



# ***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

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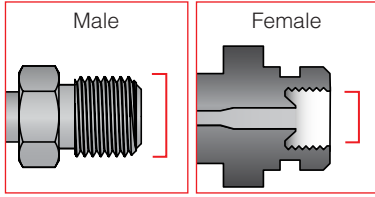
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# THREAD IDENTIFICATION

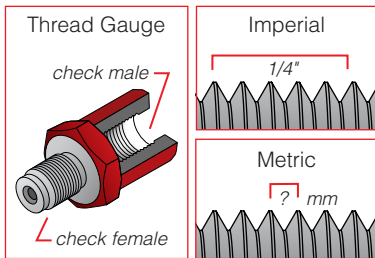
Tool: Thread ID Kit (BQ2100)



## 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

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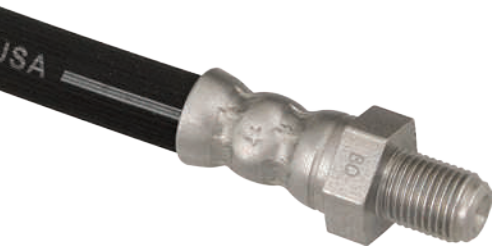
Select fittings are available in a variety of special finishes to fit your needs. To see current offerings, visit [dealer.brakequip.com](http://dealer.brakequip.com). For special order terms, contact [sales@brakequip.com](mailto:sales@brakequip.com).



## 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***

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# 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

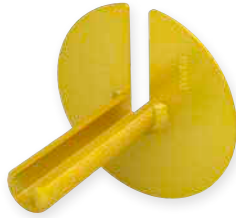
**BQ2696-R3**



# 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***

<b>Hose</b>		<b>Imperial Female</b>	
Rubber Brake Hose	14	Bolt Mount	59
Braided Brake Hose	14	Bracket Mount	62
<b>Accessories</b>		Bulkhead Mount	64
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Female Swivel	20	Spline Mount	83
Male Swivel	22	Bulkhead Mount	83
Universal	26	<b>Imperial Male</b>	
Lifesaver	27	JIC Male	84
Center Joiner	28	Bolt Mount	84
Clutch	29	Bulkhead Mount	84
Compression	29	Standard	85
<b>Block Banjo</b>		<b>Metric Male</b>	
Universal	30	Bulkhead Mount	88
8mm hole	30	Clip Mount	89
10mm hole	31	Standard	89
11mm hole	38	<b>Center Support</b>	
12mm hole	40	Bracket Mount	91
3/8" hole	40	Clip Mount	95
7/16" hole	46	<b>Brackets</b>	
<b>Round Banjo</b>		Fitting Brackets	97
8mm hole	47	Center Brackets	102
10mm hole	47	Centers with Grommet	104
11mm hole	57	11mm hole	116
12mm hole	57	7/16" hole	116
15mm hole	57		
3/8" hole	58		
7/16" hole	58		

# HOSE

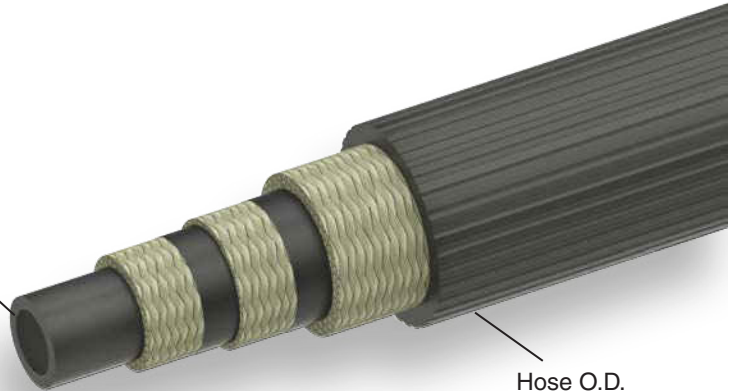
## RUBBER BRAKE HOSE

### 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.

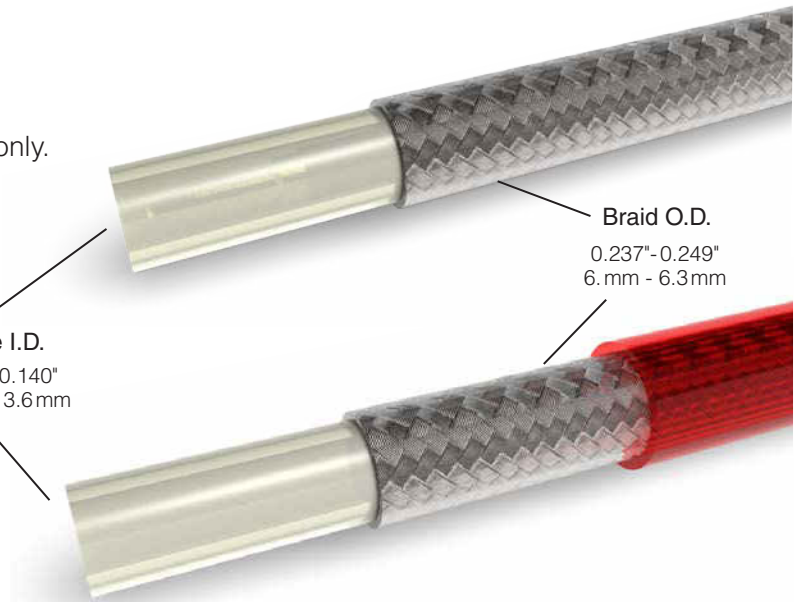
### Jacketed Braided Hose

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



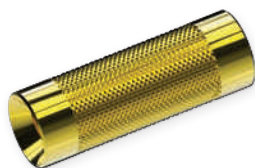
#### BQ251-BL

Color blue



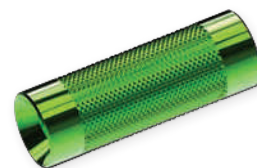
#### BQ251-GD

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 LP09W-6  
 LP chrome LP09W-6C

### HF10

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



Low profile LP10W-6  
 LP chrome LP10W-6C

### HF11

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



Stainless HF11SS  
 Low profile LP11-6, LP11W-6  
 LP chrome 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 23mm



### 7 mm Shank Banjo Lifesaver

#### HF120

Tube size 7 mm  
Overall length 27 mm



*Use with 7mm 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 8.3mm (2)  
Tube size 8mm  
Overall length 86mm



### HF38

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



### HF71

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



### HF72

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



### HF73

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



### HF74

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



### HF300

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



# 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 14mm

| 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



Low profile LPB493-10M  
 Right pair HFB494

## HFB494

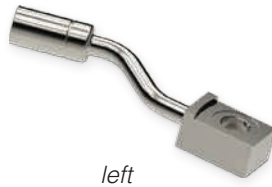
Hole 10mm  
 Thickness 1/2"  
 Width 18mm  
 Bend 90°  
 Overall length 70mm



Low profile LPB494-10M  
 Left pair HFB493

## HFB590

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



Right pair HFB591

## HFB591

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



Left pair HFB590

## HFB592

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



Right pair HFB593

## HFB593

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



Left pair HFB592

## HFB594

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



Right pair HFB595

## HFB595

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



Left pair HFB594

## HFB598

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



Right pair HFB599

## HFB599

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



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



*right*

Left pair HFB122

## HFB122

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



*left*

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



*right*

Left pair HFB246

## HFB246

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



*left*

Right pair HFB245

## HFB247

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



*left*

Right pair HFB248

## HFB248

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



*right*

Left pair HFB247

## HFB249

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



*left*

Right pair HFB250

## HFB250

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



*right*

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



### HFB403

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



## 10 MM HOLE 28 MM WIDTH

### HFB11

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



### HFB86

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



*left*

### HFB87

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



*right*

| Right pair      HFB87

| Left pair      HFB86

## 11 MM HOLE 19 MM WIDTH

### HFB54

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



### HFB59

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



### HFB66

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



### HFB72

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



# 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



Right pair HFB79

### HFB79

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



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*

### HFB69

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



*right*

| Right pair      HFB69

| Left pair        HFB68

### HFB135

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



*right*

### HFB136

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



*left*

| Left pair        HFB136

| Right pair       HFB135

### HFB140

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



*left*

### HFB141

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



*right*

| Right pair       HFB141

| 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



*left*

| Right pair      HFB210

### HFB210

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



*right*

| Left pair      HFB209

### HFB323

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



*left*

| Right pair      HFB324

### HFB324

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



*right*

| Left pair      HFB323

### HFB430

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



*right*

| Left pair      HFB431

### HFB431

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



*left*

| 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



| Right pair HFB381

## HFB381

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



| 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



| Left pair HFB624

## HFB624

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



| Right pair HFB623

## 3/8" HOLE 26 MM WIDTH

## HFB306

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



| Left pair HFB307

## HFB307

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



| Right pair HFB306

# BLOCK BANJO *CONTINUED*

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## 3/8" HOLE 28 MM WIDTH

### HFB67

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



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



| Right pair HFB359

## HFB359

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



| Left pair HFB358

## HFB366

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



## HFB530

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



## HFB544

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



## HFB545

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



| Right pair HFB546

## HFB546

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



| 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



## HFB363

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



| 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



## HFB456

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



## HFB457

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



| 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 19 MM 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 19 MM 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*

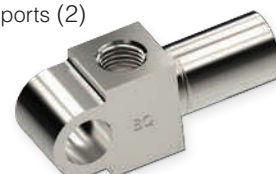
### HFIF23

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



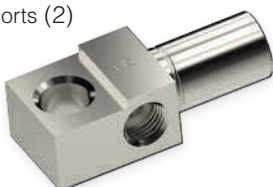
### HFIF25

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



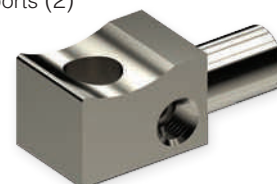
### HFIF34

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



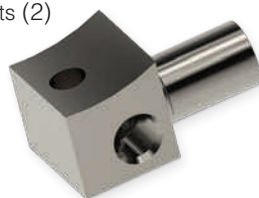
### HFIF37

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



### HFIF43

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



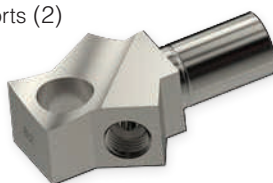
### HFIF47

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



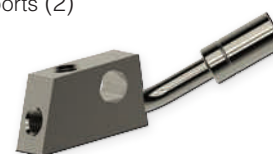
### HFIF56

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



# IMPERIAL FEMALE CONTINUED

 *Inverted seat*

## HFIF80

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



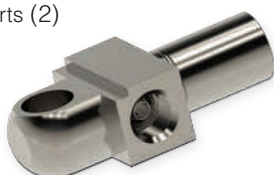
## HFIF88

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



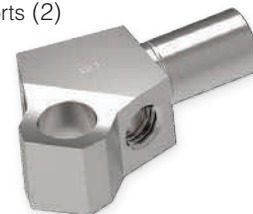
## HFIF129

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



## HFIF39

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



## HFIF48

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



# IMPERIAL FEMALE CONTINUED

## BOLT MOUNT 7/16-24 UNS

 *Inverted seat*

### HFIF46

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



### HFIF54

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



### HFIF57

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



### HFIF111

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



### HFIF157

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



## BOLT MOUNT 1/2-20 UNF

 *Inverted seat*

### HFIF77

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



# IMPERIAL FEMALE CONTINUED

## 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).*

### 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



# IMPERIAL FEMALE *CONTINUED*

 *Inverted seat*

## 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



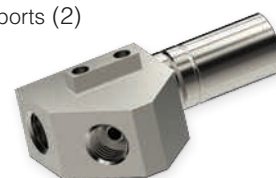
## HFIF153

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



### HFIFX05

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



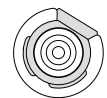
### HFIFX02

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



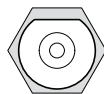
### HFIFX11

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

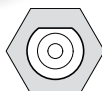
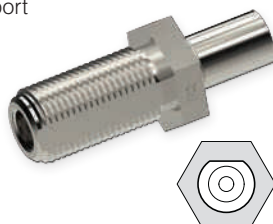
### HFIFX06

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



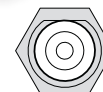
### HFIFX07

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

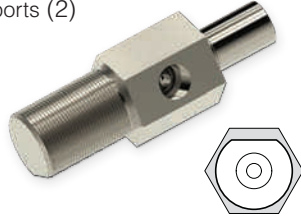


# IMPERIAL FEMALE CONTINUED

 *Inverted seat*

## HFIFX21

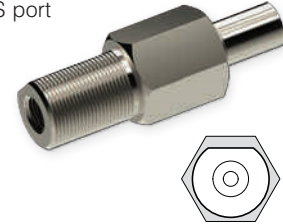
Thread	7/16-24 UNS ports (2)
Seat type	inverted
Mount thread	7/8-18 UNS
Hex	1"
Overall length	80 mm



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	19 mm
Overall length	38 mm



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	17 mm
Overall length	38 mm



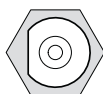
*brass*

### HFIF05

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

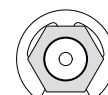


Low profile	LPIF05*
*LP stem	LPS-SI-SAE
Alternative	HFIF45



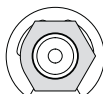
### HFIF07

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



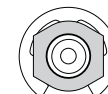
### HFIF08

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



### HFIF10

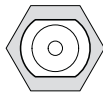
Thread	3/8-24 UNF port
Seat type	inverted
Flats	16 mm
Overall length	39 mm



Low Profile	LPIF10
*LP stem	LPS-LI-SAE

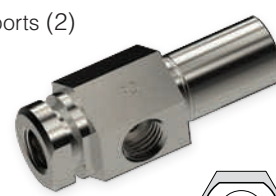
### HFIF11

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



### HFIF14

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



///*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

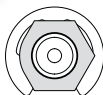
## HFIF38

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

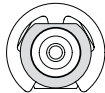


## HFIF45

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

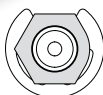


Alternative HFIF05



## 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

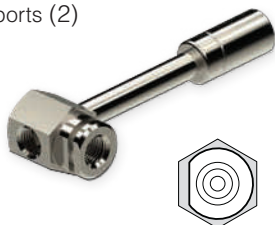


# IMPERIAL FEMALE CONTINUED

## *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



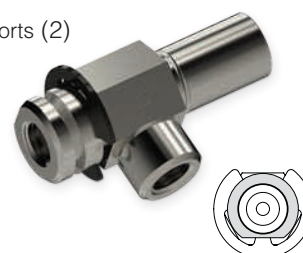
### HFIF85

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



/// 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

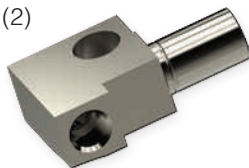


## BOLT MOUNT M11×1.5

 *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 42mm



### HFMF70

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



### HFMF90

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



### HFMF364

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



*left*

| Right pair HFMF365

### HFMF365

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



*right*

| Left pair HFMF364

### HFMF371

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



### HFMF380

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



 *Inverted seat*

### HFMF317

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



### HFMF324

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



/// 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



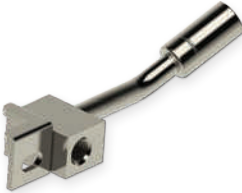
### HFMF326

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.

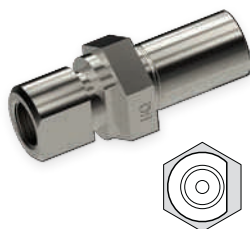
# METRIC FEMALE CONTINUED

## 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



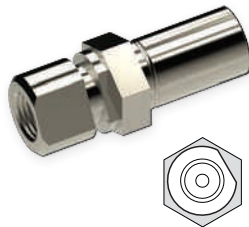
## HFMF96

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



*left*

| Right pair HFMF370

### HFMF370

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



*right*

| 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

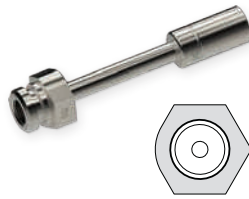
Thread M10×1 port  
 Seat type inverted  
 Flats 19mm  
 Bend 90°  
 Overall length 49mm



| 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 43mm



### HFMF132

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



### HFMF397

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



## CLIP MOUNT M12×1

 *Drill-point seat*

### HFMF47

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



| Low profile LPMF47Z

### HFMF51

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



### HFMF191

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



 *Inverted seat*

### HFMF07

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



### HFMF10

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



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

# METRIC FEMALE CONTINUED

 *Inverted seat*

## HFMF19

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



## HFMF42

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



## HFMF43

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



## HFMF91

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



## HFMF92

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



# CLIP MOUNT M12×1.25

 *Drill-point seat*

## HFMF57

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



///  
 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



## BULKHEAD MOUNT M12×1.5

### 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.

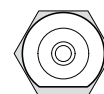
### HFMM12

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

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## 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 9mm  
Width 55mm  
Overall length 50mm



*right*

| Left pair HFC321

## HFC325

Mount hole 8.5mm  
Width 40mm  
Overall length 42mm



*right*

| Left pair HFC322

## HFC326

Mount hole 8.5mm  
Width 45mm  
Overall length 48mm



*right*

| Left pair HFC323

## HFC338

Mount hole 9mm  
Width 18mm  
Overall length 53mm



*left*

| Right pair HFC339

## HFC339

Mount hole 9mm  
Width 18mm  
Overall length 53mm



*right*

| Left pair HFC338

## HFC341

Mount hole 9mm  
Width 23mm  
Overall length 29mm



## HFC343

Mount hole 8.5mm  
Width 40mm  
Overall length 37mm



*left*

| Right pair HFC344

## HFC342

Mount hole 9mm  
Width 23mm  
Overall length 29mm



## HFC344

Mount hole 8.5mm  
Width 40mm  
Overall length 37mm



*right*

| Left pair HFC343

## HFC345

Mount hole 10mm  
Width 100mm  
Overall length 44mm



| Right pair HFC346

## HFC346

Mount hole 10mm  
Width 100mm  
Overall length 44mm



| Left pair HFC345

## HFC347

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



# 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

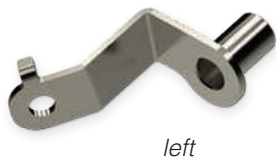


Right pair HFC352 *left*

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

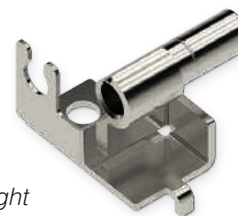
Mount hole 10 mm  
 Width 33 mm  
 Overall length 55 mm



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

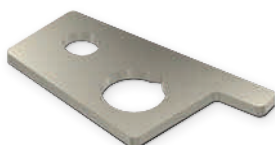
Left pair BQB317



*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

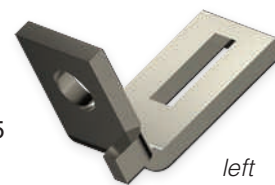


### BQB24

Mount hole 8.8mm

Right pair

BQB25

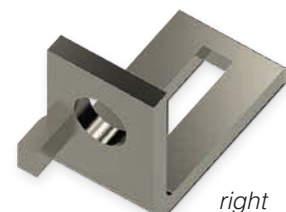


### BQB25

Mount hole 8.8mm

Left pair

BQB24



### BQB26

Mount hole 7mm



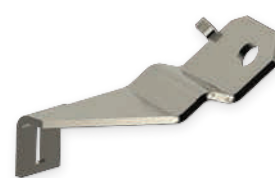
### BQB29

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



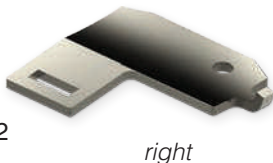
right

## BQB151

Mount hole 6.4mm

Left pair

BQB152



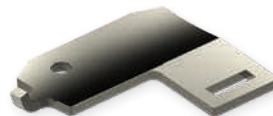
right

## 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

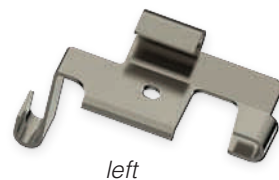
Left pair BQB09



### 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

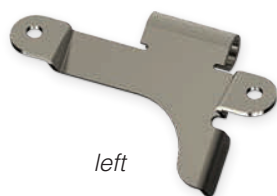


# BRACKETS *CONTINUED*

## BQB72

Mount hole 6.9mm

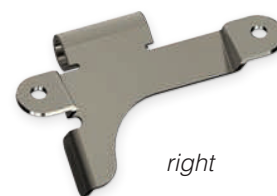
| Right pair BQB73



## BQB73

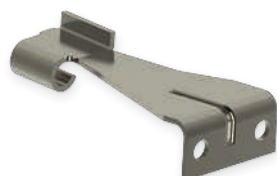
Mount hole 6.9mm

| Left pair BQB72



## BQB85

Mount hole 9.2mm



## BQB109

Mount hole 10mm × 7mm

| Right pair BQB110



## BQB110

Mount hole 10mm × 7mm

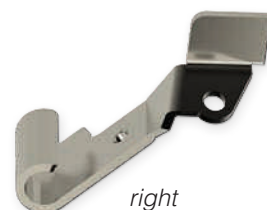
| Left pair BQB109



## BQB162

Mount hole 6.4mm / 5mm

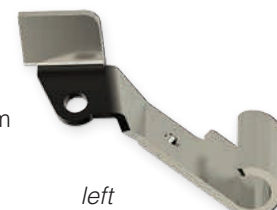
| Left pair BQB163



## 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
8 mm hole	113	<b>Center Support</b>	
10 mm hole	113	Bracket Mount	122
<b>Round Banjo</b>		Clip Mount	122
10 mm hole	114		
11 mm hole	116		
7/16" hole	116		

# HOSE

## BRAIDED BRAKE HOSE

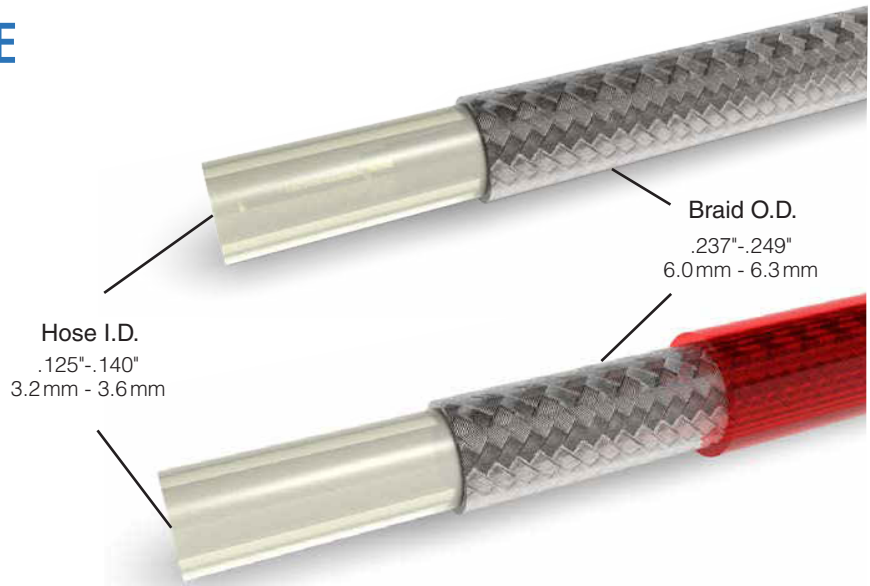
### Unjacketed Braided Hose

**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



### 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



### 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
-------------	--------



## 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



### 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



# 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

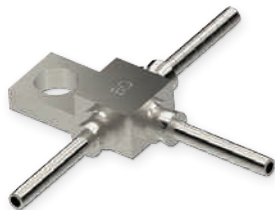


## CRIMP TEE

### 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

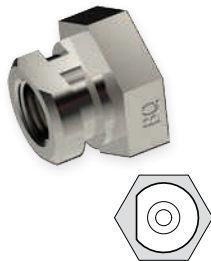
Thread 3/8-24 UNF port  
 Hex 17 mm



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

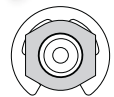
Thread M10×1 port  
Hex 17mm



| 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

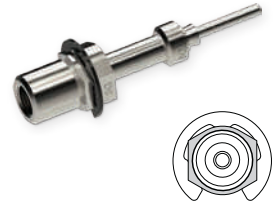
Thread M10×1 port  
Flats 17 mm



## 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

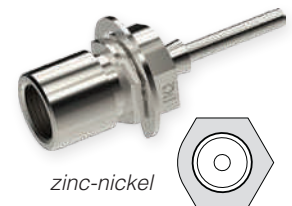
Thread M12×1 port  
Hex 19 mm



### LPMF47Z

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

Standard HFMF47



# 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 8.5mm  
 Width 20mm  
 Overall length 29mm

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 17mm  
 Hex 17mm  
 Overall length 33mm

Standard HFC01



### LPC06

Width 17mm  
 Flats 17mm  
 Overall length 34mm

Standard HFC06



### LPC07

Width 19mm  
 Flats 19mm  
 Overall length 36mm

Standard HFC07



### LPC09

Width 17mm  
 Flats 17mm  
 Overall length 34mm

Standard HFC09



### LPC12

Width 17mm  
 Flats 17mm  
 Overall length 36mm

Standard HFC12



### LPC17

Width 16mm  
 Flats 16mm  
 Overall length 37mm

Standard HFC17



### LPC301

Width 20mm  
 Overall length 33mm

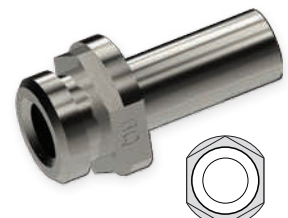
Standard HFC301A  
 LP zinc-nickel LPC301Z



### LPC331

Width 20mm  
 Flats 17mm  
 Overall length 35mm

Standard HFC331



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

# ***POWER STEERING***

## **Hose**

High-pressure Hose	124
Low-pressure Hose	124

## **Accessories**

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Bump Tube Adapters	125
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Metric Male	128
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Braze-on Lifesaver	129
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# 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

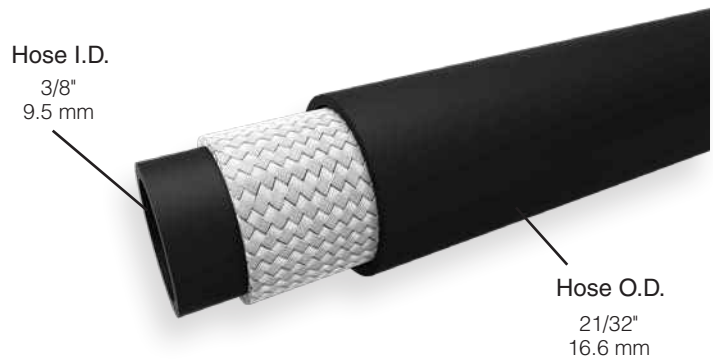


*Compatible with petroleum based power steering and transmission oils.*

## LOW PRESSURE

Low Pressure Power Steering Hose, Rubber  
PS331

Carriers	24
Wires per Carrier	2
Hose Wall	0.06" / 1.5mm
Operating Pressure	300psi
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

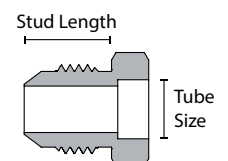


/// Bump Tube Adapter Assortment Kit, BQ7003, is on page 157.

## 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

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Tube Cutter	133
Spring Mandrels	133
Tube Support Clamps	133
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Heat Shield	133

## Fuel Line Kit

Professional Fuel Line Kit	134
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# 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	5ft

# TUBING & HARDWARE

## Tubing

EziBend 2	136
316L Stainless Steel	137

## Hose & Protectors

Hose	138
Tube Protectors	138

## Tubing Tools

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# 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.



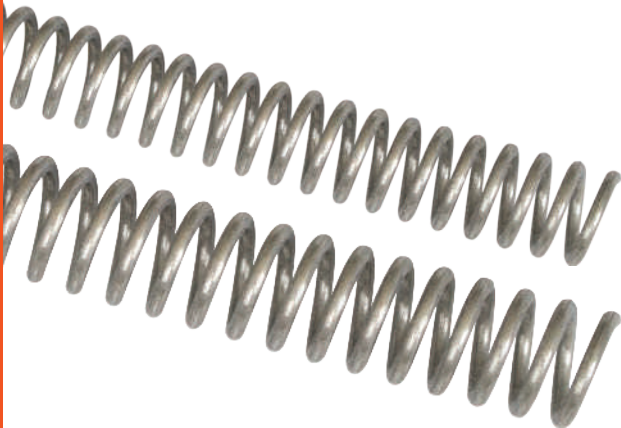
Inner Diameter	Outer Diameter	Part Number
1/4"	7/16"	BQ320
5/16"	1/2"	BQ321
3/8"	9/16"	BQ322

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

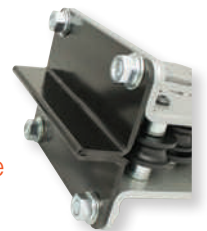


### Brake Tube Straightener

#### 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)



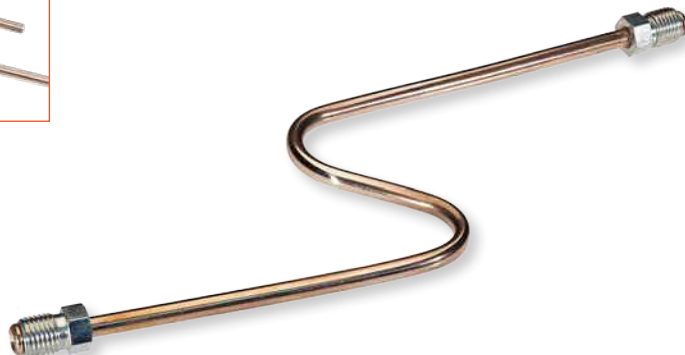
*One side of the tool end is flat to facilitate cutting.*

### 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

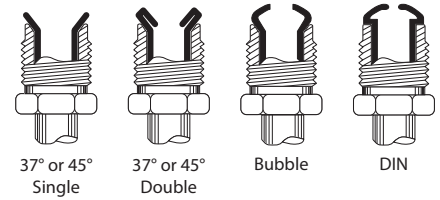


# TUBING TOOLS CONTINUED

## 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

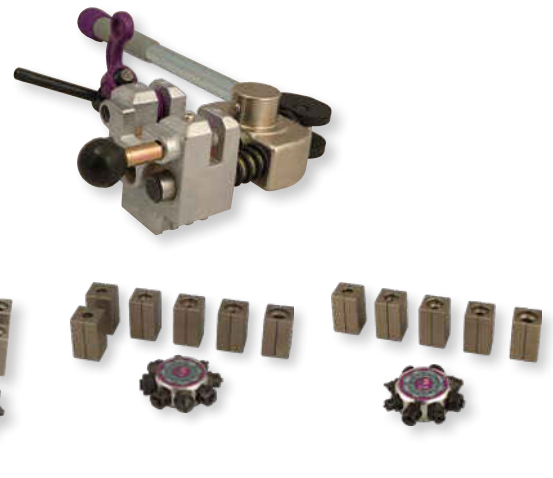


### "A" Series

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

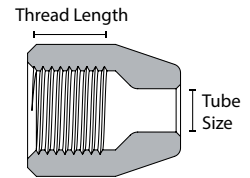
/// Full list of bleed screws and caps are on page 156.

# HARDWARE

## TUBE NUTS

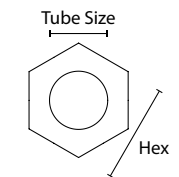
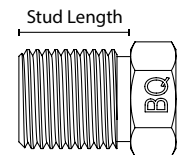
### Female Imperial

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



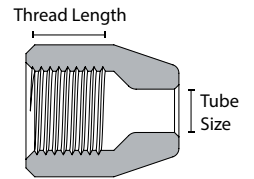
/// Copper Seat Seal (Flare Gasket) is on page 154.  
 /// Imperial Tube Nuts Assortment Kit, BQ7006, is on page 158.



# HARDWARE *CONTINUED*

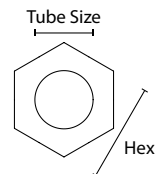
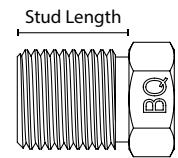
## Female Metric

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

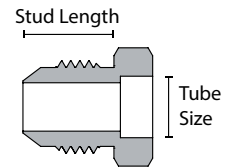
Port thread 3/8-24 UNF, inverted  
 Stud thread 3/8-24 UNF  
 Dash size -03 JIC



## 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

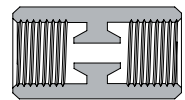
## FEMALE UNIONS

### 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



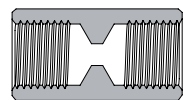
45° Inverted



### 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

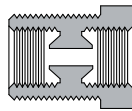
Bubble or DIN



### 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
1 1/16-18 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

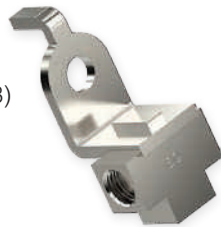
Thread	Dash Size	Diameter	Mount	Mount Hole	Thickness	Part Number
3/8-24 UNF	-03 JIC	31.75mm	Bolt	8.2mm	1/2"	BQ360
7/16-20 UNF	-04 JIC	31.75mm	Bolt	8.2mm	1/2"	BQ361



### 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

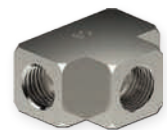
*stainless  
for Harley*



### 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

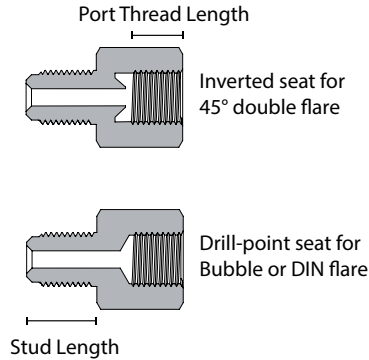


*plastic*

# 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

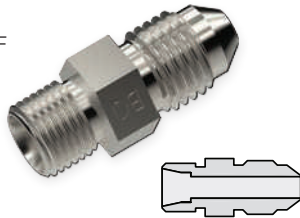


/// Male-Male Adapters Assortment Kit, BQ7010, is on page 158.

### -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



### 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.

### 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.

### 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.

### 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.

### 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.

# 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.

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## **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.



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