



CATALOG

Automotive Hose, Tubing, and Components

BrakeQuip[®]
////// INNOVATIVE SOLUTIONS FOR AUTOMOTIVE TUBES AND HOSES
Since 1998 brakequip.com

BrakeQuip

Catalog

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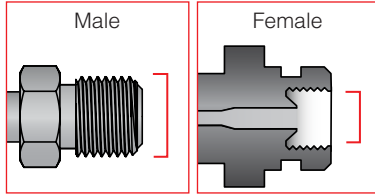
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THREAD IDENTIFICATION

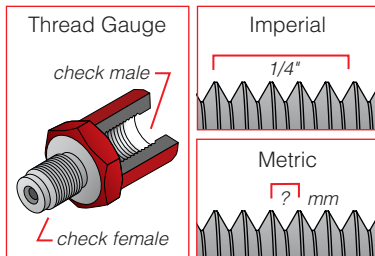
Tool: Thread ID Kit (BQ2100)



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
HF	STANDARD HOSE FITTING Fittings for both rubber & braided stainless steel hose
LP	LOW PROFILE Fittings for braided stainless steel hose
PSHF	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
	MISCELLANEOUS Swivels, lifesavers, universals, and other fittings that do not belong to another group.	HF01	LP01-3
-B	BANJO Organized by shape, then hole size and width.	HFB09	LPB09-10M
-C	CENTER SUPPORT Organized by mount type.	HFC01	LPC01
-IF	IMPERIAL FEMALE Organized by mount type, then thread and seat type.	HFIF02	LPIF02-7
-IFX	IMPERIAL FEMALE WITH EXTERNAL THREAD Organized within Imperial Female group as Bulkhead Mount.	HFIFX01	LPIFX01
-IM	IMPERIAL MALE Organized by mount type, then thread.	HFIM01	LPIM01-6
-MF	METRIC FEMALE Organized by mount type, then thread and seat type.	HFMF04	LPMF04
-MFX	METRIC FEMALE WITH EXTERNAL THREAD Organized within Metric Female group as Bulkhead Mount.	HFMFX01	
-MM	METRIC MALE Organized by mount type, then thread.	HFMM03	LPMM03-M10X1

4. Identify the fitting by fitting details

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

SPECIAL FINISHES

Select fittings are available in a variety of special finishes to fit your needs. To see current offerings, visit dealer.brakequip.com. For special order terms, contact sales@brakequip.com.



Brass

C3600 brass fittings are popular for salt water applications.

P/N suffix -B



Zinc-Nickel Plating

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

P/N suffix -Z



Stainless Steel

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

P/N suffix -SS



Anodized Aluminum

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

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



Chrome Plating

Some low profile fittings are readily available in lustrous chrome.

P/N suffix -C

EQUIPMENT

Machines

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Brake Hose Pressure Tester	8

Equipment Aids

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Machine	9
Fluids	9

Crimp Setting

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Rear Crimp-Setting	10
General Crimp-Setting	10

Testing

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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

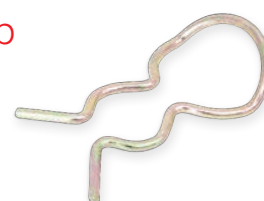


GENERAL CRIMP-SETTING

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

Hose

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Braided Brake Hose	14

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General Fittings

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

Block Banjo

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

Round Banjo

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

Imperial Female

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

Metric Female

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

Imperial Male

JIC Male	84
Bolt Mount	84
Bulkhead Mount	84
Standard	85

Metric Male

Bulkhead Mount	88
Clip Mount	89
Standard	89

Center Support

Bracket Mount	91
Clip Mount	95

Brackets

Fitting Brackets	97
Center Brackets	102
Centers with Grommet	104

HOSE

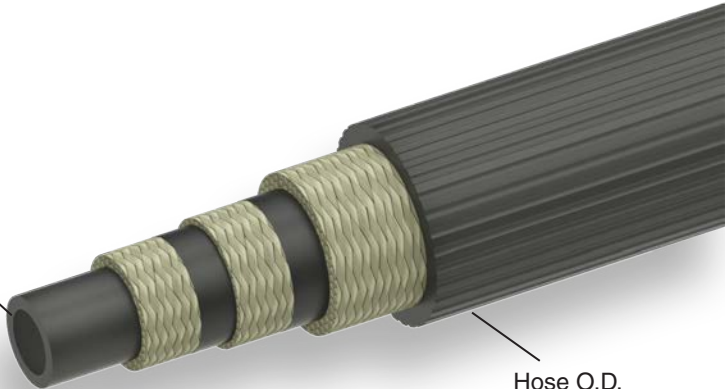
RUBBER BRAKE HOSE

Rubber Hose
BQ103, BQ105

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

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

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



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

BRAIDED BRAKE HOSE

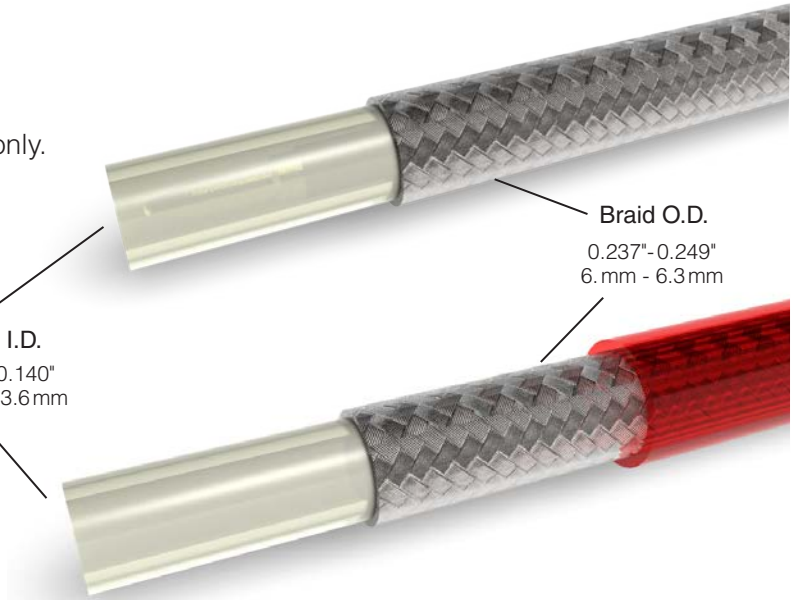
Unjacketed Braided Hose
BQ301 No jacket, for off-road use only.

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

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

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

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



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

ACCESSORIES

RUBBER HOSE ACCESSORIES

Spring Protectors

BQ202

Length 50 cm



nylon

BQ11

Length 16"
Sold in packs of 6



steel

Rubber Protectors

BQ201

Sold in 50 ft section



rubber

BQ203

Length 10.4 cm



rubber

Strain Relievers

BQ200

Sold in 10 ft section



rubber

BQ296

Length 9 cm



rubber

Heat Protection Sleeve

BQ312-BK

Sold in 10 ft 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



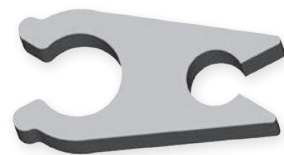
BQ97

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



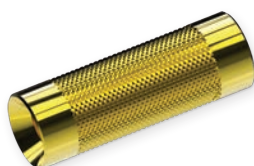
BQ251-BL

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 10 ft sections

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



BQ311

Sold in 10 ft 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 30 mm
Overall length 10 mm

Braided hose BQ210BR



BQ211

Diameter 18 mm
Overall length 25 mm

Braided hose BQ211BR



BQ212

Diameter 22 mm
Overall length 41 mm



BQ213

Diameter 30 mm
Overall length 32 mm

Braided hose BQ213BR



BQ215

Diameter 25 mm
Overall length 22 mm

Braided hose BQ215BR



BQ216

Diameter 28 mm
Overall length 32 mm



BQ217

Diameter 25.5 mm
Overall length 29 mm



BQ218

Diameter 25 mm
Overall length 16 mm

Braided hose BQ288



BQ233

Diameter 26 mm
Overall length 24 mm



BQ234

Diameter 19 mm
Overall length 34 mm

Braided hose BQ289



BQ272

Diameter 25.4 mm
Overall length 10 mm



BQ273

Diameter 26 mm
Overall length 8 mm



BQ274

Diameter 18 mm
Overall length 62 mm



BQ275

Diameter 32 mm
Overall length 24 mm

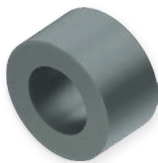


ACCESSORIES *CONTINUED*

BQ276

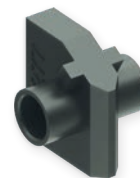
Diameter 18 mm
Overall length 10 mm

Braided hose BQ294



BQ277

Diameter 14 mm
Overall length 28 mm



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



Low profile LP chrome LP09W-6 LP09W-6C

wire-lock

HF10

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



Low profile LP chrome LP10W-6 LP10W-6C

HF11

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



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

GENERAL FITTINGS *CONTINUED*

FEMALE SWIVEL 7/16-20 UNF

HF12

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



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	56 mm



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	48 mm



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	56 mm



FEMALE SWIVEL M12×1

HF102

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



GENERAL FITTINGS CONTINUED

MALE SWIVEL 3/8-24 UNF

HF16

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



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

HF17

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



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

HF33

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



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

HF43SS

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



stainless

HF45SS

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



stainless

Low profile	LP45-6
LP chrome	LP45-6C

HF63

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



HF81

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



HF150

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



GENERAL FITTINGS *CONTINUED*

HF164Z

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



zinc-nickel

Brass HF164BT

MALE SWIVEL 7/16-24 UNS

HF04

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



HF06

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



Low profile LP06-7

HF07

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



Stainless HF07SS

HF15

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



Stainless HF15SS

HF39

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



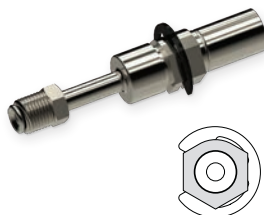
HF94

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



HF100

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



HF101

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



GENERAL FITTINGS *CONTINUED*

HF135

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



HF145

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



MALE SWIVEL 1/20-20 UNF

HF18

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



HF28

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



HF29

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



HF92

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



HF142

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



HF154

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



MALE SWIVEL 9/16-18 UNF

HF98

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



GENERAL FITTINGS *CONTINUED*

MALE SWIVEL M10×1

HF08

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



HF34

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



Low profile	LP34-M10X1
LP stainless	LP34-M10X1SS

HF82

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



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

HF99

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



HF115

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



HF116

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



HF117

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



HF158

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



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

HF310

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



HF403

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



GENERAL FITTINGS *CONTINUED*

MALE SWIVEL M12×1

HF77

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



HF137

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



HF404

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



UNIVERSAL

HF02

Tube size	3/16"
Overall length	99 mm

Low profile LP02



HF03

Tube size	1/4"
Overall length	99 mm

Low profile LP03



HF139

Tube size	1/4"
Overall length	200 mm



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

GENERAL FITTINGS CONTINUED

LIFESAVER

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

Center Support Lifesaver

HF05

Overall length 23 mm



7 mm Shank Banjo Lifesaver

HF120

Tube size 7 mm
Overall length 27 mm



Use with 7 mm shank banjo fittings.

3/16" Lifesaver

HF01

Tube size 3/16"
Overall length 27 mm

Stainless HF01SS
Low profile LP01-3



3/16" Tube-Style Lifesaver

HF155SS

Tube size 3/16"
Overall length 27 mm



stainless

1/4" Lifesaver

HF26

Tube size 1/4"
Overall length 27 mm

Low profile LP01-4



5/16" / 8mm Tube-Style Lifesaver

HF27

Tube size 5/16"
Overall length 27 mm

Low profile LP01-5



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

GENERAL FITTINGS *CONTINUED*

CENTER JOINER

HF37

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



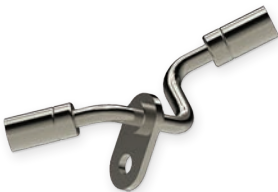
HF38

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 14 mm

Stainless HF31SS



BLOCK BANJO

10 MM HOLE UNIVERSAL

HFB22

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



7/16" HOLE UNIVERSAL

HFB23

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



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

8 MM HOLE 17 MM WIDTH

HFB112

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



10 MM HOLE 16 MM WIDTH

HFB13

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



HFB81

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



10 MM HOLE 17 MM WIDTH

HFB17

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



HFB21

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



BLOCK BANJO

CONTINUED

HFB46

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



HFB100

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



HFB144

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



HFB300

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



10MM HOLE 18MM WIDTH

HFB236

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



HFB367

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



HFB397

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



HFB474

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



| Left pair HFB475

right

HFB475

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



| Right pair HFB474

left

BLOCK BANJO

CONTINUED

HFB493

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

*left*

Low profile LPB493-10M
Right pair HFB494

HFB494

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

*right*

Low profile LPB494-10M
Left pair HFB493

HFB590

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

*left*

Right pair HFB591

HFB591

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

*right*

Left pair HFB590

HFB592

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

*left*

Right pair HFB593

HFB593

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

*right*

Left pair HFB592

HFB594

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

*left*

Right pair HFB595

HFB595

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

*right*

Left pair HFB594

HFB598

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

*left*

Right pair HFB599

HFB599

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

*right*

Left pair HFB598

BLOCK BANJO *CONTINUED*

10 MM HOLE 19 MM WIDTH

HFB16

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



HFB40

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



HFB45

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



HFB49

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



HFB113

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

Left pair HFB114



right

HFB114

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

Right pair HFB113



left

HFB180

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



HFB187

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



HFB251

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



HFB256

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



BLOCK BANJO *CONTINUED*

HFB310

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



10 MM HOLE 20 MM WIDTH

HFB12

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



Low profile LPB12-10M

HFB14

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



Low profile LPB14

HFB41

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



HFB91

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



HFB107

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



right

Left pair HFB108

HFB108

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



left

Right pair HFB107

HFB119

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



right

Left pair HFB120

HFB120

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



left

Right pair HFB119

BLOCK BANJO

CONTINUED

HFB161

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



HFB259

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

*left*

| Right pair HFB260

HFB260

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

*right*

| Left pair HFB259

HFB267

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



HFB450

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

*right*

| Left pair HFB451

HFB451

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

*left*

| Right pair HFB450

10 MM HOLE 22 MM WIDTH

HFB51

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



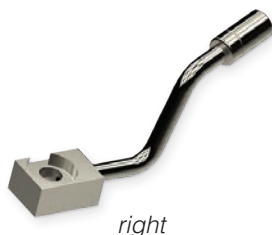
BLOCK BANJO

CONTINUED

HFB121

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

Left pair HFB122



right

HFB122

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

Right pair HFB121



left

HFB173

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



HFB239

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



HFB240

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



HFB242

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



HFB245

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

Left pair HFB246



right

HFB246

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

Right pair HFB245



left

HFB247

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

Right pair HFB248



left

HFB248

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

Left pair HFB247



right

HFB249

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

Right pair HFB250



left

HFB250

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

Left pair HFB249



right

BLOCK BANJO

CONTINUED

HFB284

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

Right pair HFB285

*left*

HFB285

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

Left pair HFB284

*right*

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

*right*

HFB329

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

Right pair HFB328

*left*

HFB410

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

Right pair HFB411

*left*

HFB411

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

Left pair HFB410

*right*

10 MM HOLE 25 MM WIDTH

HFB597

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



BLOCK BANJO *CONTINUED*

10 MM HOLE 26 MM WIDTH

HFB56

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



HFB403

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



10 MM HOLE 28 MM WIDTH

HFB11

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



HFB86

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



Right pair HFB87

left

HFB87

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



Left pair HFB86

right

11 MM HOLE 19 MM WIDTH

HFB54

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



HFB59

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



HFB66

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



HFB72

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



BLOCK BANJO *CONTINUED*

11 MM HOLE 20 MM WIDTH

HFB60

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



11 MM HOLE 22 MM WIDTH

HFB61

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



HFB78

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



| Right pair HFB79

left

HFB79

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



| Left pair HFB78

right

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



HFB145

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



HFB379

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



12 MM HOLE 22 MM WIDTH

HFB312

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



3/8" HOLE 19 MM WIDTH

HFB39

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



HFB77

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



HFB90

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



BLOCK BANJO *CONTINUED*

3/8" HOLE 20 MM WIDTH

HFB243

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



HFB283

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



3/8" HOLE 22 MM WIDTH

HFB58

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



HFB68

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



left

| Right pair HFB69

HFB69

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



right

| Left pair HFB68

HFB135

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



right

| Left pair HFB136

HFB136

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



left

| Right pair HFB135

HFB140

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



left

| Right pair HFB141

HFB141

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



right

| Left pair HFB140

BLOCK BANJO *CONTINUED*

HFB230

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

*right*

| Left pair HFB231

HFB231

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

*left*

| Right pair HFB230

HFB277

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

*right*

| Left pair HFB278

HFB278

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

*left*

| Right pair HFB277

HFB315

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

*left*

| Right pair HFB316

HFB316

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

*right*

| Left pair HFB315

HFB386

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

*left*

| Right pair HFB387

HFB387

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

*right*

| Left pair HFB386

HFB418

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

*left*

| Right pair HFB419

HFB419

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

*right*

| Left pair HFB418

BLOCK BANJO CONTINUED

3/8" HOLE 23 MM WIDTH

HFB193

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



HFB209

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



| Right pair HFB210

HFB210

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



| Left pair HFB209

HFB323

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



| Right pair HFB324

HFB324

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



| Left pair HFB323

HFB430

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



| Left pair HFB431

HFB431

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



| Right pair HFB430

3/8" HOLE 24 MM WIDTH

HFB322

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



BLOCK BANJO *CONTINUED*

3/8" HOLE 25 MM WIDTH

HFB131

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

| Left pair HFB132



right

HFB132

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

| Right pair HFB131



left

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



right

HFB156

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

| Right pair HFB155



left

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



left

HFB222

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

| Left pair HFB221



right

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*

3/8" HOLE 28 MM WIDTH

HFB67

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



7/16" HOLE 22 MM WIDTH

HFB276

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



7/16" HOLE 32 MM WIDTH

HFB165

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



| Right pair HFB166

HFB166

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



| Left pair HFB165

ROUND BANJO

8 MM HOLE 14 MM WIDTH

HFB27

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



bendable to 45°

Low profile LPB27-8M

8 MM HOLE 21 MM WIDTH

HFB111

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



10 MM HOLE 17 MM WIDTH

HFB01

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



bendable to 45°

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

HFB03

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



bendable to 45°

HFB05

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



bendable to 45°

HFB29

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



HFB32

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



Low profile LPB01-90-10M

HFB33

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



ROUND BANJO *CONTINUED*

HFB34

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

| Stainless

HFB34SS



bendable to 90°

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

| Right pair

HFB73



bendable to 45°

HFB73

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

| Left pair

HFB50



bendable to 45°

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

| Left pair

HFB343



right

HFB343

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

| Right pair

HFB342



left

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

| Right pair HFB548



left

HFB548

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

| Left pair HFB547



right

HFB551

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

| Right pair HFB552



left

HFB552

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

| Left pair HFB551



right

HFB553

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

| Right pair HFB554



left

HFB554

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

| Left pair HFB553



right

HFB555

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

| Right pair HFB556



left

HFB556

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

| Left pair HFB555



right

HFB557

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



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
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HFB92

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



left

Right pair	HFB93
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HFB93

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



right

Left pair	HFB92
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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

| Right pair HFB349



HFB349

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

| Left pair HFB348



HFB351

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

| Right pair HFB352



HFB352

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

| Left pair HFB351



HFB353

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

| Left pair HFB354



HFB354

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

| Right pair HFB353



ROUND BANJO *CONTINUED*

HFB357

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



HFB362

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



left

| Right pair HFB363

HFB363

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



right

| Left pair HFB362

HFB364

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



HFB373

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



HFB375

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



bendable to 45°

HFB456

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



right

| Left pair HFB457

HFB457

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



left

| 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

*left*

| Right pair HFB540

HFB540

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

*right*

| Left pair HFB539

HFB541

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

*left*

| Right pair HFB542

HFB542

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

*right*

| Left pair HFB541

HFB573

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

*left*

| Right pair HFB574

HFB574

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

*right*

| Left pair HFB573

10 MM HOLE 19 MM WIDTH

HFB10

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



*1/8-27 NPT port,
for Harley*

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

Right pair HFB106



left

HFB106

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

Left pair HFB105



right

7/16" HOLE 19 MM WIDTH

HFB448

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

Low profile LPB448-7
LP stainless LPB448-7SS



bendable to 90°

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

Low profile LPB652



side bend

IMPERIAL FEMALE

BOLT MOUNT 3/8-24 UNF

 *Inverted seat*

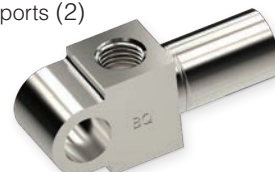
HFIF23

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



HFIF25

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



HFIF34

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



HFIF37

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



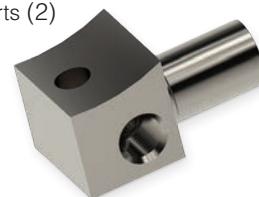
HFIF39

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



HFIF43

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



HFIF47

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



HFIF53

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



HFIF55

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



IMPERIAL FEMALE *CONTINUED*



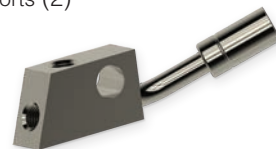
HFIF56

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



HFIF66

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



HFIF80

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



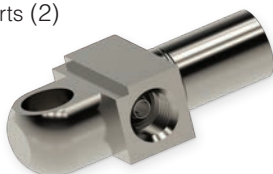
HFIF88

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



HFIF94

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



HFIF110

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



HFIF129

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



HFIF180

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



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



HFIF28

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



HFIF31

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



IMPERIAL FEMALE CONTINUED



Inverted seat

HFIF48

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



BOLT MOUNT 7/16-24 UNS



Inverted seat

HFIF46

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



HFIF54

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



HFIF57

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



HFIF111

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



HFIF157

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



IMPERIAL FEMALE CONTINUED

BOLT MOUNT 1/2-20 UNF



Inverted seat

HFIF77

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



BRACKET MOUNT 3/8-24 UNF



Inverted seat

HFIF15

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



HFIF22

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



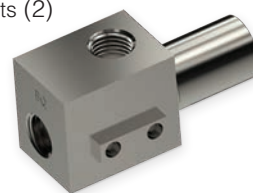
HFIF60A

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



HFIF70

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



HFIF90

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



HFIF99

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



HFIF120

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



HFIF146

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



Use with wire brackets (such as BQB415).

IMPERIAL FEMALE *CONTINUED*



HFIF147

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



HFIF148

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



HFIF149

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



HFIF152

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



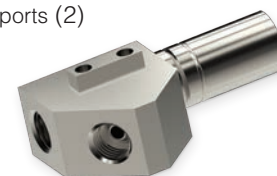
HFIF153

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



HFIF304

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



BRACKET MOUNT 7/16-24 UNS



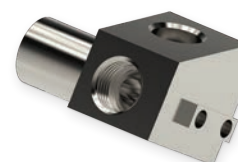
HFIF52

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



HFIF109

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



HFIF138

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



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

IMPERIAL FEMALE CONTINUED

BULKHEAD MOUNT 1/8-27 NPT

HFIFX20

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



BULKHEAD MOUNT 3/8-20 BSF

HFIFX03

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



BULKHEAD MOUNT 3/8-24 UNF



Drill-point seat

HFIFX05

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



Inverted seat

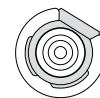
HFIFX02

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



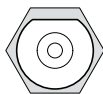
HFIFX11

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



HFIFX14

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



HFIFX15

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



/// Bulkhead nuts are on page 148.

IMPERIAL FEMALE CONTINUED

BULKHEAD MOUNT 7/16-20 UNF

 *Inverted seat*

HFIFX04

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



BULKHEAD MOUNT 7/16-24 UNS

 *Inverted seat*

HFIFX01

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



Low profile
*LP stem

LPIFX01 *
LPS-LI-SAE

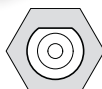
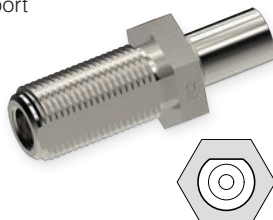
HFIFX06

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



HFIFX07

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



HFIFX12

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



HFIFX16

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



HFIFX19

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

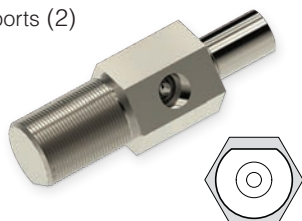


IMPERIAL FEMALE CONTINUED



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



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



HFIF21

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



IMPERIAL FEMALE CONTINUED



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



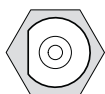
brass

HFIF05

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

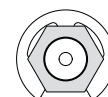


Low profile	LPIF05 *
*LP stem	LPS-SI-SAE
Alternative	HFIF45



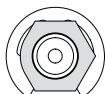
HFIF07

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



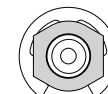
HFIF08

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



HFIF10

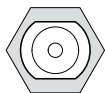
Thread	3/8-24 UNF port
Seat type	inverted
Flats	16 mm
Overall length	39 mm



Low Profile	LPIF10
*LP stem	LPS-LI-SAE

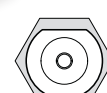
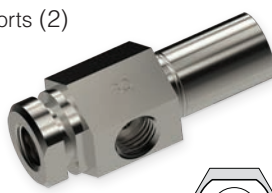
HFIF11

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

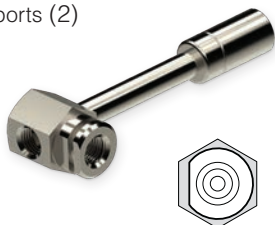


IMPERIAL FEMALE CONTINUED



HFIF74

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



HFIF83

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



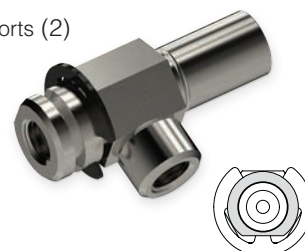
HFIF85

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



HFIF87

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



HFIF103

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



HFIF106

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



HFIF140

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



HFIF143

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



HFIF301

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



HFIF334B

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



brass

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

IMPERIAL FEMALE CONTINUED

CLIP MOUNT 7/16-20 UNF

 *Inverted seat*

HFIF141

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



HFIF172

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



CLIP MOUNT 7/16-24 UNS

 *Inverted seat*

HFIF02

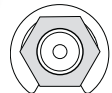
Thread	7/16-24 UNS port
Seat type	inverted
Hex	19mm
Overall length	38mm



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

HFIF09

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



HFIF20

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



HFIF24

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



Alternative HFIF02

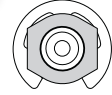
HFIF33

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



HFIF35

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



IMPERIAL FEMALE CONTINUED

 *Inverted seat*

HFIF51

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



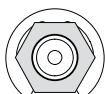
HFIF73

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



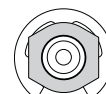
HFIF116

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



HFIF142

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



CLIP MOUNT 1/2-20 UNF

 *Inverted seat*

HFIF79

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



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

STANDARD 1/2-20 UNF

 *Drill-point seat*

HFIF03

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



 *Inverted seat*

HFIF06

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



METRIC FEMALE

BOLT MOUNT M10×1

 *Drill-point seat*

HFMF50

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



HFMF328

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



 *Inverted seat*

HFMF18

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



HFMF48

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



| Low profile LPMF48

HFMF69

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

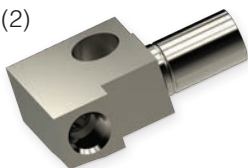


BOLT MOUNT M11×1.5

 *Inverted seat*

HFMF79

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



METRIC FEMALE CONTINUED

BRACKET MOUNT M10×1

 *Drill-point seat*

HFMF40

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



HFMF70

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



HFMF90

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



HFMF364

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



left

| Right pair HFMF365

HFMF365

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



right

| Left pair HFMF364

HFMF371

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



HFMF380

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



 *Inverted seat*

HFMF317

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



HFMF324

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



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

METRIC FEMALE *CONTINUED*



HFMF325

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



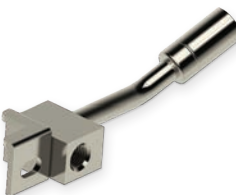
HFMF326

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



HFMF342

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



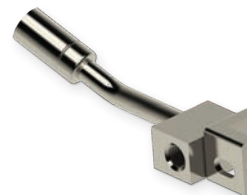
Right pair

HFMF343

left

HFMF343

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



Left pair

HFMF342

right

BRACKET MOUNT M10×1.5



HFMF396

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



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



HFMF12

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



/// 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
LP zinc-nickel
*LP stem

LPMF05-M10X1*
LPMF05-M10X1Z*
LPS-SD-DIN

HFMF08

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



Low profile
*LP stem

LPMF08-M10X1*
LPS-SD-DIN

HFMF24

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



Low profile
*LP stem

LPMF24*
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
 LP stainless
 *LP stem

LPMF01-M10X1*
 LPMF01-M10X1SS*
 LPS-SI-SAE

HFMF02

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

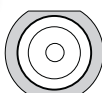


Low profile
 *LP stem

LPMF02-M10X1*
 LPS-LI-SAE

HFMF04

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



Stainless
 Low profile
 *LP stem

HFMF04SS
 LPMF04*
 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



HFMF11

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

Low profile
*LP stem

LPMF11*
LPS-SI-SAE



HFMF14

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

Low profile
*LP stem

LPMF14*
LPS-SI-SAE



HFMF15

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

Low profile

LPMF15



HFMF16

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

Low profile
*LP stem

LPMF16*
LPS-SI-SAE



HFMF20

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

Low profile
*LP stem

LPMF20*
LPS-SI-SAE



HFMF26

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



HFMF28

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

Low profile
*LP stem

LPMF28*
LPS-SI-SAE



HFMF29

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



HFMF31

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



HFMF93

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



METRIC FEMALE CONTINUED

Inverted seat

HFMF120

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



Left pair HFMF121

HFMF121

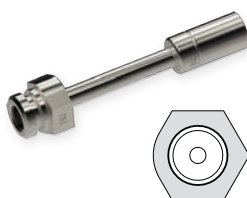
Thread	M10×1 port
Seat type	inverted
Flats	19mm
Bend	90°
Overall length	49mm



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
*LP stem

LPMF10*
LPS-LI-SAE

METRIC FEMALE *CONTINUED*

Inverted seat

HFMF19

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



HFMF42

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



HFMF43

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



HFMF91

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



HFMF92

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



CLIP MOUNT M12×1.25

Drill-point seat

HFMF57

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



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

METRIC FEMALE CONTINUED

SPLINE MOUNT M10×1

 *Drill-point seat*

HFMF22

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



HFMF27

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



BULKHEAD MOUNT M10×1

 *Drill-point seat*

HFMFX04

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



HFMFX04-M16

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



 *Inverted seat*

HFMFX01

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



BULKHEAD MOUNT M10×1.25

 *Inverted seat*

HFMFX02

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



BULKHEAD MOUNT M12×1

 *Drill-point seat*

HFMFX10

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



/// Bulkhead nuts are on page 148.

IMPERIAL MALE

JIC MALE 3/8-24 UNF

HFIM28

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



Low profile LPIM28-6

JIC MALE 7/16-20 UNF

HFIM29

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



Low profile LPIM29-7

BOLT MOUNT 1/8-27 NPT

HFIM30

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



BULKHEAD MOUNT 3/8-24 UNF

HFIM02

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



Low profile LPIM02-6
LP stainless LPIM02-6SS

HFIM05

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



HFIM12

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



/// Bulkhead nuts are on page 148.

IMPERIAL MALE CONTINUED

BULKHEAD 7/16-20 UNF

HFIM06

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



BULKHEAD 1/2-20 UNF

HFIM07

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



CLIP MOUNT 7/16-20 UNF

HFIM22

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



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

STANDARD 1/8-27 NPT

HFIM19

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



Stainless	HFIM19SS
Low profile	LPIM19

STANDARD 1/8-28 BSPP

HFIM32

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



STANDARD 3/8-20 BSF

HFIM15

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



IMPERIAL MALE CONTINUED

STANDARD 3/8-24 UNF

HFIM01

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



Brass	HFIM01B
Stainless	HFIM01SS
Low profile	LPIM01-6

HFIM01B

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



brass

HFIM10

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



HFIM11

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



HFIM18

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



HFIM21

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



HFIM25

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



HFIM35

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



HFIM36

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



STANDARD 7/16-20 UNF

HFIM03

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



Stainless	HFIM03SS
Low profile	LPIM03-7

HFIM09

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



IMPERIAL MALE *CONTINUED*

HFIM16

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



HFIM27

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



HFIM40

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



STANDARD 7/16-24 UNS

HFIM13

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



Low profile LPIM13-7

HFIM14

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



STANDARD 1/2-20 UNF

HFIM08

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



HFIM24

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



STANDARD 11/16-16 UN

HFIM04

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



METRIC MALE

BULKHEAD MOUNT M10×1

HFMM02

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



Low profile

LPMM02-M10X1

HFMM18

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



HFMM20

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



BULKHEAD MOUNT M10×1.25

HFMM11

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



HFMM21

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



BULKHEAD MOUNT M12×1

HFMM09

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



HFMM10

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



/// Bulkhead nuts are on page 148.

METRIC MALE CONTINUED

CLIP MOUNT M10×1

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

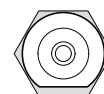
HFMM12

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



HFMM303

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



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

STANDARD M10×1

HFMM01

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



Low profile LPMM01-M10X1

HFMM03

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



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

HFMM06

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



Stainless HFMM06SS
Low profile LPMM06-M10X1

HFMM08

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



HFMM22

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



LP zinc-nickel LPMM22Z

HFMM23

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



METRIC MALE *CONTINUED*

STANDARD M10×1.25

HFMM04

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



| Low profile LPMM04-M10X125

STANDARD M10×1.5

HFMM24

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



STANDARD M12×1

HFMM05

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



HFMM13

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



STANDARD M12×1.25

HFMM17

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



CENTER SUPPORT

BRACKET MOUNT

HFC04

Mount hole 6.5 mm
Width 39 mm
Overall length 30 mm



HFC05

Mount hole 8.5 mm
Width 20 mm
Overall length 30 mm

Low profile LPC05



HFC18

Mount hole 8.7 mm
Width 24 mm
Overall length 48 mm



HFC19

Mount hole 8.7 mm
Width 24 mm
Overall length 48 mm



HFC316

Mount hole 10 mm
Width 22 mm
Overall length 36 mm



HFC319

Mount hole 9 mm
Width 45 mm
Overall length 50 mm

Right pair HFC320



left

HFC320

Mount hole 9 mm
Width 45 mm
Overall length 50 mm

Left pair HFC319



right

HFC321

Mount hole 9 mm
Width 55 mm
Overall length 50 mm

Right pair HFC324



left

HFC322

Mount hole 8.5 mm
Width 40 mm
Overall length 42 mm

Right pair HFC325



left

HFC323

Mount hole 8.5 mm
Width 45 mm
Overall length 48 mm

Right pair HFC326



left

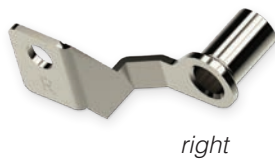
CENTER SUPPORT CONTINUED

HFC324

Mount hole 9mm
Width 55mm
Overall length 50mm

Left pair

HFC321



right

HFC325

Mount hole 8.5mm
Width 40mm
Overall length 42mm

Left pair

HFC322



right

HFC326

Mount hole 8.5mm
Width 45mm
Overall length 48mm

Left pair

HFC323



right

HFC338

Mount hole 9mm
Width 18mm
Overall length 53mm

Right pair

HFC339



left

HFC339

Mount hole 9mm
Width 18mm
Overall length 53mm

Left pair

HFC338



right

HFC341

Mount hole 9mm
Width 23mm
Overall length 29mm



HFC342

Mount hole 9mm
Width 23mm
Overall length 29mm



HFC343

Mount hole 8.5mm
Width 40mm
Overall length 37mm

Right pair

HFC344



left

HFC344

Mount hole 8.5mm
Width 40mm
Overall length 37mm

Left pair

HFC343



right

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 × 1
Width 20mm
Overall length 25mm



CENTER SUPPORT CONTINUED

HFC348

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



HFC350

Mount hole 9 mm
Width 67 mm
Overall length 25 mm



HFC351

Mount hole 9.5 mm
Width 90 mm
Overall length 24 mm



Right pair HFC352

left

HFC352

Mount hole 9.5 mm
Width 90 mm
Overall length 24 mm



Left pair HFC351

right

HFC353

Mount hole 8.5 mm
Width 24 mm
Overall length 73 mm



Right pair HFC354

left

HFC354

Mount hole 8.5 mm
Width 24 mm
Overall length 73 mm



Left pair HFC353

right

HFC355

Mount hole 10 mm
Width 20 mm
Overall length 40 mm



Right pair HFC356

left

HFC356

Mount hole 10 mm
Width 20 mm
Overall length 40 mm



Left pair HFC355

right

HFC357

Mount hole 10 mm
Width 88 mm
Overall length 50 mm



Right pair HFC358

left

HFC358

Mount hole 10 mm
Width 88 mm
Overall length 50 mm



Left pair HFC357

right

HFC359

Mount hole 9 mm
Width 25 mm
Overall length 60 mm



Right pair HFC360

left

HFC360

Mount hole 9 mm
Width 20 mm
Overall length 25 mm



Left pair HFC359

right

CENTER SUPPORT CONTINUED

HFC361

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

Right pair

HFC362



left

HFC362

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

Left pair

HFC361



right

HFC365

Mount hole 9 mm
Width 35 mm
Overall length 42 mm

Right pair

HFC366



left

HFC366

Mount hole 9 mm
Width 35 mm
Overall length 42 mm

Left pair

HFC365



right

HFC367

Mount hole 10 mm
Width 40 mm
Overall length 42 mm

Right pair

HFC368



left

HFC368

Mount hole 10 mm
Width 40 mm
Overall length 42 mm

Left pair

HFC367



right

HFC369

Mount hole 7 mm
Width 30 mm
Overall length 58 mm

Right pair

HFC370



left

HFC370

Mount hole 7 mm
Width 30 mm
Overall length 58 mm

Left pair

HFC369



right

HFC371

Mount hole 10 mm
Width 33 mm
Overall length 55 mm

Right pair

HFC372



left

HFC372

Mount hole 10 mm
Width 33 mm
Overall length 55 mm

Left pair

HFC371 right



HFC373

Mount hole 8 mm
Width 45 mm
Overall length 75 mm

Right pair

HFC374



left

HFC374

Mount hole 8 mm
Width 45 mm
Overall length 75 mm

Left pair

HFC373



right

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



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



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



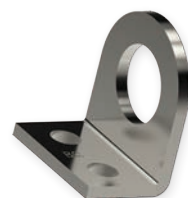
BQB06

Mount hole 5mm



BQB244

Mount hole 6.8mm



BQB259

Mount hole 8.8mm
Hex hole 16mm



BQB315

Mount hole 10mm
| Right pair BQB316



BQB316

Mount hole 10mm
| Left pair BQB315



BQB317

Mount hole 9mm
| Right pair BQB318



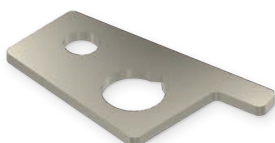
BQB318

Mount hole 9mm
| Left pair BQB317



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

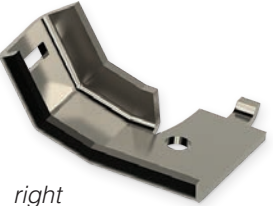


BQB15

Mount hole 8.6mm

Left pair

BQB14



BQB20

Mount hole 9mm

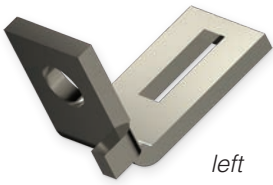


BQB24

Mount hole 8.8mm

Right pair

BQB25

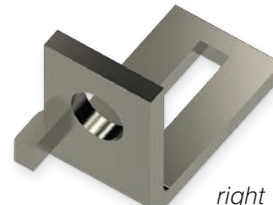


BQB25

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



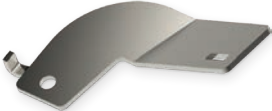
BQB90

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



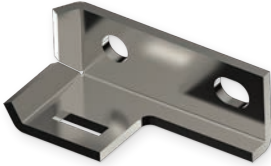
BQB112

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



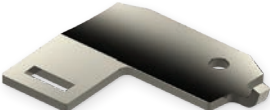
BQB151

Mount hole 6.4mm

Left pair

BQB152

right



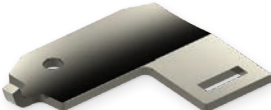
BQB152

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

**BQB186**

Mount hole 16.3mm

Right pair

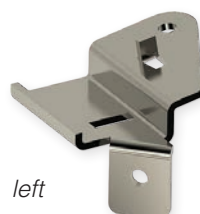
BQB185

**BQB312**

Mount hole 6.3mm

Right pair

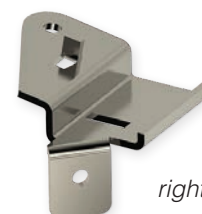
BQB313

**BQB313**

Mount hole 6.3mm

Left pair

BQB312

**BQB336**

Mount hole 7.5mm

Right pair

BQB337

**BQB337**

Mount hole 7.5mm

Left pair

BQB336

**BQB338**

Mount hole 10mm

Right pair

BQB339

**BQB339**

Mount hole 10mm

Left pair

BQB338

**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



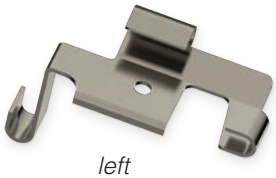
right

BQB09

Mount hole 8.8mm

| Right pair

BQB08



left

BQB18

Mount hole 8.9mm

| Right pair

BQB19



left

BQB19

Mount hole 8.9mm

| Left pair

BQB18



right

BQB23

Mount hole 8.8mm



BQB35

Mount nut M6 × 1



BQB36

Mount hole 8.4mm

| Right pair

BQB37



left

BQB37

Mount hole 8.4mm

| Left pair

BQB36



right

BQB38

Mount thread 5/16-18 UNF



BQB48

Mount hole 6.4mm



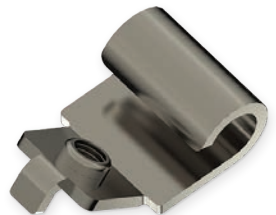
BQB52

Mount hole 9.2mm



BQB69

Mount nut M8 × 1.25



BRACKETS

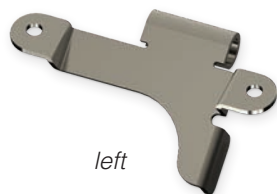
CONTINUED

BQB72

Mount hole 6.9mm

Right pair

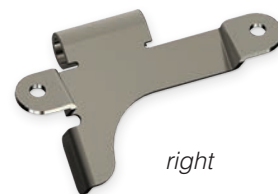
BQB73

*left***BQB73**

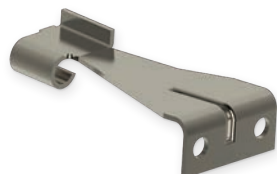
Mount hole 6.9mm

Left pair

BQB72

*right***BQB85**

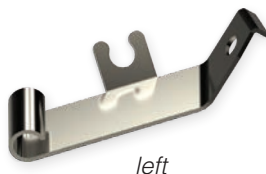
Mount hole 9.2mm

**BQB109**

Mount hole 10mm × 7mm

Right pair

BQB110

*left***BQB110**

Mount hole 10mm × 7mm

Left pair

BQB109

*right***BQB162**

Mount hole 6.4mm / 5mm

Left pair

BQB163

*right***BQB163**

Mount hole 6.4mm / 5mm

Right pair

BQB162

*left***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

*right***BQB285**

Mount hole 7mm / 6.2mm

Right pair

BQB284

*left*

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

Hose

Braided Brake Hose 106

Tools

Braided Hose Shears 106

Skiving Tool 106

General Fittings

Crimp Shell 107

Female Swivel 107

Male Swivel 108

Crimp Tee 110

Lifesaver 111

Universal 111

Clutch 111

Stems 112

Block Banjo

8mm hole 113

10mm hole 113

Round Banjo

10mm hole 114

11mm hole 116

7/16" hole 116

Imperial Female

Standard Mount 117

Clip Mount 117

Bulkhead Mount 117

Metric Female

Standard Mount 118

Bolt Mount 118

Clip Mount 118

Imperial Male

JIC Male 120

Bulkhead Mount 120

Standard Mount 120

Metric Male

Bulkhead Mount 121

Standard Mount 121

Center Support

Bracket Mount 122

Clip Mount 122

HOSE

BRAIDED BRAKE HOSE

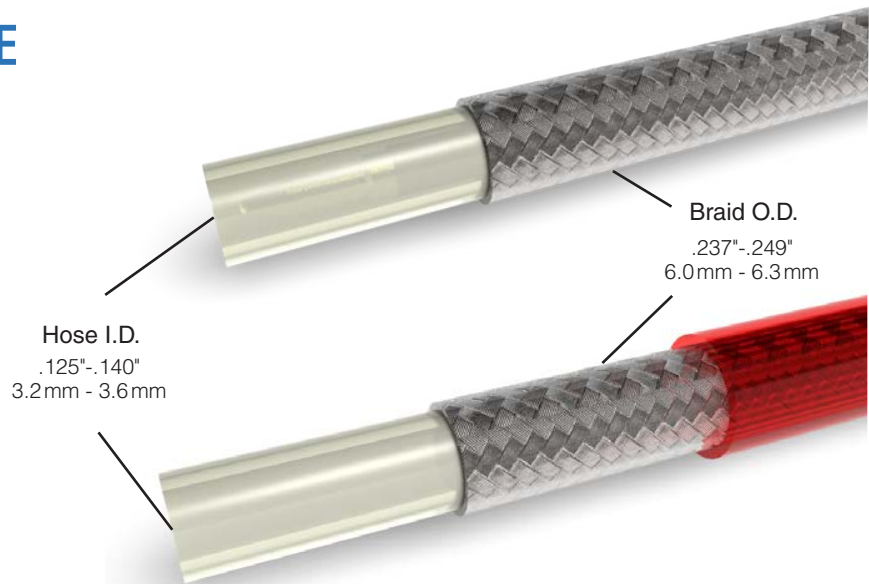
Unjacketed Braided Hose

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	3,000psi
Burst Pressure	12,000psi
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



wire-lock

Standard	HF14
LP chrome	LP14W-7C

FEMALE SWIVEL M10×1

LP128W

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



wire-lock

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	12.25mm	9/16"
BQ9151		3/8-24 UNF	10.25mm	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

Standard HFB493
Right pair LPB494-10M



left

LPB494-10M

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

Standard HFB494
Left pair LPB493-10M



right

ROUND BANJO

8 MM HOLE

LPB27-8M

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

Standard HFB27



bendable to 45°

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



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

LPB09-45-10M

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



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



LP chrome	LPB171-10MC
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LPB656

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



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



bendable to 45°

Standard HFB47
Stainless HFB47SS

7/16" HOLE

LPB448-7

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



bendable to 45°

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



Standard HFMF48

LPMF322-M10X1

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



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

CLIP MOUNT M10×1

LPMF01-M10X1

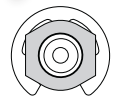
Thread M10×1 port
Hex 17mm

LP stainless LPMF01-M10X1SS



LPMF02-M10X1

Thread M10×1 port
Flats 17mm



LPMF04

Thread M10×1 port
Flats 17mm



LPMF05-M10X1

Thread M10×1 port
Hex 14mm

LP zinc-nickel LPMF05-M10X1Z



LPMF08-M10X1

Thread M10×1 port
Hex 17mm



LPMF11

Thread M10×1 port
Flats 19mm



METRIC FEMALE *CONTINUED*

LPMF14

Thread M10×1 port
Flats 17 mm



LPMF15

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

Standard HFMF393



LPMF16

Thread M10×1 port
Flats 19 mm



LPMF20

Thread M10×1 port
Flats 17 mm



LPMF24

Thread M10×1 port
Flats 19 mm



LPMF28

Thread M10×1 port
Flats 17 mm



CLIP MOUNT M10×1.25

LPMF09-M10X125

Thread M10×1.25 port
Hex 17 mm



CLIP MOUNT M12×1

LPMF10

Thread M12×1 port
Hex 19 mm



LPMF47Z

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

Standard HFMF47



zinc-nickel

IMPERIAL MALE

JIC MALE 3/8-24 UNF

LPIM28-6

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

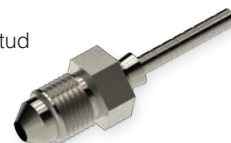


Standard HFIM28

JIC MALE 7/16-20 UNF

LPIM29-7

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



Standard HFIM29

BULKHEAD MOUNT 3/8-24 UNF

LPIM02-6

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



Standard HFIM02
LP stainless LPIM02-6SS

STANDARD MOUNT 3/8-24 UNF

LPIM01-6

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



Standard HFIM01
Brass HFIM01B
Stainless HFIM01SS

STANDARD 7/16-20 UNF

LPIM03-7

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



Standard HFIM03
Stainless HFIM03SS

STANDARD 7/16-24 UNS

LPIM13-7

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



Standard HFIM13

STANDARD NPT

LPIM19

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



Standard HFIM19
Stainless HFIM19SS

METRIC MALE

BULKHEAD MOUNT M10×1

LPMM02-M10X1

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



Standard	HFMM02
----------	--------

STANDARD MOUNT M10×1

LPMM01-M10X1

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



Standard	HFMM01
----------	--------

LPMM03-M10X1

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



Standard	HFMM03
LP zinc-nickel	LPMM03-M10X1Z

LPMM06-M10X1

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



Standard	HFMM06
Stainless	HFMM06SS

LPMM22Z

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



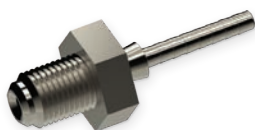
zinc-nickel

Standard	HFMM22
----------	--------

STANDARD MOUNT M10×1.25

LPMM04-M10X125

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



Standard	HFMM04
----------	--------

CENTER SUPPORT

BRACKET MOUNT

LPC05

Mount hole	8.5 mm
Width	20 mm
Overall length	29 mm

Standard HFC05



CLIP MOUNT

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

LPC01

Width	17 mm
Hex	17 mm
Overall length	33 mm

Standard HFC01



LPC06

Width	17 mm
Flats	17 mm
Overall length	34 mm

Standard HFC06



LPC07

Width	19 mm
Flats	19 mm
Overall length	36 mm

Standard HFC07



LPC09

Width	17 mm
Flats	17 mm
Overall length	34 mm

Standard HFC09



LPC12

Width	17 mm
Flats	17 mm
Overall length	36 mm

Standard HFC12



LPC17

Width	16 mm
Flats	16 mm
Overall length	37 mm

Standard HFC17



LPC301

Width	20 mm
Overall length	33 mm

Standard HFC301A
LP zinc-nickel LPC301Z



LPC331

Width	20 mm
Flats	17 mm
Overall length	35 mm

Standard HFC331



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

POWER STEERING

Hose

High-pressure Hose	124
Low-pressure Hose	124

Accessories

Restrictor Tube	125
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Fittings

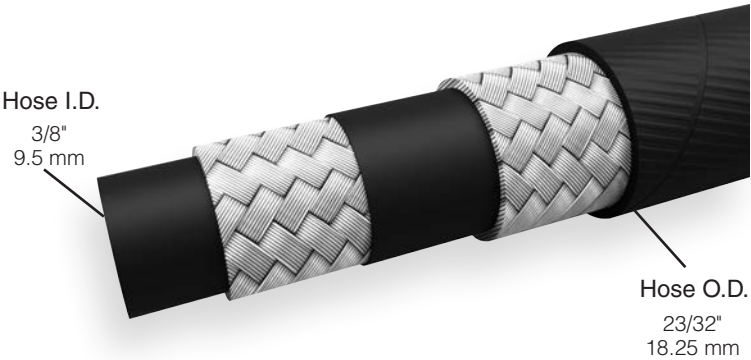
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HOSE

HIGH PRESSURE

High Pressure Power Steering Hose, Rubber
PS330

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

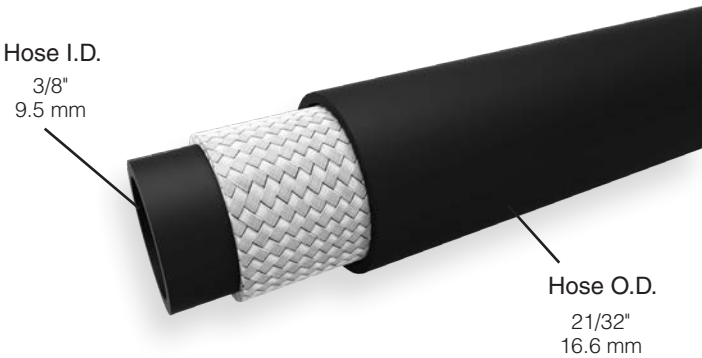


Compatible with petroleum based power steering and transmission oils.

LOW PRESSURE

Low Pressure Power Steering Hose, Rubber
PS331

Carriers	24
Wires per Carrier	2
Hose Wall	0.06" / 1.5 mm
Operating Pressure	300 psi
Burst Pressure	1,200 psi
Bend Radius	3.0" / 76.2 mm
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

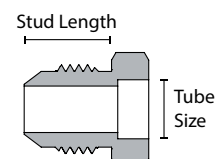


/// Bump Tube Adapter Assortment Kit, BQ7003, is on page 157.

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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Fuel Line Kit

Professional Fuel Line Kit	134
----------------------------	-----

FUEL CONNECTORS

QUICK CONNECTS

Thumb-release convenience with no special tools required.

Straight

Female	Male	Part Number
1/4"	5/16"	FL08-4-5
5/16"	5/16"	FL08-5-5
5/16"	3/8"	FL08-5-6
3/8"	5/16"	FL08-6-5
3/8"	3/8"	FL08-6-6

90°

Female	Male	Part Number
5/16"	5/16"	FL09-5-5
5/16"	3/8"	FL09-5-6
3/8"	5/16"	FL09-6-5
3/8"	3/8"	FL09-6-6



QUICK CONNECT TUBES

Description

- 1/4" quick connect to 8mm FuelFlex - straight
- 5/16" quick connect to 8mm FuelFlex - straight
- 3/8" quick connect to 3/8" quick connect - straight
- 3/8" quick connect to 10mm FuelFlex - straight

Part Number

- FL05-4
- FL03-5
- FL04-6
- FL03-6



FUELFLEX CONNECTORS

Description

- 8mm FuelFlex to 8mm FuelFlex - 90°
- 10mm FuelFlex to 10mm FuelFlex - 90°

Part Number

- FL20-5
- FL20-6



FUELFLEX REDUCERS

Description

- 8mm FuelFlex to 1/4" FuelFlex
- 10mm FuelFlex to 8mm FuelFlex

Part Number

- FL06-5-4
- FL06-6-5



FUELFLEX TO RUBBER HOSE

Description

- 8mm FuelFlex to 5/16" rubber hose
- 10mm FuelFlex to 3/8" rubber hose

Part Number

- FL02-5
- FL02-6



FUEL CONNECTORS CONTINUED

THREAD CONNECTORS

Straight

Tube End	End Form	Thread	Length	Part Number
5/16" rubber hose	bump	M14×1.5	230 mm	FL07-5
3/8" rubber hose	bump	M16×1.5	230 mm	FL07-6
8 mm FuelFlex	double flare	M14×1.5	90 mm	FL12-14MM
8 mm FuelFlex	bump	M14×1.5	155 mm	FL13-5
8 mm FuelFlex	bump	M14×1.5	100 mm	FL14-5
10 mm FuelFlex	bump	M16×1.5	155 mm	FL13-6
10 mm FuelFlex	bump	M16×1.5	100 mm	FL14-6



Bent

Tube End	End Form	Thread	Bend	Part Number
8 mm FuelFlex	double flare	M14×1.5	30°	FL11-14MM
10 mm FuelFlex	bump	M16×1.5	180°	FL15



FUEL FITTINGS

FUELFLEX UNIONS

Size	Part Number
8 mm	FL01-5
10 mm	FL01-6



MALE-FEMALE ADAPTERS

Male	Female	Seat	Part Number
8 mm FuelFlex	M14×1.5	bump	FL10-5S <i>steel</i>
10 mm FuelFlex	M16×1.5	bump	FL10-6S <i>steel</i>
8 mm 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
8 mm FuelFlex — 5/16" metal tube	FL36 <i>brass</i>
8 mm FuelFlex — 8 mm FuelFlex	FL37 <i>brass</i>
10 mm FuelFlex — 3/8" metal tube	FL38 <i>brass</i>
10 mm FuelFlex — 10 mm FuelFlex	FL39 <i>brass</i>



FUEL ACCESSORIES

FUELFLEX TUBING

Size	Coil Length	Part Number
8 mm (5/16")	25 ft	T8-FF
10 mm (3/8")	25 ft	T10-FF



SPRING MANDRELS

Size	Part Number
8 mm (5/16")	BQ318
10 mm (3/8")	BQ319



FUEL PRESSURE REPAIR KIT

Size	Part Number
8 mm (5/16")	FL21
10 mm (3/8")	FL22



TUBE SUPPORT CLAMPS

Size	Part Number
8 mm (5/16")	FL35
10 mm (3/8")	FL34



360° TUBE CLAMPS

Size	Part Number
8 mm (5/16")	FL25
10 mm (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
TUBING					
T8-FF	25 ft	FUELFLEX REDUCERS		COMPRESSION FITTINGS	
T10-FF	25 ft	FL06-6-5	2	FL36	2
QUICK CONNECTS					
FL08-4-5	2	FUELFLEX ADAPTERS		FL37	2
FL08-5-5	2	FL02-5	2	FL38	2
FL08-5-6	2	FL02-6	2	FL39	2
FL08-6-5	2	THEADED CONNECTORS			
FL08-6-6	2	FL07-5	2	BUMP TUBE NUTS	
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	SCREWS AND CLAMPS	
FL09-6-6	2	FL13-5	2	BQ811	20
QUICK CONNECTOR TUBES					
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
FUELFLEX CONNECTORS					
FL20-5	2	FUELFLEX UNIONS			
FL20-6	2	FL01-5	2	TOOLS	
		FL01-6	2	BQ318	1
		MALE-FEMALE ADAPTERS			
		FL10-5S	1	BQ319	1
		FL10-6S	1	BQ-01	1
		FL10-14MM	1	BQ412	1
				TUBE PROTECTION	
				BQ313-SV	5 ft

TUBING & HARDWARE

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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.

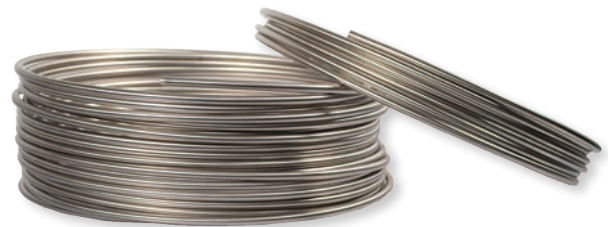
IDEAL FOR BUILDERS

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.

HOSE & PROTECTORS

HOSE

Remote Reservoir Hose

Available in 10ft sections.

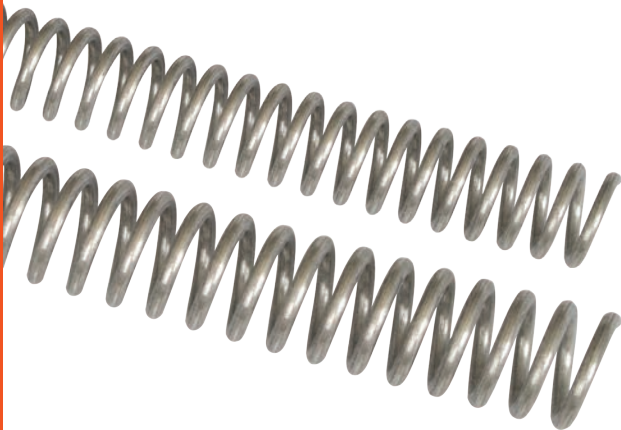


Inner Diameter	Outer Diameter	Part Number
1/4"	7/16"	BQ320
5/16"	1/2"	BQ321
3/8"	9/16"	BQ322

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

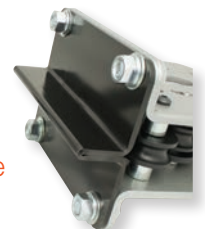


Brake Tube Straightener

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.

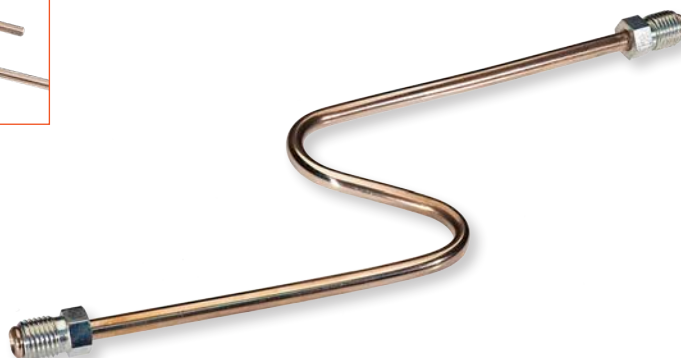


Professional Tube Bender

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

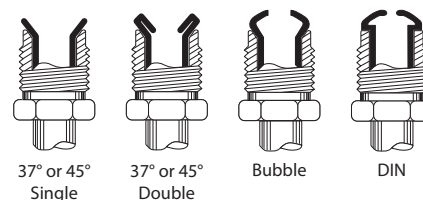


TUBING TOOLS CONTINUED

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

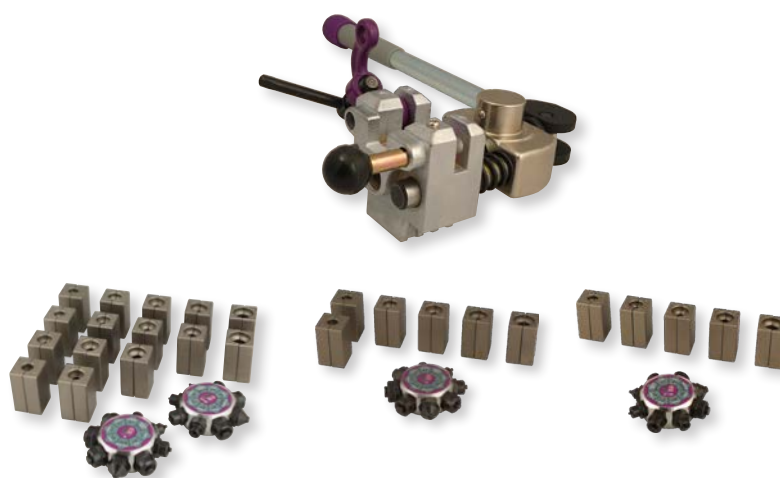


"A" Series

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	BQ350A

"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"	—
BQ350	BQ351	BQ352

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.



8-Piece Stopper Kit BQ408



BQ408 comes in slide-lock clamshell case.

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

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 × 1
3/8-24 UNF	M10 × 1
7/16-20 UNF	M10 × 1.25
7/16-24 UNS	M10 × 1.5
1/2-20 UNF	M11 × 1.25
9/16-18 UNF	M12 × 1
9/16-20 UNS	M12 × 1.25
	M12 × 1.5
	M14 × 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

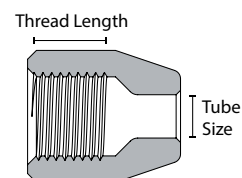
/// Full list of bleed screws and caps are on page 156.

HARDWARE

TUBE NUTS

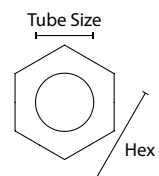
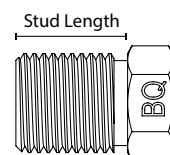
Female Imperial

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



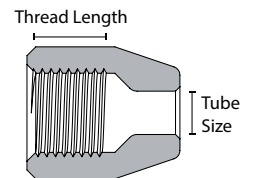
/// Copper Seat Seal (Flare Gasket) is on page 154.
 /// Imperial Tube Nuts Assortment Kit, BQ7006, is on page 158.

HARDWARE

CONTINUED

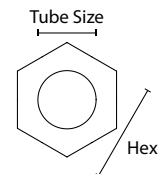
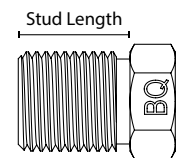
Female Metric

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

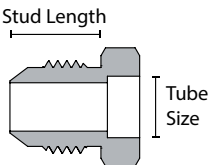
Port thread 3/8-24 UNF, inverted
Stud thread 3/8-24 UNF
Dash size -03 JIC



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

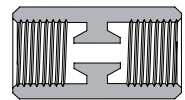
FEMALE UNIONS

Imperial

Thread	Seat	Hex	Overall Length	Part Number
3/8-24 UNF	45°	1/2"	22.2 mm	BQ110
3/8-24 UNF	45°	1/2"	22.2 mm	BQ110B <i>brass</i>
3/8-24 UNF	bubble	1/2"	25 mm	BQ115
7/16-24 UNS	45°	9/16"	22.2 mm	BQ111
7/16-24 UNS	45°	9/16"	22.2 mm	BQ111SS <i>stainless</i>
1/2-20 UNF	45°	5/8"	25 mm	BQ112
9/16-18 UNF	45°	3/4"	27 mm	BQ119
5/8-18 UNF	45°	3/4"	27 mm	BQ113



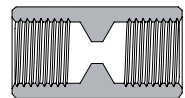
45° Inverted



Metric

Thread	Seat	Hex	Overall Length	Part Number
M10×1	45°	13 mm	24 mm	BQ117
M10×1	DIN	13 mm	25 mm	BQ114
M12×1	45°	16 mm	25 mm	BQ116
M12×1	DIN	16 mm	27 mm	BQ147

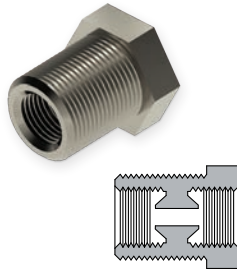
Bubble or DIN



Bulkhead Union

BQ148

Thread	7/16-24 UNS (2)
Seat type	45° inverted
Mount thread	5/8-18 UNF
Hex	19 mm



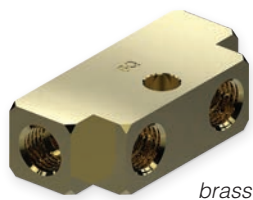
Secure with BQ13 bulkhead nut.

/// Female Unions Assortment Kit, BQ7009, is on page 158.

Tandem Trailer Fittings

BQ4700B

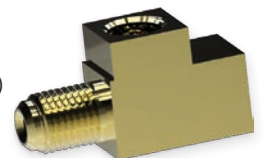
Thread	3/8-24 UNF (4)
Seat type	inverted

*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	16mm
Overall length	44mm



BQ292

Thread	3/8-24 UNF studs (2)
Dash size	-03 JIC
Hex	7/16"
Stud length	12.2mm
Overall length	30.7mm



Stainless BQ292SS

BQ293SS

Thread	3/8-24 UNF studs (2)
Dash size	-03 JIC
Hex	7/16"
Stud length	12.2mm
Overall length	45.9mm



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	13mm	5 mm	BQ79
M12×1	19mm	6 mm	BQ81
M12×1.5	19mm	6 mm	BQ82
M16×1.5	22mm	7 mm	BQ87
M18×1.5	25mm	8 mm	BQ86
M20×1.5	27mm	8 mm	BQ85

HARDWARE CONTINUED

TEES

Female Imperial

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
1/8-27 NPT	NPT	31.75 mm	Bolt	8.2 mm	14 mm	BQ93A
3/8-24 UNF	45°	T-shape	none	none	1/2"	BQ264
3/8-24 UNF	45°	31.75 mm	Bolt	8.2 mm	1/2"	BQ90A
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	BQ56A
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	BQ56AB <i>brass</i>
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	BQ56ASS <i>stainless</i>
7/16-20 UNF	bubble	31.75 mm	Bolt	8.2 mm	14 mm	BQ94A
7/16-24 UNS	45°	31.75 mm	Bolt	8.2 mm	14 mm	BQ92A



Female Metric

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
M10 × 1	45°	31.75 mm	Bolt	8.2 mm	1/2"	BQ91A
M10 × 1	DIN	31.75 mm	Bolt	7.2 mm	14 mm	BQ95A

Male Imperial

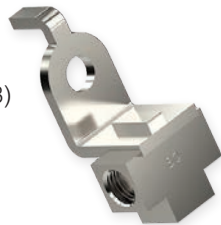
Thread	Dash Size	Diameter	Mount	Mount Hole	Thickness	Part Number
3/8-24 UNF	-03 JIC	31.75 mm	Bolt	8.2 mm	1/2"	BQ360
7/16-20 UNF	-04 JIC	31.75 mm	Bolt	8.2 mm	1/2"	BQ361



Tees with Bracket

BQ7812

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Mount hole size	8.5 mm
Brass	BQ7813B



BQ7813B

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Mount hole size	8.8 mm
Steel	BQ7812



brass

Double Bolt Tee

BQ177SS

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Diameter	47 mm
Thickness	1/2"
Mount hole size	8.5 mm

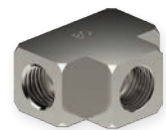
*stainless
for Harley*



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



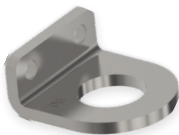
Clip - Toyota
BQ3053



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

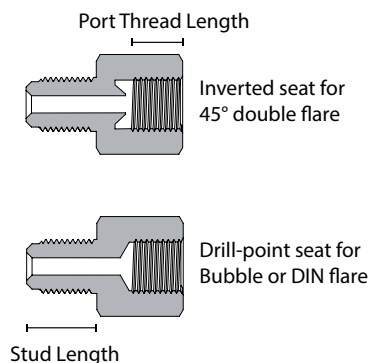


HARDWARE

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

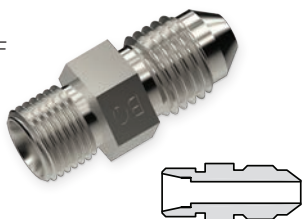


/// Male-Male Adapters Assortment Kit, BQ7010, is on page 158.

-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 x 1	17 mm	10 mm	BQ8076	BQ813
M8 x 1.25	16 mm	10 mm	BQ8077	BQ813
M10 x 1	22 mm	11 mm	BQ8095	BQ1016
M10 x 1	26 mm	11 mm	BQ8094	BQ1016
M10 x 1.25	22 mm	11 mm	BQ8099	BQ1016
M10 x 1.5	20 mm	11 mm	BQ8075	BQ1016
M10 x 1.5	23 mm	11 mm	BQ8086	BQ1016
M10 x 1.5	23 mm	11 mm	BQ8086SS	BQ1016
M10 x 1.5	27 mm	11 mm	BQ8088	BQ1016
M11 x 1.25	23 mm	11 mm	BQ8087	BQ1118
M12 x 1	21.3 mm	13 mm	BQ8098	BQ1218
M12 x 1.25	25 mm	13 mm	BQ8078	BQ1218
M12 x 1.5	25 mm	13 mm	BQ8092	BQ1218

stainless



Double

Thread	Stud Length	Hex	Part Number	Washer
3/8-24 UNF	34.5 mm	7/16"	BQ8085	BQ3858
M10 x 1	34.5 mm	11 mm	BQ8083	BQ1016
M10 x 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	42 mm	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	42 mm	BQ155 <i>tube</i>
1/2-20 UNF	-05 JIC	14mm	14mm	24 mm	26 mm	BQ271
1/2-20 UNF	-05 JIC	14mm	14mm	24 mm	44 mm	BQ392 <i>tube</i>
9/16-18 UNF	-06 JIC	16mm	16mm	28 mm	44 mm	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	7mm	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	11mm	BQ506
M10×1	inverted seat	11mm	BQ502
M12×1	drill-point seat	13mm	BQ507
M12×1	inverted seat	13mm	BQ505

/// Brake Hose Plugs & Caps Assortment Kit, BQ7015, is on page 159.

HARDWARE CONTINUED

ASSORTMENT KITS

Assortment kits contain a selection of hard-to-find parts and problem-solvers.
Call about custom branding.

Copper Washers

BQ7000

Part Number	Qty
BQ1016	20
BQ1118	20
BQ1218	20
BQ1320	20
BQ1421	10
BQ1522	10
BQ1624	10
BQ3858	20



/// Copper washer listing is on page 154.

Bump Tube Adapters

BQ7003

Part Number	Qty
5MBT-5MJ	4
7MBT-6MJ	4
14MMBT-6MJ	4
16MMBT-6FI	4
16MMBT-6MJ	4
18MMBT-6MJ	4



/// Bump tube adapter listing is on page 153.

Banjo Adapters

BQ7001

Part Number	Qty
BQ60	4
BQ61	4
BQ62	4
BQ63	4
BQ150	4
BQ151	4



/// Banjo adapter listing is on page 155.

Male-Female Adapters

BQ7004

Part Number	Qty
BQ40	2
BQ41	4
BQ42	4
BQ43	4
BQ44	4
BQ45	4
BQ46	4
BQ47	4
BQ48	4
BQ49	4
BQ50	4
BQ120	4
BQ121	2
BQ122	4
BQ123	2
BQ124	2
BQ125	4
BQ156	4



/// Male-Female adapter listing is on page 151.

3-Way Tube Tees

BQ7002

Part Number	Qty
BQ56A	2
BQ90A	2
BQ91A	2
BQ92A	2
BQ93A	2
BQ95A	2



/// Tee listing is on page 149.

HARDWARE

CONTINUED

Metric Tube Nuts

BQ7005

Part Number	Qty
BQ72	4
BQ4511	10
BQ4512	6
BQ4513	6
BQ9174	4
BQ9175	4
BQ9178	4
BQ9179	4
BQ9180	4
BQ9182	4
BQ9183	4
BQ9188	4
BQ9191	4
BQ9192	4
BQ9193	4



/// Metric tube nut listing is on page 144.

Imperial Tube Nuts

BQ7006

Part Number	Qty
BQ57	4
BQ2577	10
BQ2578	6
BQ4276	4
BQ4277	4
BQ4285	4
BQ5555	10
BQ5842	10
BQ6118	6
BQ9176	4
BQ9177	4
BQ9184	4
BQ9185	4
BQ9186	4
BQ9187	4



/// Imperial tube nut listing is on page 144.

Banjo Bolts

BQ7007

Part Number	Qty
BQ8086	4
BQ8087	4
BQ8088	4
BQ8089	4
BQ8090	4
BQ8092	4
BQ8093	6
BQ8095	6
BQ8096	4
BQ8097	4
BQ8098	4
BQ8099	4



/// Banjo bolt listing is on page 154.

Female Unions

BQ7009

Part Number	Qty
BQ110	4
BQ111	4
BQ114	4
BQ115	4
BQ116	4
BQ117	4



/// Female union listing is on page 147.

Male-Male Adapters

BQ7010

Part Number	Qty
BQ129	4
BQ130	4
BQ131	4
BQ134	4
BQ135	4
BQ144	4



/// Male-Male adapter listing is on page 152.

HARDWARE

CONTINUED

Bleed Screws

BQ7014

Part Number	Qty
BQ315	10
BQ316	10
BQ4433	4
BQ4434	4
BQ4435	4
BQ4438	4
BQ4439	4
BQ4440	4
BQ4441	4
BQ4442	4
BQ4443	4
BQ4444	4
BQ4445	4
BQ4446	4



/// Bleed screw listing is on page 156.

Brake Hose Plugs & Caps

BQ7015

Part Number	Qty
BQ160	2
BQ161	2
BQ163	2
BQ164	2
BQ165	2
BQ166	2
BQ167	2
BQ502	2
BQ503	2
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BQ508	2
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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, where corrections are gratefully received. Many thanks to all who contribute to the accuracy of the BrakeQuip Catalog.



BrakeQuip LLC
865.251.9193
sales@brakequip.com