17mm	BQ9198
M16×1.5	3/8"	16mm	45°	17mm	BQ9166
M16×1.5	10mm	13.2mm	DIN	16mm	BQ9148
M18×1.5	5/16"	16mm	45°	18mm	BQ9199



/// Metric Tube Nuts Assortment Kit, BQ7005, is on page 158.

# HARDWARE CONTINUED

## ELBOWS

### 90° Swivel Elbow

#### BQ141

Port thread 3/8-24 UNF, inverted  
 Tube nut 3/8-24 UNF

Zinc-nickel BQ141Z



BQ141 is useful in tight spots that require an inverted seat connection.

### JIC Elbow

#### BQ252

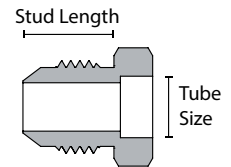
Port thread 3/8-24 UNF, inverted  
 Stud thread 3/8-24 UNF  
 Dash size -03 JIC



## BRAZE-ON FITTINGS

### Aluminum

Thread	Tube Size	Stud Length	Type	Hex	Part Number
9/16-18 UNF	3/8"	14.1 mm	-06 JIC	5/8"	BQ170
5/8-18 UNF	3/8"	15.7 mm	45°	11/16"	BQ171
3/4-16 UNF	1/2"	16.7 mm	-08 JIC	13/16"	BQ172
7/8-14 UNF	5/8"	22.6 mm	-10 JIC	15/16"	BQ173
1 1/16-14 UNS	3/4"	25.4 mm	45°	1 1/16"	BQ174



### Steel

Thread	Tube Size	Stud Length	Type	Hex	Part Number
3/8-24 UNF	3/16"	12.2mm	-03 JIC	7/16"	BQ153
9/16-18 UNF	3/8"	14.1 mm	-06 JIC	5/8"	BQ226
9/16-18 UNF	1/2"	14.1 mm	-06 JIC	11/16"	BQ228
9/16-18 UNF	10mm	14.1 mm	-06 JIC	5/8"	BQ227



## PRE-FLUXED BRAZING RODS

### Silver

#### BQ33

For professional brazing of steel, stainless, brass, or any combination of these metals. Designed for brazing high-pressure fittings. No cadmium. 18" long.



pack of 8

### Aluminum

#### BQ34

For brazing aluminum. 18" long.



pack of 5

# HARDWARE CONTINUED

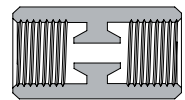
## FEMALE UNIONS

### Imperial

Thread	Seat	Hex	Overall Length	Part Number
3/8-24 UNF	45°	1/2"	22.2mm	BQ110
3/8-24 UNF	45°	1/2"	22.2mm	BQ110B <i>brass</i>
3/8-24 UNF	bubble	1/2"	25mm	BQ115
7/16-24 UNS	45°	9/16"	22.2mm	BQ111
7/16-24 UNS	45°	9/16"	22.2mm	BQ111SS <i>stainless</i>
1/2-20 UNF	45°	5/8"	25mm	BQ112
9/16-18 UNF	45°	3/4"	27mm	BQ119
5/8-18 UNF	45°	3/4"	27mm	BQ113



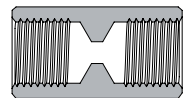
45° Inverted



### Metric

Thread	Seat	Hex	Overall Length	Part Number
M10×1	45°	13mm	24mm	BQ117
M10×1	DIN	13mm	25mm	BQ114
M12×1	45°	16mm	25mm	BQ116
M12×1	DIN	16mm	27mm	BQ147

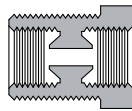
Bubble or DIN



### Bulkhead Union

#### BQ148

Thread	7/16-24 UNS (2)
Seat type	45° inverted
Mount thread	5/8-18 UNF
Hex	19mm



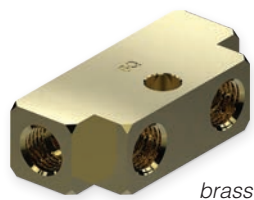
Secure with BQ13 bulkhead nut.

/// Female Unions Assortment Kit, BQ7009, is on page 158.

### Tandem Trailer Fittings

#### BQ4700B

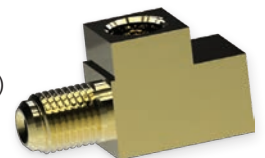
Thread	3/8-24 UNF (4)
Seat type	inverted

*brass*

Block off excess ports with BQ503 plug.

#### BQ4705B

Threads	3/8-24 UNF ports (2)
	3/8-24 UNF stud
Seat type	inverted

*brass*

Block off excess ports with BQ503 plug.



# HARDWARE CONTINUED

## MALE UNIONS

### BQ195

Thread	3/8-24 UNF studs (2)
Seat type	inverted
Hex	1/2"
Stud length	16 mm
Overall length	44 mm



### BQ292

Thread	3/8-24 UNF studs (2)
Dash size	-03 JIC
Hex	7/16"
Stud length	12.2 mm
Overall length	30.7 mm



Stainless BQ292SS

### BQ293SS

Thread	3/8-24 UNF studs (2)
Dash size	-03 JIC
Hex	7/16"
Stud length	12.2 mm
Overall length	45.9 mm



*stainless*

Use with BQ78 nut.

## BULKHEAD NUTS

### Imperial

Thread	Hex Size	Thickness	Part Number
3/8-24 UNF	1/2"	5 mm	BQ78
7/16-20 UNF	5/8"	6 mm	BQ80
1/2-20 UNF	3/4"	6 mm	BQ83
5/8-18 UNF	15/16"	8 mm	BQ13
11/16-18 UNS	1"	8 mm	BQ77
3/4-16 UNF	1 1/16"	8 mm	BQ84
7/8-14 UNF	1 1/8"	8 mm	BQ75
7/8-18 UNS	1 1/8"	8 mm	BQ89



### Metric

Thread	Hex Size	Thickness	Part Number
M10×1	13 mm	5 mm	BQ79
M12×1	19 mm	6 mm	BQ81
M12×1.5	19 mm	6 mm	BQ82
M16×1.5	22 mm	7 mm	BQ87
M18×1.5	25 mm	8 mm	BQ86
M20×1.5	27 mm	8 mm	BQ85

# HARDWARE CONTINUED

## TEES

### Female Imperial

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
1/8-27 NPT	NPT	31.75mm	Bolt	8.2mm	14mm	BQ93A
3/8-24 UNF	45°	T-shape	none	none	1/2"	BQ264
3/8-24 UNF	45°	31.75mm	Bolt	8.2mm	1/2"	BQ90A
3/8-24 UNF	45°	28.6mm	Bolt	8.2mm	1/2"	BQ56A
3/8-24 UNF	45°	28.6mm	Bolt	8.2mm	1/2"	BQ56AB <i>brass</i>
3/8-24 UNF	45°	28.6mm	Bolt	8.2mm	1/2"	BQ56ASS <i>stainless</i>
7/16-20 UNF	bubble	31.75mm	Bolt	8.2mm	14mm	BQ94A
7/16-24 UNS	45°	31.75mm	Bolt	8.2mm	14mm	BQ92A



### Female Metric

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
M10×1	45°	31.75mm	Bolt	8.2mm	1/2"	BQ91A
M10×1	DIN	31.75mm	Bolt	7.2mm	14mm	BQ95A

### Male Imperial

Thread	Dash Size	Diameter	Mount	Mount Hole	Thickness	Part Number
3/8-24 UNF	-03 JIC	31.75mm	Bolt	8.2mm	1/2"	BQ360
7/16-20 UNF	-04 JIC	31.75mm	Bolt	8.2mm	1/2"	BQ361



### Tees with Bracket

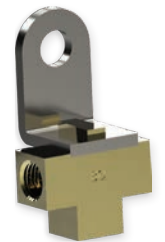
#### BQ7812

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Mount hole size	8.5mm
Brass	BQ7813B



#### BQ7813B

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Mount hole size	8.8mm
Steel	BQ7812



*brass*

### Double Bolt Tee

#### BQ177SS

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Diameter	47mm
Thickness	1/2"
Mount hole size	8.5mm

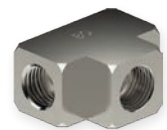
*stainless  
for Harley*



### NPT Tee

#### BQ265

Threads	3/8-24 UNF ports (2) 1/8-27 NPT port (middle)
Seat type	inverted (2)



# HARDWARE CONTINUED

## CLIPS & BRACKETS

Universal Clip  
**BQ3052**



Universal Clip  
**BQ3052SS**



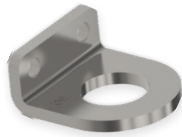
Clip - Toyota  
**BQ3053**



### Universal Brackets

**BQB06**

Hole size 19mm  
Mount holes 5mm



**BQB244**

Hole size 17mm  
Mount holes 6.8mm



Bracket Retaining Screws  
**BQ71**

*pack of 50*



Self-Drilling Screws  
**BQ811**

*pack of 20*



### Tube Clamps

Tube size	Part Number
3/16"	BQ249
1/4"	BQ250
5/16"	FL35
3/8"	FL34

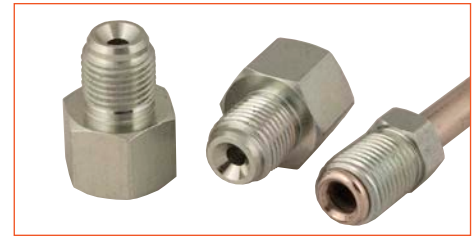
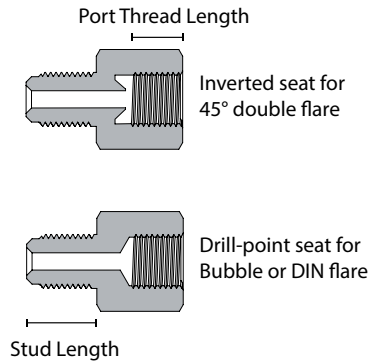


*plastic*

# HARDWARE CONTINUED

## THREAD ADAPTERS

### Male-Female



When deciding if an adapter will work with a specific port, think of the Stud Fit as a "tube-size equivalent," in that the adapter will seat properly if the corresponding tube and tube nut would also seat properly.

Port Thread	Stud Thread	Port Seat	Tube Size	Stud Length	Stud Fit	Hex	Part Number
1/8-27 NPT	3/8-24 UNF	NPT	-	11.2mm	-	9/16"	BQ247
1/8-27 NPT	1/2-20 UNF	NPT	-	11 mm	-	9/16"	BQ248
1/8-27 NPT	M10×1.5	NPT	-	11 mm	-	9/16"	BQ187
3/8-24 UNF	1/8-27 NPT	45°	3/16"	NPT	3/16"	1/2"	BQ48
3/8-24 UNF	3/8-24 UNF	45°	3/16"	12mm	3/16"	9/16"	BQ156
3/8-24 UNF	7/16-20 UNF	45°	3/16"	12mm	3/16"	9/16"	BQ47
3/8-24 UNF	7/16-24 UNS	45°	3/16"	12mm	3/16"	9/16"	BQ46
3/8-24 UNF	1/2-20 UNF	45°	3/16"	12mm	3/16"	5/8"	BQ9300
3/8-24 UNF	1/2-20 UNF	45°	3/16"	12mm	5/16"	5/8"	BQ120
3/8-24 UNF	9/16-18 UNF	45°	3/16"	12mm	3/16"	11/16"	BQ124
3/8-24 UNF	9/16-18 UNF	Bubble	3/16"	12mm	3/16"	11/16"	BQ262
3/8-24 UNF	9/16-20 UNS	45°	3/16"	12mm	3/16"	11/16"	BQ121
3/8-24 UNF	M10×1	45°	3/16"	12.6mm	3/16"	9/16"	BQ49
3/8-24 UNF	M10×1	Bubble	3/16"	12mm	3/16"	13mm	BQ125
3/8-24 UNF	M12×1	45°	3/16"	12mm	3/16"	16mm	BQ383
7/16-24 UNS	3/8-24 UNF	45°	1/4"	11.2mm	3/16"	9/16"	BQ45
7/16-24 UNS	1/2-20 UNF	45°	1/4"	12mm	3/16"	5/8"	BQ9301
7/16-24 UNS	1/2-20 UNF	45°	1/4"	12mm	5/16"	5/8"	BQ122
7/16-24 UNS	9/16-18 UNF	45°	1/4"	12mm	3/16"	11/16"	BQ123
1/2-20 UNF	3/8-24 UNF	45°	3/16"	12mm	3/16"	11/16"	BQ9304
1/2-20 UNF	3/8-24 UNF	45°	5/16"	11.2mm	3/16"	16mm	BQ260
1/2-20 UNF	7/16-24 UNS	45°	5/16"	12mm	1/4"	5/8"	BQ127
9/16-18 UNF	3/8-24 UNF	45°	5/16"	11.2mm	3/16"	11/16"	BQ261
M10×1	3/8-24 UNF	45°	3/16"	11.2mm	3/16"	1/2"	BQ50
M10×1	M10×1	DIN	3/16"	13mm	3/16"	16mm	BQ40
M10×1	M10×1.25	45°	3/16"	12mm	3/16"	13mm	BQ42
M10×1	M12×1	45°	3/16"	12mm	3/16"	16mm	BQ43
M10×1.25	M10×1	45°	3/16"	12.6mm	3/16"	13mm	BQ41
M10×1.5	M10×1	45°	3/16"	13mm	3/16"	15mm	BQ9305
M11×1.25	3/8-24 UNF	45°	3/16"	11.2mm	3/16"	1/2"	BQ9307
M12×1	1/8-27 NPT	DIN	1/4"	NPT	3/16"	16mm	BQ246
M12×1.5	1/8-27 NPT	45°	3/16"	NPT	3/16"	14mm	BQ379
M12×1	M10×1	45°	1/4"	12.6mm	3/16"	16mm	BQ44
M14×1.5	1/8-27 NPT	45°	3/16"	NPT	3/16"	17mm	BQ380

/// Male-Female Adapters Assortment Kit, BQ7004, is on page 157.

# HARDWARE CONTINUED

## Male-Male

JIC Thread	2nd Stud Thread	2nd Stud Length	Hex	Overall Length	Part Number
3/8-24 UNF (-03 JIC)	3/8-24 UNF	16mm	1/2"	34.2mm	BQ135
3/8-24 UNF (-03 JIC)	1/4-28 UNF	16mm	1/2"	36mm	BQ132
3/8-24 UNF (-03 JIC)	1/2-20 UNF	13mm	1/2"	33mm	BQ168
3/8-24 UNF (-03 JIC)	9/16-18 UNF	15mm	9/16"	33mm	BQ197
3/8-24 UNF (-03 JIC)	M10×1	16mm	1/2"	34.2mm	BQ129
3/8-24 UNF (-03 JIC)	M10×1.25	16mm	1/2"	36mm	BQ128
3/8-24 UNF (-03 JIC)	M10×1.5	16mm	1/2"	60mm	BQ130
7/16-20 UNF (-04 JIC)	3/8-24 UNF	16mm	1/2"	37.1mm	BQ131
7/16-20 UNF (-04 JIC)	7/16-24 UNS	16mm	9/16"	36mm	BQ134
7/16-20 UNF (-04 JIC)	M10×1	11.6mm	1/2"	31.6mm	BQ176
7/16-20 UNF (-04 JIC)	M12×1	16mm	14mm	36mm	BQ144
7/16-20 UNF (-04 JIC)	M12×1.25	16mm	14mm	37mm	BQ149

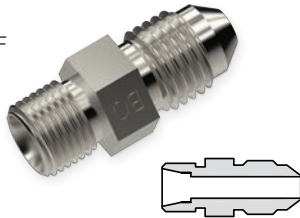


/// Male-Male Adapters Assortment Kit, BQ7010, is on page 158.

### -04 JIC to M10×1

#### BQ145

JIC thread	7/16-20 UNF
Dash size	-04 JIC
2nd thread	M10×1
Hex	12mm
Stud length	9mm
Overall length	29mm



Designed to be used with ISO 24° cone connector.

### -03 JIC to 1/8-28 BSPP

#### BQ157

JIC thread	3/8-24 UNF
Dash size	-03 JIC
2nd thread	1/8-28 BSPP
Hex	5/8"
Stud length	6.5mm
Overall length	25.9mm



Designed to be used with bonded washer (dowty seal).

# HARDWARE *CONTINUED*

## BUMP TUBE ADAPTERS

These adapters are for power steering and fuel systems.

### Male to O-ring Pilot

O-ring pilot includes a high-temperature Viton O-ring.

Stud Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
1/2-20 UNF (-05 JIC)	1/2-20 UNF	9/16"	37.4mm	5MBT-5MJ
9/16-18 UNF (-06 JIC)	11/16-18 UNS	3/4"	41.9mm	7MBT-6MJ
9/16-18 UNF (-06 JIC)	M14 × 1.5	5/8"	38.8mm	14MMBT-6MJ
9/16-18 UNF (-06 JIC)	M16 × 1.5	17mm	38.9mm	16MMBT-6MJ
9/16-18 UNF (-06 JIC)	M18 × 1.5	3/4"	39.4mm	18MMBT-6MJ



### Male to O-ring Boss

O-ring boss includes a PTFE crush ring

Stud Thread	O-ring Boss Thread	Hex	Overall Length	Part Number
9/16-18 UNF (-06 JIC)	M16 × 1.5 (Ford type III)	18mm	32.1mm	16MMORB-6MJ



### Female to O-ring Pilot

O-ring pilot includes a high-temperature Viton O-ring.

Port Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
5/8-18 UNF inverted	M16 × 1.5	3/4"	30.8mm	16MMBT-6FI



/// Bump Tube Adapter Assortment Kit, BQ7003, is on page 157.

## TRANSMISSION LINE ADAPTERS

### Straight

#### BQ182

Thread	5/8-18 UNF
Seat type	inverted



### 90°

#### BQ183

Thread	5/8-18 UNF
Seat type	inverted



# HARDWARE CONTINUED

## COPPER WASHERS

Sold in packs of 20.

Bolt Size	Diameter	Thickness	Part Number
3/8"	5/8"	1.5 mm	BQ3858
7/16"	18 mm	1.5 mm	BQ1118
1/2"	20 mm	2 mm	BQ1320
9/16"	21 mm	2 mm	BQ1421
8 mm	13 mm	1.3 mm	BQ813
10 mm	16 mm	1.5 mm	BQ1016
12 mm	18 mm	1.5 mm	BQ1218
15 mm	22 mm	2 mm	BQ1522
16 mm	24 mm	2 mm	BQ1624

Copper Seat Seal  
(Flare Gasket)

BQ244  
pack of 10



/// Copper Washer Assortment Kit, BQ7000, is on page 157.

## BANJO BOLTS

### Standard

Thread	Stud Length	Hex	Part Number	Washer
3/8-24 UNF	25 mm	11 mm	BQ8093	BQ3858
7/16-20 UNF	23.8 mm	1/2"	BQ8089	BQ1118
7/16-20 UNF	27 mm	11 mm	BQ8096	BQ1118
7/16-24 UNS	26.5 mm	1/2"	BQ8090	BQ1118
1/2-20 UNF	31 mm	9/16"	BQ8097	BQ1320
M8×1	17 mm	10 mm	BQ8076	BQ813
M8×1.25	16 mm	10 mm	BQ8077	BQ813
M10×1	22 mm	11 mm	BQ8095	BQ1016
M10×1	26 mm	11 mm	BQ8094	BQ1016
M10×1.25	22 mm	11 mm	BQ8099	BQ1016
M10×1.5	20 mm	11 mm	BQ8075	BQ1016
M10×1.5	23 mm	11 mm	BQ8086	BQ1016
M10×1.5	23 mm	11 mm	BQ8086SS	BQ1016
M10×1.5	27 mm	11 mm	BQ8088	BQ1016
M11×1.25	23 mm	11 mm	BQ8087	BQ1118
M12×1	21.3 mm	13 mm	BQ8098	BQ1218
M12×1.25	25 mm	13 mm	BQ8078	BQ1218
M12×1.5	25 mm	13 mm	BQ8092	BQ1218

stainless



### Double

Thread	Stud Length	Hex	Part Number	Washer
3/8-24 UNF	34.5 mm	7/16"	BQ8085	BQ3858
M10×1	34.5 mm	11 mm	BQ8083	BQ1016
M10×1.25	34.5 mm	11 mm	BQ8084	BQ1016



/// Banjo Bolt Assortment Kit, BQ7007, is on page 158.



# HARDWARE CONTINUED

## BANJO ADAPTERS

**Block** Block banjo adapter ports have an inverted seat.

Thread	Hole Size	Thickness	Width	Part Number
3/8-24 UNF	10.2mm	1/2"	17 mm	BQ60
7/16-24 UNS	11.2mm	14mm	18 mm	BQ62
1/2-20 UNF	12.9mm	16mm	20 mm	BQ63
M10×1	10.2mm	13mm	17 mm	BQ61



**Round** Round banjo adapters have a JIC stud.

Thread	Dash Size	Hole Size	Thickness	Width	Overall Length	Part Number
3/8-24 UNF	-03 JIC	10mm	10mm	17 mm	42mm	BQ150 <i>tube</i>
3/8-24 UNF	-03 JIC	10mm	10mm	17 mm	19.6mm	BQ151
3/8-24 UNF (2)	-03 JIC	10mm	10mm	17 mm	39.2mm	BQ152 <i>union</i>
7/16-20 UNF	-04 JIC	10mm	10mm	18 mm	42mm	BQ155 <i>tube</i>
1/2-20 UNF	-05 JIC	14mm	14mm	24 mm	26mm	BQ271
1/2-20 UNF	-05 JIC	14mm	14mm	24 mm	44mm	BQ392 <i>tube</i>
9/16-18 UNF	-06 JIC	16mm	16mm	28 mm	44mm	BQ393 <i>tube</i>



/// Banjo Adapters Assortment Kit, BQ7001, page 157.

## BRAZE-ON BANJO HEADS

Hole Size	Thickness	Width	Tube Size	Overall Length	Part Number
7/16"	10mm	19mm	3/16"	27.5mm	BQ225
10.2mm	8mm	17mm	3/16"	25.5mm	BQ223
10.2mm	10mm	18mm	3/16"	26mm	BQ224
12.2mm	12mm	22mm	10mm	27mm	BQ178
14.2mm	14mm	24mm	10mm	28mm	BQ179



/// Brazing rods are on page 146.

# HARDWARE CONTINUED

## BLEED SCREWS



Thread	Stud Length	Hex	Part Number	Cap
1/4-28 UNF	15.3mm	7 mm	BQ4439	BQ315
5/16-24 UNF	17.5mm	5/16"	BQ4438	BQ316
3/8-24 UNF	20.8mm	3/8"	BQ4433	BQ315
7/16-20 UNF	20.5mm	7/16"	BQ4445	BQ316
7/16-24 UNS	24.5mm	7/16"	BQ4444	BQ316
M7×1	12.5mm	8mm	BQ4436	BQ315
M7×1	21.5mm	7mm	BQ4441	BQ315
M8×1	17.5mm	8mm	BQ4443	BQ316
M8×1.25	22.1mm	8mm	BQ4442	BQ316
M10×1	19.5mm	10mm	BQ4435	BQ315
M10×1	24.1mm	10mm	BQ4434	BQ315
M10×1.25	20.4mm	10mm	BQ4446	BQ316
M10×1.5	17.9mm	10mm	BQ4440	BQ316

### Bleed Screw Caps



Part Number	Size
BQ315	Small
BQ316	Large

## Bleed Screw Repair Kit BQ181



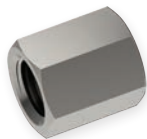
Rescue your brake component that has a stripped or broken bleed screw: simply drill and tap to 1/8-27 NPT.

/// Bleeder Buster Kit, BQ2200, is on page 143.

/// Bleed Screws Assortment Kit, BQ7014, is on page 159.

## BRAKE HOSE CAPS & PLUGS

### Caps



Thread	Hex	Part Number
3/8-24 UNF	1/2"	BQ160
7/16-20 UNF	9/16"	BQ162
7/16-24 UNS	9/16"	BQ161
1/2-20 UNF	5/8"	BQ163
M10×1	13mm	BQ164
M10×1.25	13mm	BQ165
M12×1	16mm	BQ166
M12×1.5	16mm	BQ167

### Plugs



Thread	Fits	Hex	Part Number
1/8-27 NPT	-	7/16"	BQ508
3/8-24 UNF	inverted seat	3/8"	BQ503
7/16-24 UNS	inverted seat	7/16"	BQ504
M10×1	drill-point seat	11 mm	BQ506
M10×1	inverted seat	11 mm	BQ502
M12×1	drill-point seat	13 mm	BQ507
M12×1	inverted seat	13 mm	BQ505

/// Brake Hose Plugs & Caps Assortment Kit, BQ7015, is on page 159.

# HARDWARE CONTINUED

## ASSORTMENT KITS

Assortment kits contain a selection of hard-to-find parts and problem-solvers. Call about custom branding.

### Copper Washers

#### BQ7000

Part Number	Qty
BQ1016	20
BQ1118	20
BQ1218	20
BQ1320	20
BQ1421	10
BQ1522	10
BQ1624	10
BQ3858	20



/// Copper washer listing is on page 154.

### Bump Tube Adapters

#### BQ7003

Part Number	Qty
5MBT-5MJ	4
7MBT-6MJ	4
14MMBT-6MJ	4
16MMBT-6FI	4
16MMBT-6MJ	4
18MMBT-6MJ	4



/// Bump tube adapter listing is on page 153.

### Banjo Adapters

#### BQ7001

Part Number	Qty
BQ60	4
BQ61	4
BQ62	4
BQ63	4
BQ150	4
BQ151	4



/// Banjo adapter listing is on page 155.

### Male-Female Adapters

#### BQ7004

Part Number	Qty
BQ40	2
BQ41	4
BQ42	4
BQ43	4
BQ44	4
BQ45	4
BQ46	4
BQ47	4
BQ48	4
BQ49	4
BQ50	4
BQ120	4
BQ121	2
BQ122	4
BQ123	2
BQ124	2
BQ125	4
BQ156	4



/// Male-Female adapter listing is on page 151.

### 3-Way Tube Tees

#### BQ7002

Part Number	Qty
BQ56A	2
BQ90A	2
BQ91A	2
BQ92A	2
BQ93A	2
BQ95A	2



/// Tee listing is on page 149.

# HARDWARE CONTINUED

## Metric Tube Nuts

### BQ7005

Part Number	Qty
BQ72	4
BQ4511	10
BQ4512	6
BQ4513	6
BQ9174	4
BQ9175	4
BQ9178	4
BQ9179	4
BQ9180	4
BQ9182	4
BQ9183	4
BQ9188	4
BQ9191	4
BQ9192	4
BQ9193	4



/// Metric tube nut listing is on page 144.

## Imperial Tube Nuts

### BQ7006

Part Number	Qty
BQ57	4
BQ2577	10
BQ2578	6
BQ4276	4
BQ4277	4
BQ4285	4
BQ5555	10
BQ5842	10
BQ6118	6
BQ9176	4
BQ9177	4
BQ9184	4
BQ9185	4
BQ9186	4
BQ9187	4



/// Imperial tube nut listing is on page 144.

## Banjo Bolts

### BQ7007

Part Number	Qty
BQ8086	4
BQ8087	4
BQ8088	4
BQ8089	4
BQ8090	4
BQ8092	4
BQ8093	6
BQ8095	6
BQ8096	4
BQ8097	4
BQ8098	4
BQ8099	4



/// Banjo bolt listing is on page 154.

## Female Unions

### BQ7009

Part Number	Qty
BQ110	4
BQ111	4
BQ114	4
BQ115	4
BQ116	4
BQ117	4



/// Female union listing is on page 147.

## Male-Male Adapters

### BQ7010

Part Number	Qty
BQ129	4
BQ130	4
BQ131	4
BQ134	4
BQ135	4
BQ144	4



/// Male-Male adapter listing is on page 152.

# HARDWARE *CONTINUED*

## Bleed Screws

### BQ7014

Part Number	Qty
BQ315	10
BQ316	10
BQ4433	4
BQ4434	4
BQ4435	4
BQ4438	4
BQ4439	4
BQ4440	4
BQ4441	4
BQ4442	4
BQ4443	4
BQ4444	4
BQ4445	4
BQ4446	4



/// Bleed screw listing is on page 156.

## Brake Hose Plugs & Caps

### BQ7015

Part Number	Qty
BQ160	2
BQ161	2
BQ163	2
BQ164	2
BQ165	2
BQ166	2
BQ167	2
BQ502	2
BQ503	2
BQ504	2
BQ505	2
BQ506	2
BQ507	2
BQ508	2
BQ1020R	1



BQ1020R

/// Plug and cap listing is on page 156.

# INDEX

## Hose

Brake Hose, Braided	14, 106
Brake Hose, Rubber	14
Power Steering, High Pressure	124
Power Steering, Low Pressure	124
Remote Reservoir Hose	138

## Tube

316L Stainless Steel	137
Copper-Nickel	136
FuelFlex Tubing	133

## Tools

Banjo Benders	19
Bleeder Buster	143
Crimp Setters	10
Cutters	16, 106, 142
Flaring Tools	141
Fuel	133
Machine Maintenance	9
Skiving Tool	17, 106
Testing (inc. cones)	11
Thread ID Kit	143
Tubing Tools	139

## Universals & Lifesavers

Compression Fittings, Fuel	132
Compression Fittings, Power Steering	129
Compression Fittings, Standard Brake	29
Lifesavers, Low Profile	111
Lifesavers, Power Steering	129
Lifesavers, Standard Brake	27
Universal Banjos, Standard Brake	30
Universals, Low Profile	111
Universals, Power Steering	129
Universals, Standard Brake	26

## PART INDEX

5MBT-5MJ	125, 153
7MBT-6MJ	125, 153
14MMBT-6MJ	125, 153
16MMBT-6FI	125, 153
16MMBT-6MJ	125, 153
16MMORB-6MJ	125, 153
18MMBT-6MJ	125, 153

## BQ

BQ-01	133
BQ11	15
BQ12	19
BQ13	148
BQ21	12
BQ22A	19
BQ22B	19
BQ22C	19
BQ23	11
BQ33	146
BQ34	146
BQ35	9
BQ37	10
BQ40	151
BQ41	151
BQ42	151
BQ43	151
BQ44	151
BQ45	151
BQ46	151
BQ47	151
BQ48	151
BQ49	151
BQ50	151

BQ55	144	BQ94A	149	BQ145	152
BQ56A	149	BQ95A	149	BQ147	147
BQ56AB	149	BQ97	16	BQ148	147
BQ56ASS	149	BQ98	16	BQ149	152
BQ57	144	BQ103	14	BQ150	155
BQ60	155	BQ105	14	BQ151	155
BQ61	155	BQ110	147	BQ152	155
BQ62	155	BQ110B	147	BQ153	146
BQ63	155	BQ111	147	BQ155	155
BQ65	16	BQ111SS	147	BQ156	151
BQ66	16	BQ112	147	BQ157	152
BQ67	16	BQ113	147	BQ160	156
BQ68	16	BQ114	147	BQ161	156
BQ69	16	BQ115	147	BQ162	156
BQ70	16	BQ116	147	BQ163	156
BQ71	19, 150	BQ117	147	BQ164	156
BQ72	145	BQ119	147	BQ165	156
BQ75	148	BQ120	151	BQ166	156
BQ77	148	BQ121	151	BQ167	156
BQ78	148	BQ122	151	BQ168	152
BQ79	148	BQ123	151	BQ170	125, 146
BQ80	148	BQ124	151	BQ171	146
BQ81	148	BQ125	151	BQ172	146
BQ82	148	BQ127	151	BQ173	146
BQ83	148	BQ128	152	BQ174	146
BQ84	148	BQ129	152	BQ176	152
BQ85	148	BQ130	152	BQ177SS	149
BQ86	148	BQ131	152	BQ178	155
BQ87	148	BQ132	152	BQ179	155
BQ89	148	BQ134	152	BQ181	156
BQ90A	149	BQ135	152	BQ182	153
BQ91A	149	BQ141	146	BQ183	153
BQ92A	149	BQ141Z	146	BQ187	151
BQ93A	149	BQ144	152	BQ195	148

BQ197	152	BQ273	18	BQ508	156	BQ4435	156
BQ200	15	BQ274	18	BQ601	142	BQ4436	156
BQ201	15	BQ275	18	BQ602	142	BQ4438	156
BQ202	15	BQ276	19	BQ602C	142	BQ4439	156
BQ203	15	BQ277	19	BQ801	125	BQ4440	156
BQ206	12	BQ288	18	BQ811	150	BQ4441	156
BQ206H	12	BQ289	18	BQ813	154	BQ4442	156
BQ206HS	12	BQ292	148	BQ1005-6	8	BQ4443	156
BQ206S	12	BQ292SS	148	BQ1006-2	8	BQ4444	156
BQ207	12	BQ293SS	148	BQ1013A	8, 9	BQ4445	156
BQ207H	12	BQ294	19	BQ1014	10	BQ4446	156
BQ208	12	BQ296	15	BQ1016	154	BQ4510	145
BQ208H	12	BQ301	14, 106	BQ1020R	11, 159	BQ4511	145
BQ210	18	BQ302BK	14, 106	BQ1021A	10	BQ4511LT	145
BQ210BR	18	BQ303	14, 106	BQ1022	11	BQ4511SS	145
BQ211	18	BQ303BK	14, 106	BQ1026	10	BQ4512	145
BQ211BR	18	BQ303BL	14, 106	BQ1027	10	BQ4513	145
BQ212	18	BQ303RD	14, 106	BQ1028	139	BQ4513LT	145
BQ213	18	BQ310	17	BQ1028-75	139	BQ4513SS	145
BQ213BR	18	BQ311	17	BQ1029	10	BQ4700B	147
BQ215	18	BQ312-BK	15	BQ1030	139	BQ4705B	147
BQ215BR	18	BQ313-SV	133, 134	BQ1030-MB	139	BQ5555	144
BQ216	18	BQ315	156	BQ1118	154	BQ5555B	144
BQ217	18	BQ316	156	BQ1218	154	BQ5555SS	144
BQ218	18	BQ318	133, 134	BQ1320	154	BQ5842	144
BQ223	155	BQ319	133, 134	BQ1421	154	BQ5842SS	144
BQ224	155	BQ320	138	BQ1522	154	BQ6118	144
BQ225	155	BQ321	138	BQ1624	154	BQ7000	157
BQ226	125, 146	BQ322	138	BQ2001W	9	BQ7001	157
BQ227	125, 146	BQ350	141	BQ2002	10	BQ7002	157
BQ228	125, 146	BQ350-1	141	BQ2008	10	BQ7003	157
BQ231	138	BQ350A	141	BQ2010	9	BQ7004	157
BQ232	138	BQ351	141	BQ2033	9	BQ7005	158
BQ233	18	BQ352	141	BQ2091A	10	BQ7006	158
BQ234	18, 104	BQ352-BQ	141	BQ2100	4, 143	BQ7007	158
BQ244	154	BQ352-SP	141	BQ2101B	16	BQ7009	158
BQ246	151	BQ360	149	BQ2103	16	BQ7010	158
BQ247	151	BQ361	149	BQ2104	17, 106	BQ7014	159
BQ248	151	BQ379	151	BQ2110	10	BQ7015	159
BQ249	150	BQ380	151	BQ2200	143, 156	BQ7812	149
BQ250	150	BQ383	151	BQ2200-1	143	BQ7813B	149
BQ251-BK	17	BQ392	155	BQ2200W	143	BQ8075	154
BQ251-BL	17	BQ393	155	BQ2577	144	BQ8076	154
BQ251-GD	17	BQ402	140	BQ2577SS	144	BQ8077	154
BQ251-GR	17	BQ405	139	BQ2578	144	BQ8078	154
BQ251-PP	17	BQ406	140	BQ2696-R3	9	BQ8083	154
BQ251-RD	17	BQ407	142	BQ3052	150	BQ8084	154
BQ251-SV	17	BQ408	142	BQ3052SS	150	BQ8085	154
BQ252	146	BQ412	133	BQ3053	150	BQ8086	154
BQ260	151	BQ436	17, 106	BQ3858	154	BQ8086SS	154
BQ261	151	BQ502	156	BQ3980	9	BQ8087	154
BQ262	151	BQ503	156	BQ4276	144	BQ8088	154
BQ264	149	BQ504	156	BQ4277	144	BQ8089	154
BQ265	149	BQ505	156	BQ4285	144	BQ8090	154
BQ271	155	BQ506	156	BQ4433	156	BQ8092	154
BQ272	18	BQ507	156	BQ4434	156	BQ8093	154



INDEX

BQ8094 154  
 BQ8095 154  
 BQ8096 154  
 BQ8097 154  
 BQ8098 154  
 BQ8099 154  
 BQ9148 132, 145  
 BQ9149 132, 145  
 BQ9150 112  
 BQ9151 112  
 BQ9156 145  
 BQ9157 145  
 BQ9166 145  
 BQ9169 145  
 BQ9174 145  
 BQ9175 145  
 BQ9176 144  
 BQ9177 144  
 BQ9178 145  
 BQ9179 145  
 BQ9180 145  
 BQ9181 144  
 BQ9182 145  
 BQ9183 145  
 BQ9184 144  
 BQ9185 144  
 BQ9186 144  
 BQ9187 144  
 BQ9188 145  
 BQ9189 145  
 BQ9190 145  
 BQ9191 145  
 BQ9192 145  
 BQ9193 145  
 BQ9194 145  
 BQ9195 145  
 BQ9196 145  
 BQ9197 145  
 BQ9198 145  
 BQ9199 145  
 BQ9201 144  
 BQ9207 144  
 BQ9208 145  
 BQ9209 145  
 BQ9210 145  
 BQ9219 144  
 BQ9226 145  
 BQ9239 144  
 BQ9300 151  
 BQ9301 151  
 BQ9304 151  
 BQ9305 151  
 BQ9307 151

**BQB**

BQB01 97  
 BQB04 97  
 BQB05 98  
 BQB06 97, 150  
 BQB07 98  
 BQB08 102  
 BQB09 102  
 BQB10 98  
 BQB11 98  
 BQB14 98  
 BQB15 98  
 BQB18 102  
 BQB19 102  
 BQB20 98  
 BQB23 102  
 BQB24 98  
 BQB25 98  
 BQB26 98  
 BQB29 98  
 BQB30 98  
 BQB31 104  
 BQB35 102  
 BQB36 102  
 BQB37 102  
 BQB38 102  
 BQB39 99  
 BQB40 99  
 BQB41 99  
 BQB42 99  
 BQB48 102  
 BQB50 99  
 BQB52 102  
 BQB64 99  
 BQB65 99  
 BQB69 102  
 BQB72 103  
 BQB73 103  
 BQB75 99  
 BQB83 99  
 BQB85 103  
 BQB86 99  
 BQB87 99  
 BQB88 99  
 BQB89 100  
 BQB90 100  
 BQB91 100  
 BQB105 100  
 BQB109 103  
 BQB110 103  
 BQB111 100  
 BQB112 100  
 BQB115 100  
 BQB118 100  
 BQB119 100

BQB120 100  
 BQB151 100  
 BQB152 100  
 BQB162 103  
 BQB163 103  
 BQB166 101  
 BQB168 103  
 BQB169 103  
 BQB171 101  
 BQB174 104  
 BQB185 101  
 BQB186 101  
 BQB195 104  
 BQB221 104  
 BQB222 104  
 BQB223 104  
 BQB224 104  
 BQB225 104  
 BQB244 97, 150  
 BQB257 103  
 BQB258 103  
 BQB259 97  
 BQB284 103  
 BQB285 103  
 BQB312 101  
 BQB313 101  
 BQB315 97  
 BQB316 97  
 BQB317 97  
 BQB318 97  
 BQB319 97  
 BQB336 101  
 BQB337 101  
 BQB338 101  
 BQB339 101  
 BQB415 101

**BQFL**

BQFL4500 134

**FL**

FL01-5 132  
 FL01-6 132  
 FL02-5 131  
 FL02-6 131  
 FL03-5 131  
 FL03-6 131  
 FL04-6 131  
 FL05-4 131  
 FL06-5-4 131  
 FL06-6-5 131  
 FL07-5 132  
 FL07-6 132  
 FL08-4-5 131

FL08-5-5 131  
 FL08-5-6 131  
 FL08-6-5 131  
 FL08-6-6 131  
 FL09-5-5 131  
 FL09-5-6 131  
 FL09-6-5 131  
 FL09-6-6 131  
 FL10-5S 132  
 FL10-6S 132  
 FL11-14MM 132  
 FL12-14MM 132  
 FL13-5 132  
 FL13-6 132  
 FL14-5 132  
 FL14-6 132  
 FL15 132  
 FL20-5 131  
 FL20-6 131  
 FL21 133  
 FL22 133  
 FL25 133  
 FL26 133  
 FL34 133, 150  
 FL35 133, 150  
 FL36 132  
 FL37 132  
 FL38 132  
 FL39 132

**HF**

HF01 27  
 HF01SS 27  
 HF02 26  
 HF03 26  
 HF04 23  
 HF05 27  
 HF06 23  
 HF07 23  
 HF07SS 23  
 HF08 25  
 HF09 20  
 HF09SS 20  
 HF09W 20  
 HF10 20  
 HF11 20  
 HF11SS 20  
 HF12 21  
 HF12SS 21  
 HF13 21  
 HF13SS 21  
 HF14 21  
 HF15 23  
 HF15SS 23  
 HF16 22

HF16SS	22	HF403	25	HFB72	38	HFB236	31
HF17	22	HF404	26	HFB73	48	HFB239	36
HF17SS	22	HF410	21	HFB75	48	HFB240	36
HF18	24			HFB77	40	HFB242	36
HF26	27			HFB78	39	HFB243	41
HF27	27			HFB79	39	HFB245	36
HF28	24	HFB01	47	HFB81	30	HFB246	36
HF29	24	HFB02	52	HFB86	38	HFB247	36
HF30	29	HFB03	47	HFB87	38	HFB248	36
HF31	29	HFB05	47	HFB90	40	HFB249	36
HF33	22	HFB09	52	HFB91	34	HFB250	36
HF34	25	HFB09SS	52	HFB92	52	HFB251	33
HF35	29	HFB10	56	HFB93	52	HFB256	33
HF37	28	HFB11	38	HFB100	31	HFB259	35
HF38	28	HFB12	34	HFB101	40	HFB260	35
HF39	23	HFB13	30	HFB105	58	HFB267	35
HF43SS	22	HFB14	34	HFB106	58	HFB270	45
HF45SS	22	HFB15	52	HFB107	34	HFB276	46
HF61	20	HFB16	33	HFB108	34	HFB277	42
HF62	29	HFB17	30	HFB111	47	HFB278	42
HF63	22	HFB19	57	HFB112	30	HFB283	41
HF71	28	HFB21	30	HFB113	33	HFB284	37
HF72	28	HFB22	30	HFB114	33	HFB285	37
HF73	28	HFB23	30	HFB119	34	HFB286	37
HF74	28	HFB27	47	HFB120	34	HFB288	48
HF77	26	HFB28	52	HFB121	36	HFB300	31
HF81	22	HFB29	47	HFB122	36	HFB306	45
HF82	25	HFB32	47	HFB131	44	HFB307	45
HF83	29	HFB33	47	HFB132	44	HFB310	34
HF92	24	HFB34	48	HFB135	41	HFB312	40
HF94	23	HFB34SS	48	HFB136	41	HFB315	42
HF98	24	HFB35	48	HFB140	41	HFB316	42
HF99	25	HFB37	52	HFB141	41	HFB322	43
HF100	23	HFB37SS	52	HFB144	31	HFB323	43
HF101	23	HFB39	40	HFB145	40	HFB324	43
HF102	21	HFB40	33	HFB148	44	HFB328	37
HF114	29	HFB41	34	HFB150	57	HFB329	37
HF115	25	HFB45	33	HFB155	44	HFB340	53
HF116	25	HFB46	31	HFB156	44	HFB342	48
HF117	25	HFB47	57	HFB158	57	HFB343	48
HF120	27	HFB47SS	57	HFB159	57	HFB344	48
HF125	29	HFB48	39	HFB161	35	HFB345	53
HF135	24	HFB49	33	HFB165	46	HFB348	53
HF137	26	HFB50	48	HFB166	46	HFB349	53
HF139	26	HFB51	35	HFB173	36	HFB351	53
HF142	24	HFB54	38	HFB180	33	HFB352	53
HF145	24	HFB55	39	HFB187	33	HFB353	53
HF150	22	HFB56	38	HFB193	43	HFB354	53
HF154	24	HFB58	41	HFB194	53	HFB357	54
HF155SS	27	HFB59	38	HFB203	44	HFB358	49
HF157BT	22	HFB60	39	HFB209	43	HFB359	49
HF158	25	HFB61	39	HFB210	43	HFB362	54
HF164BT	23	HFB66	38	HFB221	44	HFB363	54
HF164Z	23	HFB67	46	HFB222	44	HFB364	54
HF300	28	HFB68	41	HFB230	42	HFB366	49
HF310	25	HFB69	41	HFB231	42	HFB367	31

## INDEX

HFB373	54	HFB567	51	HFC346	92	HFIF28	60
HFB375	54	HFB568	51	HFC347	92	HFIF31	60
HFB379	40	HFB569	51	HFC348	93	HFIF32	68
HFB380	45	HFB570	51	HFC350	93	HFIF33	70
HFB381	45	HFB573	56	HFC351	93	HFIF34	59
HFB384	45	HFB574	56	HFC352	93	HFIF35	70
HFB386	42	HFB590	32	HFC353	93	HFIF36	68
HFB387	42	HFB591	32	HFC354	93	HFIF36SS	68
HFB397	31	HFB592	32	HFC355	93	HFIF37	59
HFB403	38	HFB593	32	HFC356	93	HFIF38	68
HFB410	37	HFB594	32	HFC357	93	HFIF39	59
HFB411	37	HFB595	32	HFC358	93	HFIF40	68
HFB418	42	HFB597	37	HFC359	93	HFIF43	59
HFB419	42	HFB598	32	HFC360	93	HFIF45	68
HFB430	43	HFB599	32	HFC361	94	HFIF46	61
HFB431	43	HFB623	45	HFC362	94	HFIF47	59
HFB448	58	HFB624	45	HFC365	94	HFIF48	61
HFB450	35	HFB679	58	HFC366	94	HFIF51	71
HFB451	35	HFB681	58	HFC367	94	HFIF52	63
HFB456	54	HFB682	58	HFC368	94	HFIF53	59
HFB457	54			HFC369	94	HFIF54	61
HFB474	31			HFC370	94	HFIF55	59
HFB475	31	<b>HFC</b>		HFC371	94	HFIF56	60
HFB493	32	HFC01	95	HFC372	94	HFIF57	61
HFB494	32	HFC02	95	HFC373	94	HFIF60A	62
HFB519	55	HFC04	91	HFC374	94	HFIF66	60
HFB523	55	HFC05	91	HFC379	95	HFIF70	62
HFB527	55	HFC06	95	HFC380	95	HFIF71	68
HFB528	55	HFC07	95	HFC381	95	HFIF72	68
HFB530	49	HFC09	95	HFC382	95	HFIF73	71
HFB533	56	HFC10	95			HFIF74	69
HFB534	55	HFC12	96	<b>HFIF</b>		HFIF77	62
HFB535	55	HFC13	96	HFIF01	67	HFIF79	71
HFB536	55	HFC15	96	HFIF01B	67	HFIF80	60
HFB537	55	HFC17	96	HFIF01SS	67	HFIF83	69
HFB538	55	HFC18	91	HFIF02	70	HFIF85	69
HFB539	56	HFC19	91	HFIF03	71	HFIF87	69
HFB540	56	HFC301A	96	HFIF05	67	HFIF88	60
HFB541	56	HFC307	96	HFIF06	71	HFIF90	62
HFB542	56	HFC316	91	HFIF07	67	HFIF94	60
HFB544	49	HFC319	91	HFIF08	67	HFIF99	62
HFB545	49	HFC320	91	HFIF09	67	HFIF103	69
HFB546	49	HFC321	91	HFIF10	70	HFIF106	69
HFB547	50	HFC322	91	HFIF11	67	HFIF109	63
HFB548	50	HFC323	91	HFIF14	67	HFIF110	60
HFB551	50	HFC324	92	HFIF15	62	HFIF111	61
HFB552	50	HFC325	92	HFIF18	68	HFIF116	71
HFB553	50	HFC326	92	HFIF19	68	HFIF120	62
HFB554	50	HFC331	96	HFIF20	70	HFIF129	60
HFB555	50	HFC338	92	HFIF21	66	HFIF138	63
HFB556	50	HFC339	92	HFIF22	62	HFIF140	69
HFB557	50	HFC341	92	HFIF23	59	HFIF141	70
HFB558	51	HFC342	92	HFIF24	70	HFIF142	71
HFB559	51	HFC343	92	HFIF25	59	HFIF143	69
HFB562	51	HFC344	92	HFIF26	68	HFIF146	62
HFB563	51	HFC345	92			HFIF147	63

HFIF148	63
HFIF149	63
HFIF152	63
HFIF153	63
HFIF157	61
HFIF172	70
HFIF180	60
HFIF301	69
HFIF304	63
HFIF334B	69

**HFIFX**

HFIFX01	65
HFIFX02	64
HFIFX03	64
HFIFX04	65
HFIFX05	64
HFIFX06	65
HFIFX07	65
HFIFX09	66
HFIFX11	64
HFIFX12	65
HFIFX14	64
HFIFX15	64
HFIFX16	65
HFIFX19	65
HFIFX20	64
HFIFX21	66
HFIFX22	66
HFIFX23	66

**HFIM**

HFIM01	86
HFIM01B	86
HFIM01SS	86
HFIM02	84
HFIM03	86
HFIM03SS	86
HFIM04	87
HFIM05	84
HFIM06	85
HFIM07	85
HFIM08	87
HFIM09	86
HFIM10	86
HFIM11	86
HFIM12	84
HFIM13	87
HFIM14	87
HFIM15	85
HFIM16	87
HFIM18	86
HFIM19	85
HFIM19SS	85

HFIM21	86
HFIM22	85
HFIM24	87
HFIM25	86
HFIM27	87
HFIM28	84
HFIM29	84
HFIM30	84
HFIM32	85
HFIM35	86
HFIM36	86
HFIM40	87

**HFMF**

HFMF01	78
HFMF02	78
HFMF03	75
HFMF04	78
HFMF04SS	78
HFMF05	75
HFMF06	78
HFMF07	81
HFMF08	75
HFMF09	80
HFMF10	81
HFMF11	79
HFMF12	74
HFMF14	79
HFMF15	79
HFMF16	79
HFMF18	72
HFMF19	82
HFMF20	79
HFMF21	80
HFMF22	83
HFMF24	75
HFMF26	79
HFMF27	83
HFMF28	79
HFMF29	79
HFMF31	79
HFMF35	75
HFMF38	75
HFMF39	75
HFMF40	73
HFMF42	82
HFMF43	82
HFMF47	81
HFMF48	72
HFMF50	72
HFMF51	81
HFMF54	75
HFMF55	75
HFMF57	82
HFMF59	76

HFMF62	76
HFMF63	76
HFMF65	76
HFMF69	72
HFMF70	73
HFMF71	76
HFMF79	72
HFMF90	73
HFMF91	82
HFMF92	82
HFMF93	79
HFMF96	76
HFMF99	76
HFMF100	76
HFMF120	80
HFMF121	80
HFMF123	76
HFMF124	76
HFMF128	81
HFMF132	81
HFMF191	81
HFMF308	80
HFMF317	73
HFMF324	73
HFMF325	74
HFMF326	74
HFMF327	76
HFMF328	72
HFMF329	76
HFMF340	77
HFMF342	74
HFMF343	74
HFMF363	77
HFMF364	73
HFMF365	73
HFMF366	80
HFMF367	77
HFMF368	77
HFMF369	77
HFMF370	77
HFMF371	73
HFMF372	77
HFMF375	77
HFMF380	73
HFMF381	77
HFMF382	77
HFMF383	78
HFMF384	78
HFMF385	78
HFMF386	78
HFMF393	80
HFMF396	74
HFMF397	81
HFMFX01	83
HFMFX02	83
HFMFX04	83

HFMFX04-M16	83
HFMFX10	83

**HFMM**

HFMM01	89
HFMM02	88
HFMM03	89
HFMM04	90
HFMM05	90
HFMM06	89
HFMM06SS	89
HFMM08	89
HFMM09	88
HFMM10	88
HFMM11	88
HFMM12	89
HFMM13	90
HFMM17	90
HFMM18	88
HFMM20	88
HFMM21	88
HFMM22	89
HFMM23	89
HFMM24	90
HFMM303	89

**LP**

LP01-3	111
LP01-4	111
LP01-5	111
LP02	111
LP03	111
LP06-7	109
LP07-7	109
LP08Z	109
LP09W-6	107
LP09W-6C	107
LP10W-6	107
LP10W-6C	107
LP11-6	107
LP11W-6	107
LP12W-7	107
LP12W-7C	107
LP13W-7	107
LP13W-7C	107
LP14W-7	108
LP14W-7C	108
LP15-7	109
LP16-6	108
LP16-6C	108
LP16-6SS	108
LP17-6	108
LP17-6C	108
LP17-6SS	108

## INDEX

LP33-6	108
LP33-6C	108
LP33-6SS	108
LP34-M10X1	109
LP34-M10X1SS	109
LP45-6	108
LP45-6C	108
LP46-6	109
LP46-6C	109
LP82-M10X1	110
LP82-M10X1Z	110
LP121	107
LP121SS	107
LP121Z	107
LP124	110
LP124SS	110
LP125	110
LP126	110
LP127	110
LP128W	108
LP145-M10X125	110
LP156	111

### LPB

LPB01-10M	114
LPB01-10MABK	114
LPB01-10MABL	114
LPB01-10MARD	114
LPB01-10MC	114
LPB01-10MSS	114
LPB01-20-10M	114
LPB01-45-10M	114
LPB01-45-10MABK	114
LPB01-45-10MABL	114
LPB01-45-10MARD	114
LPB01-75-10M	114
LPB01-90-10M	114
LPB01-90-10MABK	114
LPB01-90-10MABL	114
LPB01-90-10MARD	114
LPB09-10M	115
LPB09-10MC	115
LPB09-10MSS	115
LPB09-45-10M	115
LPB09-75-10M	115
LPB09-90-10M	115
LPB12-10M	113
LPB14	113
LPB27-8M	113
LPB47-12M	116
LPB171-10M	115
LPB171-10MC	115
LPB178-7	116
LPB178-7C	116
LPB448-7	116

LPB448-7SS	116
LPB448-45-7	116
LPB448-90-7	116
LPB455-10M	114
LPB493-10M	113
LPB494-10M	113
LPB652	116
LPB653	115
LPB654	115
LPB655	115
LPB656	115
LPB657	116
LPB658	116

### LPC

LPC01	122
LPC05	122
LPC06	122
LPC07	122
LPC09	122
LPC12	122
LPC17	122
LPC301	122
LPC301Z	122
LPC331	122

### LPIF

LPIF01	117
LPIF01-6	117
LPIF01-6C	117
LPIF01-6SS	117
LPIF02-7	117
LPIF05	117
LPIF10	117
LPIF126-6	117
LPIF126-6C	117

### LPIFX

LPIFX01	117
---------	-----

### LPIM

LPIM01-6	120
LPIM02-6	120
LPIM02-6SS	120
LPIM03-7	120
LPIM13-7	120
LPIM19	120
LPIM28-6	120
LPIM29-7	120

### LPMF

LPMF01-M10X1	118
--------------	-----

LPMF01-M10X1SS	118
LPMF02-M10X1	118
LPMF04	118
LPMF05-M10X1	118
LPMF05-M10X1Z	118
LPMF08-M10X1	118
LPMF09-M10X125	119
LPMF10	119
LPMF11	118
LPMF14	119
LPMF15	119
LPMF16	119
LPMF20	119
LPMF24	119
LPMF28	119
LPMF47Z	119
LPMF48	118
LPMF62Z	118
LPMF322-M10X1	118

### LPMM

LPMM01-M10X1	121
LPMM02-M10X1	121
LPMM03-M10X1	121
LPMM04-M10X125	121
LPMM06-M10X1	121
LPMM22Z	121

### LPS

LPS-LI-SAE	112
LPS-SD-DIN	112
LPS-SD-JIC	112
LPS-SD-SAE	112
LPS-Si-JIC	112
LPS-SI-SAE	112
LPS-T-DIN	112
LPS-T-JIC	112
LPS-T-SAE	112

### PS

PS330	124
PS331	124

### PSHF

PSHF100	129
PSHF101	129
PSHF102	129
PSHF103	129
PSHF104	129
PSHF105	129
PSHF106	127
PSHF107	129
PSHF108	128

PSHF109	129
PSHF111	129
PSHF112	129
PSHF114	127
PSHF115	126
PSHF116	126
PSHF117	126
PSHF118	127
PSHF119	127
PSHF120	128
PSHF121	127
PSHF122	127
PSHF123	128
PSHF124	127
PSHF125	128
PSHF126	128
PSHF133	129
PSHF142	127
PSHF146	128

### PSHFB

PSHFB130	126
PSHFB132	126
PSHFB133	126
PSHFB134	126
PSHFB135	126

### PSHFMM

PSHFMM131	128
-----------	-----

### T

T8-FF	133
T10-FF	133
T187-25SE	136
T187-25SS	137
T187-100SE	136
T187-100SS	137
T250-25SE	136
T250-25SS	137
T250-100SE	136
T250-100SS	137
T312-25SE	136
T312-25SS	137
T375-25SE	136
T375-25SS	137

## **Catalog Errors**

A list of errors in the print catalog can be found at <https://brakequip.com/catalog-errata.pdf>. A corrected version of the catalog is available in PDF form at <https://brakequip.com/catalog.pdf>. Newly found errors should be reported to [marketing@brakequip.com](mailto:marketing@brakequip.com), where corrections are gratefully received. Many thanks to all who contribute to the accuracy of the BrakeQuip Catalog.



BrakeQuip LLC  
865.251.9193  
sales@brakequip.com

Authorized Distributor

800-525-9085  
[www.mfcpinc.com](http://www.mfcpinc.com)

