CATALOG

Automotive Hose, Tubing, and Components

BrakeQuip®

INNOVATIVE SOLUTIONS FOR AUTOMOTIVE TUBES AND HOSES

Since 1998 *brakequip.com*

BrakeQuip

Catalog

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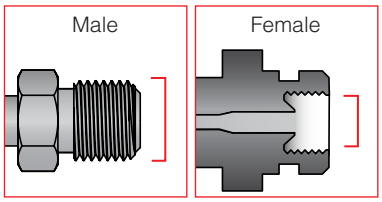
THREAD IDENTIFICATION

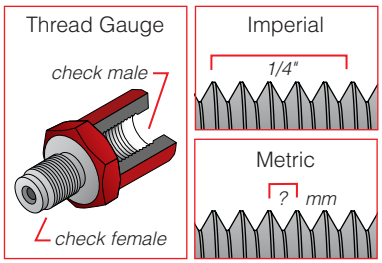
Tool: Thread ID Kit (BQ2100)



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

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Versatile Crimping System 8

Brake Hose Pressure Tester 8

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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

10 mm 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

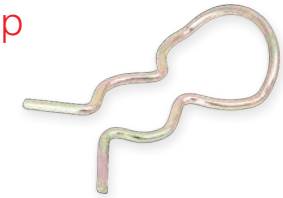
GENERAL CRIMP-SETTING

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

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- Braided Brake Hose 14

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

Round Banjo
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- 10mm hole 47
- 11mm hole 57
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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

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

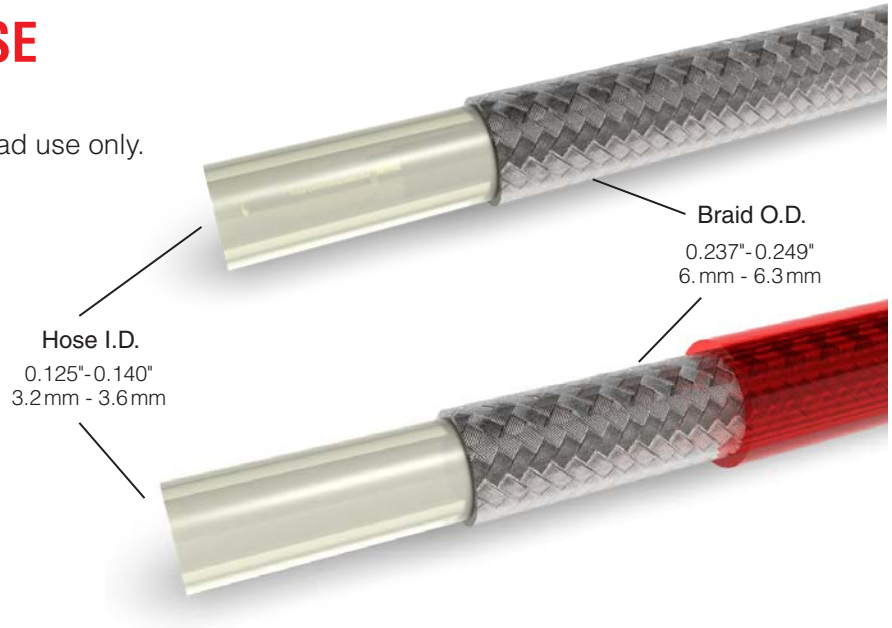
BRAIDED BRAKE HOSE

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

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

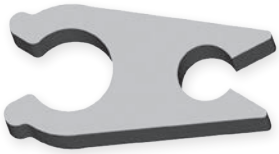
BQ68
Sold in packs of 6

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

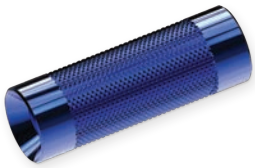
Crimp Shell Inserts

BQ251-BK

Color black

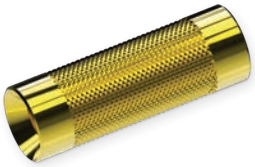
BQ251-BL

Color blue



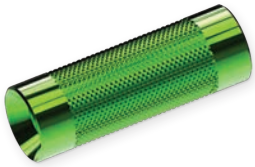
BQ251-GD

Color gold



BQ251-GR

Color green

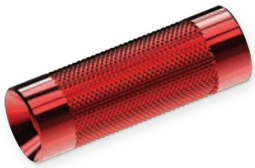


BQ251-PP

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	LP09W-6
LP chrome	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	LP10W-6
LP chrome	LP10W-6C

HF11

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

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

GENERAL FITTINGS *CONTINUED*

FEMALE SWIVEL 7/16-20 UNF

HF12

Thread	7/16-20 UNF
Flare	37° double
Bend	straight
Tube size	1/4"
Overall length	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	16 mm
Overall length	49 mm

HF145

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

MALE SWIVEL 1/20-20 UNF

HF18

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

HF28

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

HF29

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

HF92

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

HF142

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

HF154

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

MALE SWIVEL 9/16-18 UNF

HF98

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

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" / 8 mm Tube-Style Lifesaver

HF27

Tube size	5/16"
Overall length	27 mm
Low profile	LP01-5

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

GENERAL FITTINGS *CONTINUED*

CENTER JOINER

HF37

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

HF38

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

HF71

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

HF72

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

HF73

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

HF74

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

HF300

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

GENERAL FITTINGS *CONTINUED*

CLUTCH

HF35

HF62

HF83

O-ring included.

HF114

Low profile	LP156

O-ring included.

HF125

O-ring and release included.

COMPRESSION

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

HF30

Tube size	3/16"
Hex	1/2"

HF31

Tube size	1/4"
Hex	14 mm
Stainless	HF31SS

BLOCK BANJO

10 MM HOLE UNIVERSAL

HFB22

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

7/16" HOLE UNIVERSAL

HFB23

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

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

8 MM HOLE 17 MM WIDTH

HFB112

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

10 MM HOLE 16 MM WIDTH

HFB13

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

HFB81

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

10 MM HOLE 17 MM WIDTH

HFB17

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

HFB21

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

BLOCK BANJO *CONTINUED*

HFB46

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

HFB100

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

HFB144

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

HFB300

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

10 MM HOLE 18 MM WIDTH

HFB236

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

HFB367

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

HFB397

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

HFB474

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

right

Left pair HFB475

HFB475

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

left

Right pair HFB474

BLOCK BANJO *CONTINUED*

HFB493

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

left

Low profile	LPB493-10M
Right pair	HFB494

HFB494

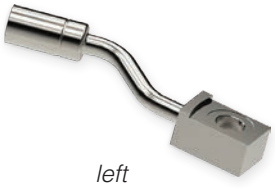
Hole	10 mm
Thickness	1/2"
Width	18 mm
Bend	90°
Overall length	70 mm

right

Low profile	LPB494-10M
Left pair	HFB493

HFB590

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



left

Right pair	HFB591

HFB591

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

right

Left pair	HFB590

HFB592

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

left

Right pair	HFB593

HFB593

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

right

Left pair	HFB592

HFB594

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

left

Right pair	HFB595

HFB595

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

right

Left pair	HFB594

HFB598

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

left

Right pair	HFB599

HFB599

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

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

HFB259

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

left

Right pair HFB260

HFB260

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

right

Left pair HFB259

HFB267

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

HFB450

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

right

Left pair HFB451

HFB451

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

left

Right pair HFB450

10 MM HOLE 22 MM WIDTH

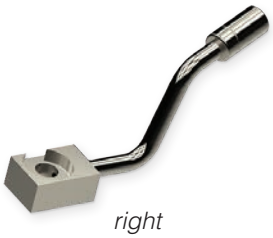
HFB51

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

BLOCK BANJO *CONTINUED*

HFB121

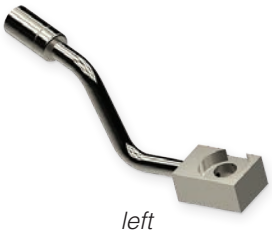
Hole	10 mm
Thickness	14.7 mm
Width	22.2 mm
Overall length	127 mm
Left pair	HFB122



right

HFB122

Hole	10 mm
Thickness	14.7 mm
Width	22.2 mm
Overall length	127 mm
Right pair	HFB121



left

HFB173

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

HFB239

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

HFB240

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

HFB242

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

HFB245

Hole	10 mm
Thickness	11.7 mm
Width	22.2 mm
Overall length	100 mm
Left pair	HFB246

right

HFB246

Hole	10 mm
Thickness	11.7 mm
Width	22.2 mm
Overall length	100 mm
Right pair	HFB245

left

HFB247

Hole	10 mm
Thickness	11.8 mm
Width	22.2 mm
Bend	30°
Overall length	51.9 mm
Right pair	HFB248

left

HFB248

Hole	10 mm
Thickness	11.8 mm
Width	22.2 mm
Bend	30°
Overall length	51.9 mm
Left pair	HFB247

right

HFB249

Hole	10 mm
Thickness	11.8 mm
Width	22.2 mm
Overall length	68.3 mm
Right pair	HFB250

left

HFB250

Hole	10 mm
Thickness	11.8 mm
Width	22.2 mm
Overall length	68.3 mm
Left pair	HFB249

right

BLOCK BANJO *CONTINUED*

HFB284

Hole	10 mm
Thickness	11.5 mm
Width	22.4 mm
Overall length	107.4 mm
Right pair	HFB285

left

HFB285

Hole	10 mm
Thickness	11.5 mm
Width	22.4 mm
Overall length	107.4 mm
Left pair	HFB284

right

HFB286

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

HFB328

Hole	10 mm
Thickness	7/16"
Width	22 mm
Overall length	75 mm
Left pair	HFB329

right

HFB329

Hole	10 mm
Thickness	7/16"
Width	22 mm
Overall length	75 mm
Right pair	HFB328

left

HFB410

Hole	10 mm
Thickness	12 mm
Width	22 mm
Bend	55°
Overall length	86.6 mm
Right pair	HFB411

left

HFB411

Hole	10 mm
Thickness	12 mm
Width	22 mm
Bend	55°
Overall length	86.6 mm
Left pair	HFB410

right

10 MM HOLE 25 MM WIDTH

HFB597

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

BLOCK BANJO *CONTINUED*

10 MM HOLE 26 MM WIDTH

HFB56

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

HFB403

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

10 MM HOLE 28 MM WIDTH

HFB11

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

HFB86

Hole	10 mm
Thickness	14.2 mm
Width	28.6 mm
Overall length	175 mm
Right pair	HFB87

left

HFB87

Hole	10 mm
Thickness	14.2 mm
Width	28.6 mm
Overall length	175 mm
Left pair	HFB86

right

11 MM HOLE 19 MM WIDTH

HFB54

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

HFB59

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

HFB66

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

HFB72

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

BLOCK BANJO *CONTINUED*

11 MM HOLE 20 MM WIDTH

HFB60

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

11 MM HOLE 22 MM WIDTH

HFB61

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

HFB78

Hole	11 mm
Thickness	11 mm
Width	22.2 mm
Overall length	133 mm
Right pair	HFB79

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	14.9 mm
Width	20.5 mm
Angle	straight
Overall length	42 mm

HFB283

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

3/8" HOLE 22 MM WIDTH

HFB58

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

HFB68

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

left

Right pair	HFB69

HFB69

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

right

Left pair	HFB68

HFB135

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

right

Left pair	HFB136

HFB136

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

left

Right pair	HFB135

HFB140

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

left

Right pair	HFB141

HFB141

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

right

Left pair	HFB140

BLOCK BANJO *CONTINUED*

HFB230

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

right

Left pair HFB231

HFB231

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

left

Right pair HFB230

HFB277

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

right

Left pair HFB278

HFB278

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

left

Right pair HFB277

HFB315

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

left

Right pair HFB316

HFB316

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

right

Left pair HFB315

HFB386

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

left

Right pair HFB387

HFB387

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

right

Left pair HFB386

HFB418

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

left

Right pair HFB419

HFB419

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

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

left

HFB210

Hole	3/8"
Thickness	1/2"
Width	23 mm
Overall length	180 mm
Left pair	HFB209

right

HFB323

Hole	3/8"
Thickness	1/2"
Width	23.1 mm
Bend	90°
Overall length	63 mm
Right pair	HFB324

left

HFB324

Hole	3/8"
Thickness	1/2"
Width	23.1 mm
Bend	90°
Overall length	63 mm
Left pair	HFB323

right

HFB430

Hole	3/8"
Thickness	12.5 mm
Width	23.3 mm
Overall length	143.8 mm
Left pair	HFB431

right

HFB431

Hole	3/8"
Thickness	12.5 mm
Width	23.3 mm
Overall length	143.8 mm
Right pair	HFB430

left

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

left

Right pair HFB381

HFB381

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

right

Left pair HFB380

HFB384

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

HFB623

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

right

Left pair HFB624

HFB624

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

left

Right pair HFB623

3/8" HOLE 26 MM WIDTH

HFB306

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

right

Left pair HFB307

HFB307

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

left

Right pair HFB306

BLOCK BANJO *CONTINUED*

3/8" HOLE 28 MM WIDTH

HFB67

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

7/16" HOLE 22 MM WIDTH

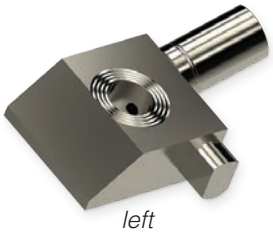
HFB276

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

7/16" HOLE 32 MM WIDTH

HFB165

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



left

Right pair HFB166

HFB166

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

right

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

bendable to 90°

Stainless	HFB34SS

HFB35

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

bendable to 90°

HFB50

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

left

bendable to 45°

Right pair	HFB73

HFB73

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

right

bendable to 45°

Left pair	HFB50

HFB75

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

HFB288

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

bendable to 45°

HFB342

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

right

Left pair	HFB343

HFB343

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

left

Right pair	HFB342

HFB344

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

bendable to 45°

ROUND BANJO *CONTINUED*

HFB358

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

left

Right pair HFB359

HFB359

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

right

Left pair HFB358

HFB366

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

HFB530

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

HFB544

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

HFB545

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

left

Right pair HFB546

HFB546

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

right

Left pair HFB545

ROUND BANJO *CONTINUED*

HFB547

Hole	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
Bend	
Overall length	48.8 mm

left

Right pair HFB570

HFB570

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

right

Left pair HFB569

ROUND BANJO *CONTINUED*

10 MM HOLE 18 MM WIDTH

HFB02

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

bendable to 45°

HFB09

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

bendable to 45°

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

HFB15

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

bendable to 45°

HFB28

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

bendable to 45°

HFB37

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

bendable to 90°

Stainless	HFB37SS

HFB92

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

left

Right pair	HFB93

HFB93

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

right

Left pair	HFB92

ROUND BANJO *CONTINUED*

HFB194

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

Low profile LPB455-10M

HFB340

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

HFB345

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

HFB348

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

left

Right pair HFB349

HFB349

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

right

Left pair HFB348

HFB351

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

left

bendable to 45°

Right pair HFB352

HFB352

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

right

bendable to 45°

Left pair HFB351

HFB353

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

right

Left pair HFB354

HFB354

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

left

Right pair HFB353

ROUND BANJO *CONTINUED*

HFB357

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

HFB362

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

left

Right pair HFB363

HFB363

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

right

Left pair HFB362

HFB364

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

HFB373

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

HFB375

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

bendable to 45°

HFB456

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

right

Left pair HFB457

HFB457

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

left

Right pair HFB456

ROUND BANJO *CONTINUED*

HFB519

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

HFB523

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

bendable to 45°

HFB527

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

bendable to 45°

HFB528

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

HFB534

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

HFB535

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

left

Right pair HFB536

HFB536

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

right

Left pair HFB535

HFB537

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

left

Right pair HFB538

HFB538

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

right

Left pair HFB537

ROUND BANJO *CONTINUED*

HFB539

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

left

Right pair HFB540

HFB540

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

right

Left pair HFB539

HFB541

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

left

Right pair HFB542

HFB542

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

right

Left pair HFB541

HFB573

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

left

Right pair HFB574

HFB574

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

right

Left pair HFB573

10 MM HOLE 19 MM WIDTH

HFB10

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

1/8-27 NPT port, for Harley

10 MM HOLE 20 MM WIDTH

HFB533

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

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

left

Right pair	HFB159

HFB159

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

right

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

bendable to 45°

Stainless	HFB47SS
Low profile	LPB47-12M

15 MM HOLE 25 MM WIDTH

HFB19

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

ROUND BANJO *CONTINUED*

3/8" HOLE 21 MM WIDTH

HFB105

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

left

Right pair	HFB106

HFB106

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

right

Left pair	HFB105

7/16" HOLE 19 MM WIDTH

HFB448

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

bendable to 90°

Low profile	LPB448-7
LP stainless	LPB448-7SS

HFB679

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

HFB681

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

Low profile	LPB448-90-7

HFB682

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

side bend

Low profile	LPB652

IMPERIAL FEMALE

BOLT MOUNT 3/8-24 UNF

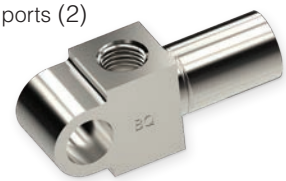
Inverted seat

HFIF23

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

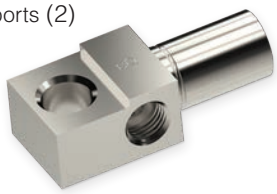
HFIF25

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



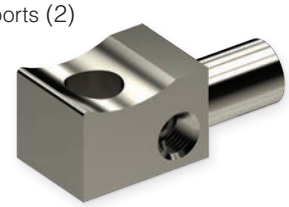
HFIF34

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



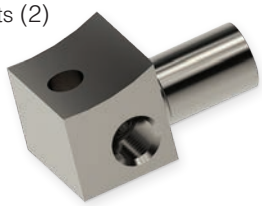
HFIF37

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



HFIF43

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



HFIF47

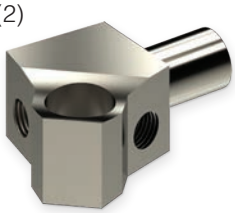
Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	12 mm
Overall length	50 mm

HFIF53

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

HFIF55

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



HFIF56

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

HFIF66

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

IMPERIAL FEMALE *CONTINUED*

Inverted seat

HFIF80

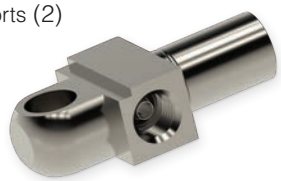
Thread	3/8-24 UNF ports (2)
Seat type	inverted
Mount hole	11.8 mm
Overall length	52 mm

HFIF88

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

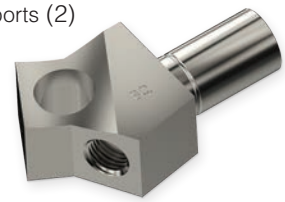
HFIF94

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



HFIF110

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



HFIF129

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

HFIF180

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

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

Inverted seat

HFIF28

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

HFIF31

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

HFIF39

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

HFIF48

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

IMPERIAL FEMALE *CONTINUED*

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

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

IMPERIAL FEMALE *CONTINUED*

BRACKET MOUNT 3/8-24 UNF

Inverted seat

HFIF15

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

HFIF22

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

HFIF60A

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

HFIF70

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

HFIF90

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

HFIF99

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

HFIF120

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

Use with wire brackets (such as BQB415).

HFIF146

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

HFIF147

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

HFIF148

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

IMPERIAL FEMALE *CONTINUED*

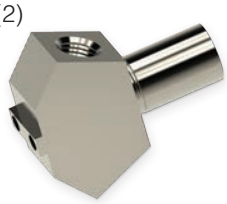
Inverted seat

HFIF149

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

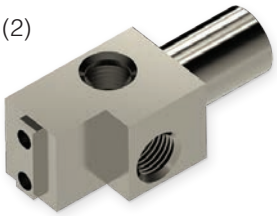
HFIF152

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



HFIF153

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



HFIF304

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

BRACKET MOUNT 7/16-24 UNS

Inverted seat

HFIF52

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

HFIF109

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

HFIF138

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

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

IMPERIAL FEMALE *CONTINUED*

BULKHEAD MOUNT 1/8-27 NPT

HFIFX20

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

BULKHEAD MOUNT 3/8-20 BSF

HFIFX03

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

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	19 mm
Overall length	45 mm

Inverted seat

HFIFX02

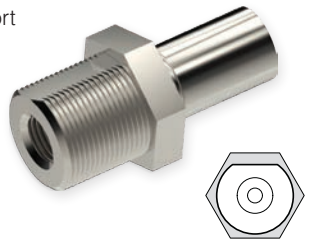
Thread	3/8-24 UNF port
Seat type	inverted
Mount thread	5/8-18 UNF
Hex	19 mm
Overall length	45 mm

HFIFX11

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

HFIFX14

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



HFIFX15

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

/// 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	19 mm
Overall length	45 mm

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	19 mm
Overall length	45 mm

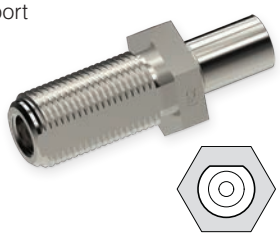
Low profile	LPIFX01 *
**LP stem*	*LPS-LI-SAE*

HFIFX06

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

HFIFX07

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



HFIFX12

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

HFIFX16

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

HFIFX19

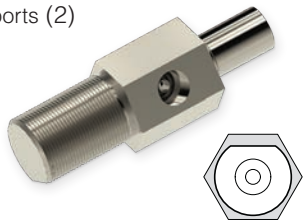
Thread	7/16-24 UNS port
Seat type	inverted
Mount thread	7/8-14 UNF
Hex	1"
Overall length	61 mm

IMPERIAL FEMALE *CONTINUED*

Inverted seat

HFIFX21

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



Secure with BQ89 nut.

HFIFX22

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

HFIFX23

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

BULKHEAD MOUNT 1/2-20 UNF

Inverted seat

HFIFX09

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

/// Bulkhead nuts are on page 148.

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

CLIP MOUNT 3/8-24 UNF

Drill-point seat

HFIF21

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

IMPERIAL FEMALE *CONTINUED*

Inverted seat

HFIF01

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

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

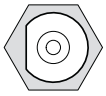
HFIF01B

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

brass

HFIF05

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



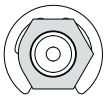
Low profile	LPIF05*
**LP stem*	*LPS-SI-SAE*
Alternative	HFIF45

HFIF07

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

HFIF08

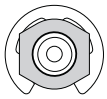
Thread	3/8-24 UNF port
Seat type	inverted
Flats	16 mm
Overall length	41 mm



HFIF10

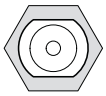
Thread	3/8-24 UNF port
Seat type	inverted
Flats	16 mm
Overall length	39 mm

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



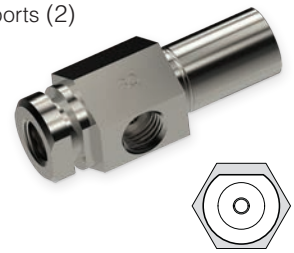
HFIF11

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



HFIF14

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



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

IMPERIAL FEMALE *CONTINUED*

Inverted seat

HFIF18

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

HFIF19

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

HFIF26

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

HFIF32

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

HFIF36

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

Stainless	HFIF36SS
Alternative	HFIF01

HFIF38

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

HFIF40

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

HFIF45

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

Alternative	HFIF05

HFIF71

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

HFIF72

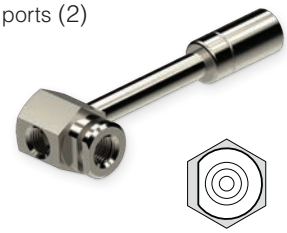
Thread	3/8-24 UNF port
Seat type	inverted
Hex	17 mm
Overall length	47 mm

IMPERIAL FEMALE *CONTINUED*

Inverted seat

HFIF74

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

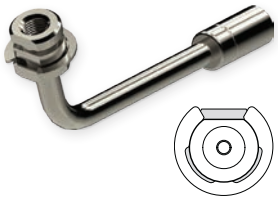


HFIF83

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

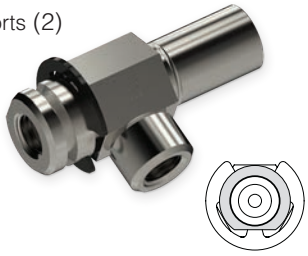
HFIF85

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



HFIF87

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



HFIF103

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

HFIF106

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

HFIF140

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

HFIF143

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

HFIF301

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

HFIF334B

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

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	16 mm
Overall length	46 mm

HFIF172

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

CLIP MOUNT 7/16-24 UNS

Inverted seat

HFIF02

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

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

HFIF09

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

HFIF20

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

HFIF24

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

Alternative	HFIF02

HFIF33

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

HFIF35

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

IMPERIAL FEMALE *CONTINUED*

Inverted seat

HFIF51

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

HFIF73

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

HFIF116

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

HFIF142

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

CLIP MOUNT 1/2-20 UNF

Inverted seat

HFIF79

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

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

STANDARD 1/2-20 UNF

Drill-point seat

HFIF03

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

Inverted seat

HFIF06

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

METRIC FEMALE

BOLT MOUNT M10×1

Drill-point seat

HFMF50

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

HFMF328

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

Inverted seat

HFMF18

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

HFMF48

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

Low profile LPMF48

HFMF69

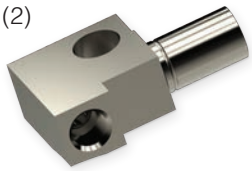
Thread	M10×1 port
Seat type	inverted
Mount hole	6.4mm
Overall length	62mm

BOLT MOUNT M11×1.5

Inverted seat

HFMF79

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



METRIC FEMALE *CONTINUED*

BRACKET MOUNT M10×1

Drill-point seat

HFMF40

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

HFMF70

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

HFMF90

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

HFMF364

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

left

Right pair HFMF365

HFMF365

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

right

Left pair HFMF364

HFMF371

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

HFMF380

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

Inverted seat

HFMF317

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

HFMF324

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

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

METRIC FEMALE *CONTINUED*

Inverted seat

HFMF325

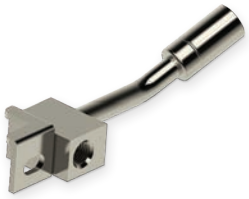
Thread	M10×1 port
Seat type	inverted
Mount hole	9.1 mm
Overall length	45 mm

HFMF326

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

HFMF342

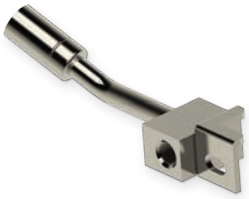
Thread	M10×1 port
Seat type	inverted
Bend	25°
Overall length	100 mm



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

Inverted seat

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

Inverted seat

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	19 mm
Overall length	46 mm

HFMF05

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

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

HFMF08

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

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

HFMF24

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

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

HFMF35

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

HFMF38

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

HFMF39

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

HFMF54

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

HFMF55

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

HFMF58

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

METRIC FEMALE *CONTINUED*

Drill-point seat

HFMF59

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

HFMF62

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

HFMF63

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

HFMF65

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

HFMF71

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

HFMF96

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

HFMF99

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

HFMF100

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

HFMF123

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

HFMF124

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

HFMF327

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

HFMF329

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

METRIC FEMALE *CONTINUED*

Drill-point seat

HFMF340

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

HFMF363

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

HFMF367

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

HFMF368

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

HFMF369

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

left

Right pair HFMF370

HFMF370

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

right

Left pair HFMF369

HFMF372

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

HFMF375

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

HFMF381

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

HFMF382

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

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

METRIC FEMALE *CONTINUED*

Drill-point seat

HFMF383

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

left

Right pair	HFMF384

HFMF384

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

right

Left pair	HFMF383

HFMF385

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

left

Right pair	HFMF386

HFMF386

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

right

Left pair	HFMF385

Inverted seat

HFMF01

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

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

HFMF02

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

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

HFMF04

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

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

HFMF06

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

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

METRIC FEMALE *CONTINUED*

Inverted seat

HFMF11

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

Low profile	LPMF11 *
**LP stem*	*LPS-SI-SAE*

HFMF14

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

Low profile	LPMF14 *
**LP stem*	*LPS-SI-SAE*

HFMF15

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

Low profile	LPMF15

HFMF16

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

Low profile	LPMF16 *
**LP stem*	*LPS-SI-SAE*

HFMF20

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

Low profile	LPMF20 *
**LP stem*	*LPS-SI-SAE*

HFMF26

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

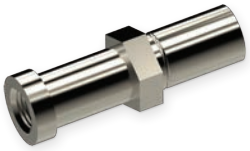
HFMF28

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

Low profile	LPMF28 *
**LP stem*	*LPS-SI-SAE*

HFMF29

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



HFMF31

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

HFMF93

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

METRIC FEMALE *CONTINUED*

Inverted seat

HFMF120

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

Left pair HFMF121

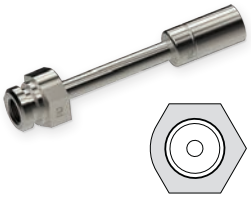
HFMF121

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

Right pair HFMF120

HFMF308

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



HFMF366

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

HFMF393

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

Low profile LPMF15

CLIP MOUNT M10×1.25

Inverted seat

HFMF09

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

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

Drill-point seat

HFMF21

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

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

METRIC FEMALE *CONTINUED*

CLIP MOUNT M10×1.5

Inverted seat

HFMF128

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

HFMF132

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

HFMF397

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

CLIP MOUNT M12×1

Drill-point seat

HFMF47

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

Low profile LPMF47Z

HFMF51

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

HFMF191

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

Inverted seat

HFMF07

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

HFMF10

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

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

METRIC FEMALE *CONTINUED*

Inverted seat

HFMF19

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

HFMF42

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

HFMF43

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

HFMF91

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

HFMF92

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

CLIP MOUNT M12×1.25

Drill-point seat

HFMF57

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

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

METRIC FEMALE *CONTINUED*

SPLINE MOUNT M10×1

Drill-point seat

HFMF22

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

HFMF27

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

BULKHEAD MOUNT M10×1

Drill-point seat

HFMFX04

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

HFMFX04-M16

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

Inverted seat

HFMFX01

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

BULKHEAD MOUNT M10×1.25

Inverted seat

HFMFX02

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

BULKHEAD MOUNT M12×1

Drill-point seat

HFMFX10

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

/// 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	12.2 mm
Hex	14 mm
Overall length	42 mm

Low profile	LPIM28-6

JIC MALE 7/16-20 UNF

HFIM29

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

Low profile	LPIM29-7

BOLT MOUNT 1/8-27 NPT

HFIM30

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

BULKHEAD MOUNT 3/8-24 UNF

HFIM02

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

Low profile	LPIM02-6
LP stainless	LPIM02-6SS

HFIM05

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

HFIM12

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

/// 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	23mm
Hex	15mm
Overall length	51mm

Low profile LPMM02-M10X1

HFMM18

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

HFMM20

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

BULKHEAD MOUNT M10×1.25

HFMM11

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

HFMM21

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

BULKHEAD MOUNT M12×1

HFMM09

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

BULKHEAD MOUNT M12×1.5

HFMM10

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

/// Bulkhead nuts are on page 148.

METRIC MALE *CONTINUED*

CLIP MOUNT M10×1

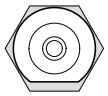
Not all clip mount fittings include an e-clip. Refer to each fitting's image to see if a clip is included.

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	13mm
Hex	16mm
Overall length	41mm

Low profile LPMM04-M10X125

STANDARD M10×1.5

HFMM24

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

STANDARD M12×1

HFMM05

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

HFMM13

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

STANDARD M12×1.25

HFMM17

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

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	9 mm
Width	55 mm
Overall length	50 mm
Left pair	HFC321

right

HFC325

Mount hole	8.5 mm
Width	40 mm
Overall length	42 mm
Left pair	HFC322

right

HFC326

Mount hole	8.5 mm
Width	45 mm
Overall length	48 mm
Left pair	HFC323

right

HFC338

Mount hole	9 mm
Width	18 mm
Overall length	53 mm
Right pair	HFC339

left

HFC339

Mount hole	9 mm
Width	18 mm
Overall length	53 mm
Left pair	HFC338

right

HFC341

Mount hole	9 mm
Width	23 mm
Overall length	29 mm

HFC342

Mount hole	9 mm
Width	23 mm
Overall length	29 mm

HFC343

Mount hole	8.5 mm
Width	40 mm
Overall length	37 mm
Right pair	HFC344

left

HFC344

Mount hole	8.5 mm
Width	40 mm
Overall length	37 mm
Left pair	HFC343

right

HFC345

Mount hole	10 mm
Width	100 mm
Overall length	44 mm
Right pair	HFC346

HFC346

Mount hole	10 mm
Width	100 mm
Overall length	44 mm
Left pair	HFC345

HFC347

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

CENTER SUPPORT *CONTINUED*

HFC348

Mount nut	M8 × 1.25
Width	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

left

Right pair HFC352

HFC352

Mount hole	9.5 mm
Width	90 mm
Overall length	24 mm

right

Left pair HFC351

HFC353

Mount hole	8.5 mm
Width	24 mm
Overall length	73 mm

left

Right pair HFC354

HFC354

Mount hole	8.5 mm
Width	24 mm
Overall length	73 mm

right

Left pair HFC353

HFC355

Mount hole	10 mm
Width	20 mm
Overall length	40 mm

left

Right pair HFC356

HFC356

Mount hole	10 mm
Width	20 mm
Overall length	40 mm

right

Left pair HFC355

HFC357

Mount hole	10 mm
Width	88 mm
Overall length	50 mm

left

Right pair HFC358

HFC358

Mount hole	10 mm
Width	88 mm
Overall length	50 mm

right

Left pair HFC357

HFC359

Mount hole	9 mm
Width	25 mm
Overall length	60 mm

left

Right pair HFC360

HFC360

Mount hole	9 mm
Width	20 mm
Overall length	25 mm

right

Left pair HFC359

CENTER SUPPORT *CONTINUED*

HFC361

Mount nut	M6 × 1
Width	35 mm
Overall length	53 mm
Right pair	HFC362

HFC362

Mount nut	M6 × 1
Width	35 mm
Overall length	53 mm
Left pair	HFC361

HFC365

Mount hole	9 mm
Width	35 mm
Overall length	42 mm
Right pair	HFC366

HFC366

Mount hole	9 mm
Width	35 mm
Overall length	42 mm
Left pair	HFC365

HFC367

Mount hole	10 mm
Width	40 mm
Overall length	42 mm
Right pair	HFC368

HFC368

Mount hole	10 mm
Width	40 mm
Overall length	42 mm
Left pair	HFC367

HFC369

Mount hole	7 mm
Width	30 mm
Overall length	58 mm
Right pair	HFC370

HFC370

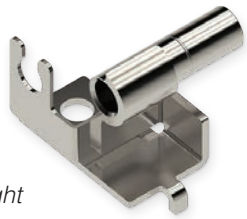
Mount hole	7 mm
Width	30 mm
Overall length	58 mm
Left pair	HFC369

HFC371

Mount hole	10 mm
Width	33 mm
Overall length	55 mm
Right pair	HFC372

HFC372

Mount hole	10 mm
Width	33 mm
Overall length	55 mm
Left pair	HFC371



HFC373

Mount hole	8 mm
Width	45 mm
Overall length	75 mm
Right pair	HFC374

HFC374

Mount hole	8 mm
Width	45 mm
Overall length	75 mm
Left pair	HFC373

CENTER SUPPORT *CONTINUED*

HFC379

Mount hole	10 mm
Width	34 mm
Overall length	50 mm
Right pair	HFC380

HFC380

Mount hole	10 mm
Width	34 mm
Overall length	50 mm
Left pair	HFC379

HFC381

Mount hole	10 mm
Width	35 mm
Overall length	69 mm
Right pair	HFC382

HFC382

Mount hole	10 mm
Width	35 mm
Overall length	69 mm
Left pair	HFC381

CLIP MOUNT

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

HFC01

Hex	17 mm
Width	17 mm
Overall length	33 mm
Low profile	LPC01

HFC02

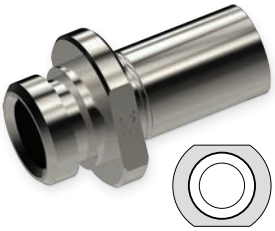
Hex	17 mm
Width	17 mm
Overall length	34 mm

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 9 mm

BQB04

Mount hole 8.4 mm

BQB06

Mount hole 5 mm

BQB244

Mount hole 6.8 mm

BQB259

Mount hole 8.8 mm
Hex hole 16 mm

BQB315

Mount hole 10 mm

Right pair BQB316

left

BQB316

Mount hole 10 mm

Left pair BQB315

right

BQB317

Mount hole 9 mm

Right pair BQB318

left

BQB318

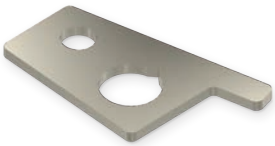
Mount hole 9 mm

Left pair BQB317

right

BQB319

Mount hole 9 mm



/// Retaining clips are on page 150.

BRACKETS *CONTINUED*

FITTING BRACKETS ATTACH WITH SCREWS

BQB05
Mount hole 9 mm

BQB07
Mount hole 12.4 mm

BQB10
Mount hole 9.6 mm

Right pair BQB11

left

BQB11
Mount hole 9.6 mm

Left pair BQB10

right

BQB14
Mount hole 8.6 mm

Right pair BQB15

left

BQB15
Mount hole 8.6 mm

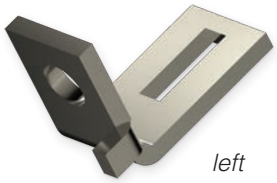
Left pair BQB14

right

BQB20
Mount hole 9 mm

BQB24
Mount hole 8.8 mm

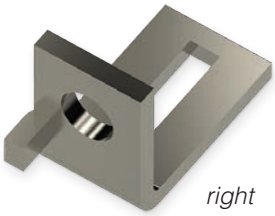
Right pair BQB25



left

BQB25
Mount hole 8.8 mm

Left pair BQB24



right

BQB26
Mount hole 7 mm

BQB29
Mount hole 9.6 mm

BQB30
Mount hole 10.4 mm

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

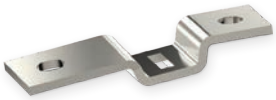
BQB83

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 10.4 mm

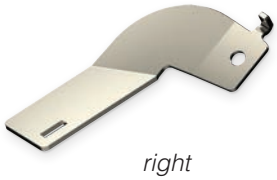
BQB90
Mount hole 9 mm

Right pair BQB91

left

BQB91
Mount hole 9 mm

Left pair BQB90



right

BQB105
Mount hole 9 mm

BQB111
Mount hole 8.8 mm / 8.8 mm × 12 mm

Right pair BQB112

left

BQB112
Mount hole 8.8 mm / 8.8 mm × 12 mm

Left pair BQB111

right

BQB115
Mount hole 9.6 mm

BQB118
Mount hole 9.4 mm

BQB119
Mount hole 9.2 mm

Right pair BQB120

left

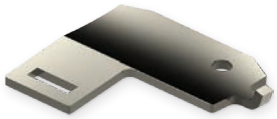
BQB120
Mount hole 9.2 mm

Left pair BQB119

right

BQB151
Mount hole 6.4 mm

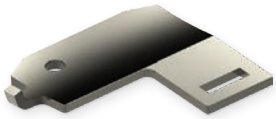
Left pair BQB152



right

BQB152
Mount hole 6.4 mm

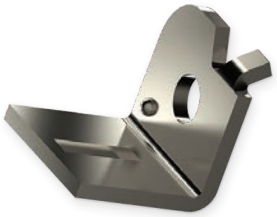
Right pair BQB151



left

BRACKETS *CONTINUED*

BQB166
Mount hole 9 mm



BQB171
Mount hole 8.2 mm

BQB185
Mount hole 16.3 mm

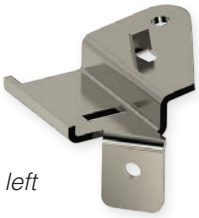
Left pair BQB186

BQB186
Mount hole 16.3 mm

Right pair BQB185

BQB312
Mount hole 6.3 mm

Right pair BQB313

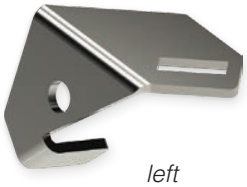


BQB313
Mount hole 6.3 mm

Left pair BQB312

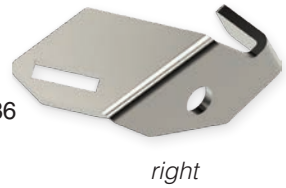
BQB336
Mount hole 7.5 mm

Right pair BQB337



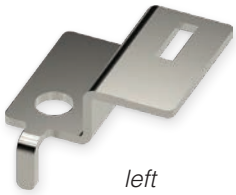
BQB337
Mount hole 7.5 mm

Left pair BQB336



BQB338
Mount hole 10 mm

Right pair BQB339



BQB339
Mount hole 10 mm

Left pair BQB338

BQB415
Hole 5/16"

Wire bracket, designed for HFIF120.

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

BRACKETS *CONTINUED*

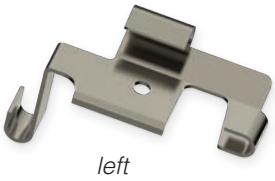
CENTER BRACKETS

BQB08
Mount hole 8.8 mm

Left pair BQB09

BQB09
Mount hole 8.8 mm

Right pair BQB08



BQB18
Mount hole 8.9 mm

Right pair BQB19

BQB19
Mount hole 8.9 mm

Left pair BQB18

BQB23
Mount hole 8.8 mm

BQB35
Mount nut M6 × 1

BQB36
Mount hole 8.4 mm

Right pair BQB37

BQB37
Mount hole 8.4 mm

Left pair BQB36

BQB38
Mount thread 5/16-18 UNF

BQB48
Mount hole 6.4 mm

BQB52
Mount hole 9.2 mm

BQB69
Mount nut M8 × 1.25

BRACKETS *CONTINUED*

BQB72

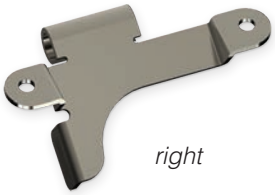
Mount hole 6.9 mm

Right pair BQB73

BQB73

Mount hole 6.9 mm

Left pair BQB72



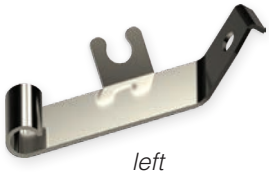
BQB85

Mount hole 9.2 mm

BQB109

Mount hole 10 mm × 7 mm

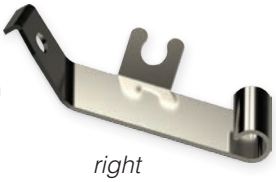
Right pair BQB110



BQB110

Mount hole 10 mm × 7 mm

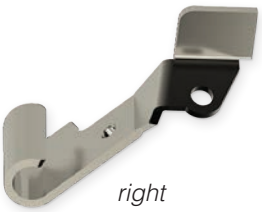
Left pair BQB109



BQB162

Mount hole 6.4 mm / 5 mm

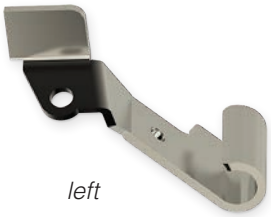
Left pair BQB163



BQB163

Mount hole 6.4 mm / 5 mm

Right pair BQB162



BQB168

Mount nut M6 × 1

BQB169

Mount hole 9 mm

BQB257

Mount hole 8.5 mm

BQB258

Mount hole 8.7 mm

BQB284

Mount hole 7 mm / 6.2 mm

Left pair BQB285

BQB285

Mount hole 7 mm / 6.2 mm

Right pair BQB284

BRACKETS *CONTINUED*

CENTERS WITH GROMMET

The following center brackets include the BQ234 grommet pictured.

BQB31

Mount hole 8.6 mm

BQB174

Mount hole 9 mm

Left pair BQB195

right

BQB195

Mount hole 9 mm

Right pair BQB174

left

BQB221

Mount hole 9 mm

BQB222

Mount hole 9 mm

Left pair BQB223

right

BQB223

Mount hole 9 mm

Right pair BQB222

left

BQB224

Mount hole 9 mm

Left pair BQB225

right

BQB225

Mount hole 9 mm

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
- 8 mm hole 113
- 10 mm hole 113

Round Banjo
- 10 mm hole 114
- 11 mm 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

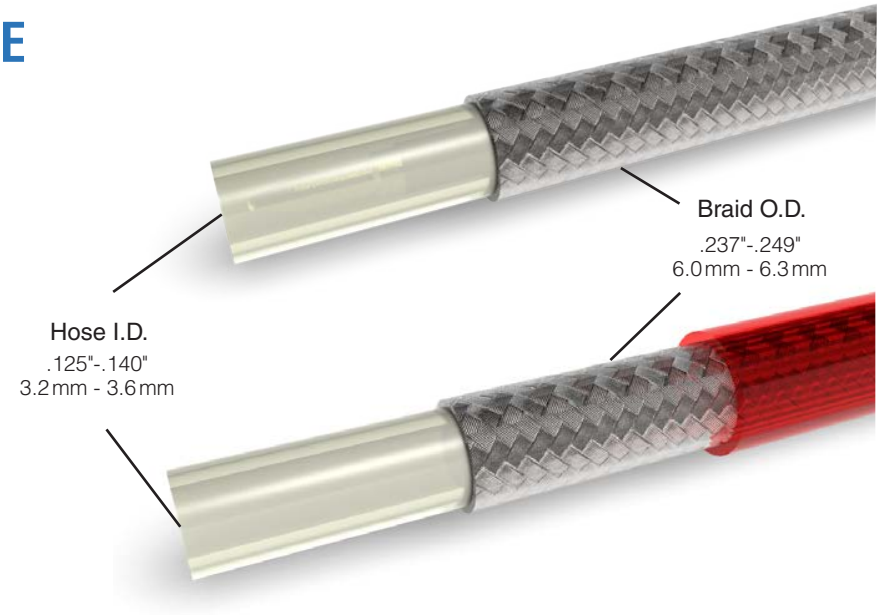
BRAIDED BRAKE HOSE

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

wire-lock

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

Standard	HF09W
LP chrome	LP09W-6C

LP10W-6

wire-lock

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

wire-lock

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

wire-lock

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

wire-lock

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	69.5 mm

Standard	HF82
LP zinc-nickel	LP82-M10X1Z

LP125

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

Standard	HF158

LP126

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

LP127

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

MALE SWIVEL M10×1.25

LP145-M10X125

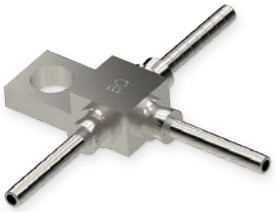
Thread	M10×1.25
Flare	45° double
Bend	straight
Tube size	3/16"
Overall length	71.2 mm

CRIMP TEE

LP124

Mount hole	8 mm

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 105 mm

Standard	HF02

LP03

Tube size 1/4"
Overall length 105 mm

Standard	HF03

/// Instructions for using universal fittings can be found in the hose assembly manual.

CLUTCH

LP156

Standard	HF114

O-Ring included.

GENERAL FITTINGS *CONTINUED*

STEMS FEMALE SEAT

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

STEMS TUBE STYLE

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

TUBE NUTS FOR LOW PROFILE STEMS

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

/// Learn how to assemble low profile fittings in the hose assembly manual.

BLOCK BANJO

10 MM HOLE

LPB12-10M

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

Standard	HFB12

LPB14

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

Standard	HFB14

LPB493-10M

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

left

Standard	HFB493
Right pair	LPB494-10M

LPB494-10M

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

right

Standard	HFB494
Left pair	LPB493-10M

ROUND BANJO

8 MM HOLE

LPB27-8M

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

bendable to 45°

Standard	HFB27

ROUND BANJO *CONTINUED*

10 MM HOLE 17 MM WIDTH

LPB01-10M

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

bendable to 45°

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

LPB01-20-10M

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

LPB01-45-10M

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

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

LPB01-75-10M

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

LPB01-90-10M

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

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

LPB455-10M

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

Standard	HFB194

ROUND BANJO *CONTINUED*

LPB653

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

side bend

LPB654

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

side bend

LPB655

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

side bend

10 MM HOLE 18 MM WIDTH

LPB09-10M

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

bendable to 45°

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

LPB656

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

side bend

ROUND BANJO *CONTINUED*

LPB657

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

side bend

LPB658

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

side bend

11 MM HOLE

LPB178-7

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

LP chrome	LPB178-7C

12 MM HOLE

LPB47-12M

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

bendable to 45°

Standard	HFB47
Stainless	HFB47SS

7/16" HOLE

LPB448-7

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

bendable to 45°

Standard	HFB448
LP stainless	LPB448-7SS

LPB448-45-7

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

LPB448-90-7

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

Standard	HFB681

LPB652

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

side bend

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

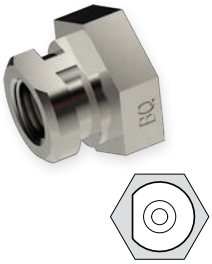
Standard	HFIF01
Brass	HFIF01B
Stainless	HFIF01SS
Alternative	LPIF01-6 *
** LP stem*	*LPS-SI-SAE*

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

zinc-nickel

BOLT MOUNT M10×1

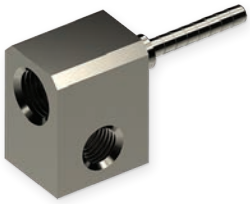
LPMF48

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

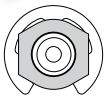
LPMF01-M10X1

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

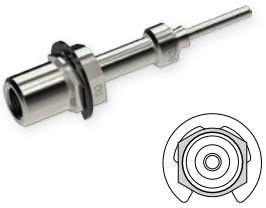
METRIC FEMALE *CONTINUED*

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	23mm
Hex	15mm
Overall length	55.2mm

Standard	HFMM02

STANDARD MOUNT M10×1

LPMM01-M10X1

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

Standard	HFMM01

LPMM03-M10X1

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

Standard	HFMM03
LP zinc-nickel	LPMM03-M10X1Z

LPMM06-M10X1

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

Standard	HFMM06
Stainless	HFMM06SS

LPMM22Z

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

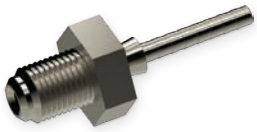
zinc-nickel

Standard	HFMM22

STANDARD MOUNT M10×1.25

LPMM04-M10X125

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



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

LPC17

Width	16 mm
Flats	16 mm
Overall length	37 mm

Standard	HFC17

LPC301

Width	20 mm
Overall length	33 mm

Standard	HFC301A
LP zinc-nickel	LPC301Z

LPC331

Width	20 mm
Flats	17 mm
Overall length	35 mm

Standard	HFC331

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

POWER STEERING

Hose

High-pressure Hose 124

Low-pressure Hose 124

Accessories

Restrictor Tube 125

Bump Tube Adapters 125

Braze-on Fittings 125

Fittings

Banjo 126

Female Swivel 126

Male Swivel 127

Metric Female 128

Metric Male 128

Center Support 129

Universal 129

Braze-on Lifesaver 129

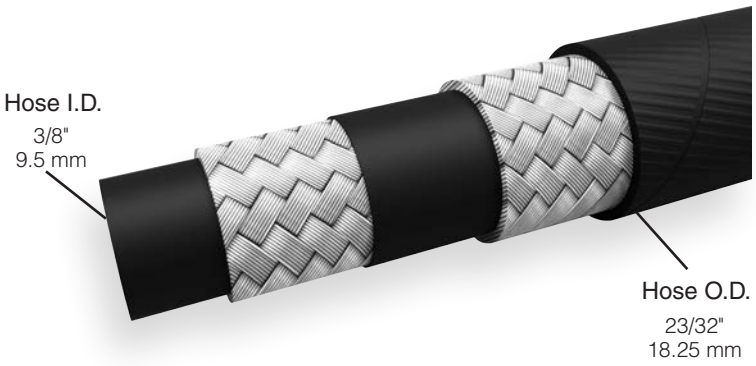
Compression 129

HOSE

HIGH PRESSURE

High Pressure Power Steering Hose, Rubber
PS330

Carriers	24
Wires per Carrier	4
Hose Wall	0.067" / 1.7 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

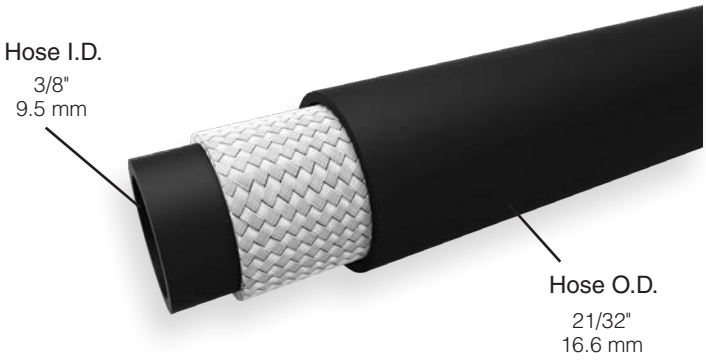


Compatible with petroleum based power steering and transmission oils.

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



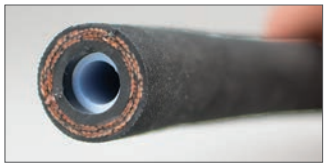
Compatible with petroleum based oils.

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"	37.4 mm	5MBT-5MJ
9/16-18 UNF (-06 JIC)	11/16-18 UNS	3/4"	41.9 mm	7MBT-6MJ
9/16-18 UNF (-06 JIC)	M14 × 1.5	5/8"	38.8 mm	14MMBT-6MJ
9/16-18 UNF (-06 JIC)	M16 × 1.5	17 mm	38.9 mm	16MMBT-6MJ
9/16-18 UNF (-06 JIC)	M18 × 1.5	3/4"	39.4 mm	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)	18 mm	32.1 mm	16MMORB-6MJ

Female to O-ring Pilot

O-ring pilot includes a high-temperature Viton 0-ring.

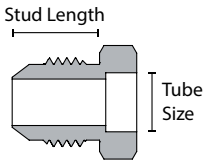
Port Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
5/8-18 UNF	M16 × 1.5	3/4"	30.8 mm	16MMBT-6FI

/// 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"	14.1 mm	5/8"	Aluminum	BQ170
9/16-18 UNF	-06 JIC	3/8"	14.1 mm	5/8"	Steel	BQ226
9/16-18 UNF	-06 JIC	1/2"	14.1 mm	11/16"	Steel	BQ228
9/16-18 UNF	-06 JIC	10 mm	14.1 mm	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	14mm
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	Part Number
1/4" quick connect to 8 mm FuelFlex - straight	FL05-4
5/16" quick connect to 8 mm FuelFlex - straight	FL03-5
3/8" quick connect to 3/8" quick connect - straight	FL04-6
3/8" quick connect to 10 mm FuelFlex - straight	FL03-6

FUELFLEX CONNECTORS

Description	Part Number
8 mm FuelFlex to 8 mm FuelFlex - 90°	FL20-5
10 mm FuelFlex to 10 mm FuelFlex - 90°	FL20-6

FUELFLEX REDUCERS

Description	Part Number
8 mm FuelFlex to 1/4" FuelFlex	FL06-5-4
10 mm FuelFlex to 8 mm FuelFlex	FL06-6-5

FUELFLEX TO RUBBER HOSE

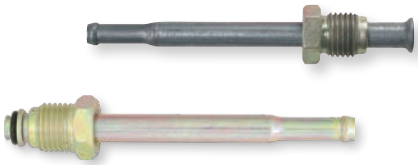
Description	Part Number
8 mm FuelFlex to 5/16" rubber hose	FL02-5
10 mm FuelFlex to 3/8" rubber hose	FL02-6

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 *steel*
10 mm FuelFlex	M16×1.5	bump	FL10-6S *steel*
8 mm FuelFlex	M14×1.5	inverted	FL10-14MM *brass*

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 *brass*
8 mm FuelFlex — 8 mm FuelFlex	FL37 *brass*
10 mm FuelFlex — 3/8" metal tube	FL38 *brass*
10 mm FuelFlex — 10 mm FuelFlex	FL39 *brass*

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
TUBING	
T8-FF	25 ft
T10-FF	25 ft
QUICK CONNECTS	
FL08-4-5	2
FL08-5-5	2
FL08-5-6	2
FL08-6-5	2
FL08-6-6	2
FL09-5-5	2
FL09-5-6	2
FL09-6-5	2
FL09-6-6	2
QUICK CONNECTOR TUBES	
FL03-5	2
FL03-6	2
FL04-6	2
FL05-4	2
FUELFLEX CONNECTORS	
FL20-5	2
FL20-6	2

Part Number	Qty
FUELFLEX REDUCERS	
FL06-6-5	2
FUELFLEX ADAPTERS	
FL02-5	2
FL02-6	2
THEADED CONNECTORS	
FL07-5	2
FL07-6	2
FL11-14MM	2
FL12-14MM	2
FL13-5	2
FL13-6	2
FL14-5	2
FL14-6	2
FL15	1
FUELFLEX UNIONS	
FL01-5	2
FL01-6	2
MALE-FEMALE ADAPTERS	
FL10-5S	1
FL10-6S	1
FL10-14MM	1

Part Number	Qty
COMPRESSION FITTINGS	
FL36	2
FL37	2
FL38	2
FL39	2
BUMP TUBE NUTS	
BQ9148	4
BQ9149	4
SCREWS AND CLAMPS	
BQ811	20
FL25	20
FL26	20
FL34	20
FL35	20
TOOLS	
BQ318	1
BQ319	1
BQ-01	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

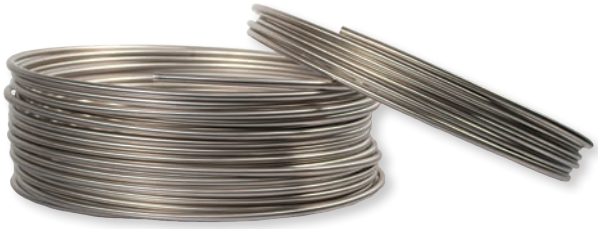
Marine-grade stainless steel tubing has a high-level of corrosion protection. 316L contains molybdenum, a corrosion resistor that is not found in 304 stainless.

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 10 ft sections.

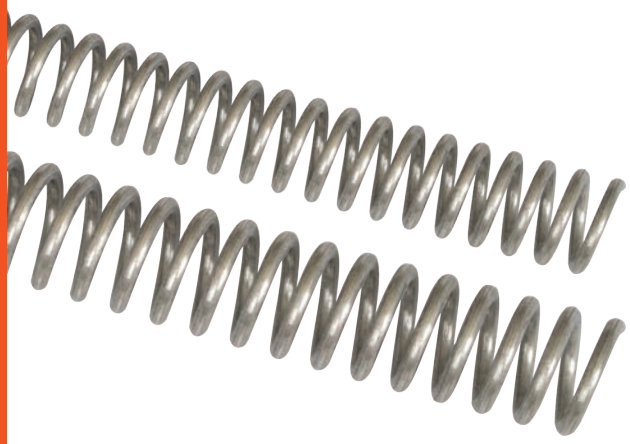
Inner Diameter	Outer Diameter	Part Number
1/4"	7/16"	BQ320
5/16"	1/2"	BQ321
3/8"	9/16"	BQ322

1/4" Remote Reservoir Hose
BQ320

TUBE PROTECTORS

Spring Guard

Inner Diameter	Length	Material	Part Number
3/16"	3 ft	Stainless steel	BQ231
1/4"	3 ft	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

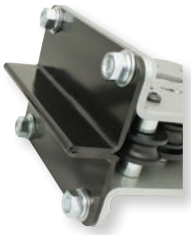
Replacement wheel
BQ1028-75

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)



Vice-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)

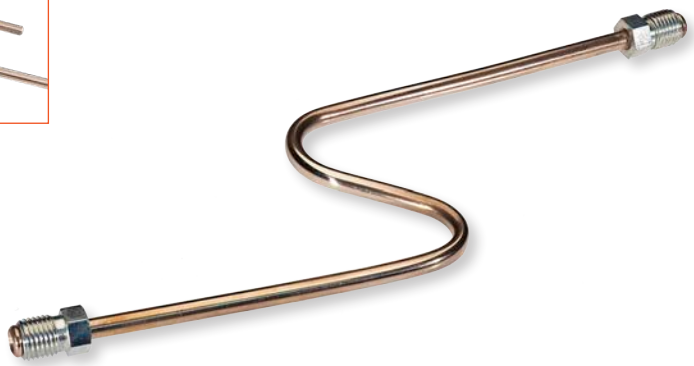
One side of the tool end is flat to facilitate cutting.

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

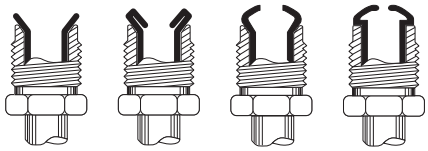


TUBING TOOLS *CONTINUED*

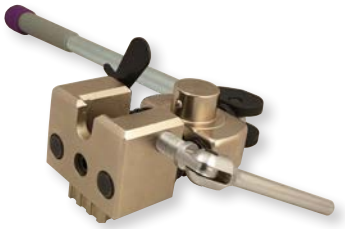
FLARING TOOLS

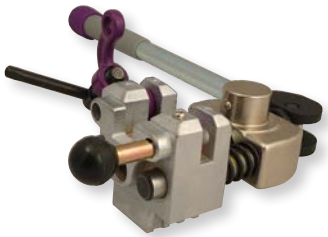
These flaring tools are designed to be used in a bench vise or with our table flange mount (BQ350-1).

- 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	Standard Series		
45° flares	3/16", 1/4", 5/16", 3/8" 4.75 mm, 6 mm, 8 mm, 10 mm	3/16", 1/4", 5/16", 3/8", 1/2" 4.75 mm, 6 mm, 8 mm, 10 mm	3/16", 1/4", 5/16" 3/8", 1/2"	—
37° flares	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"
DIN flares	3/16", 1/4"	3/16", 1/4"	3/16"	—
Part Number	**BQ350A**	**BQ350**	**BQ351**	**BQ352**

"A" Series Features:

- *Die-cast steel body*
- *Extra-long handle*
- *Tube-setting tab*
- *Die-clamp bolt*
- *Mounting flange*

37° Turret and Dies
for BrakeQuip flaring tool
BQ352-BQ

37° Turret and Dies
for Sykes Pickavant 270
BQ352-SP

TUBING TOOLS *CONTINUED*

CUTTERS

These tube cutters have a heavy-duty wheel to cut 3/16" to 5/8" stainless steel or other light-walled tubing.

Professional Tube Cutter

BQ602

Replacement blade
BQ602C

Mini Tube Cutter

BQ601

LINE STOPPERS

Line Stopper Kits prevent leaks and contamination during service.

4-Piece Stopper Kit

BQ407

The 5/16" stopper in the 4-Piece Stopper Kit *is also suitable for 3/16" and 1/4" lines.*

Stopper Size	4-Piece Qty	8-Piece Qty
3/16"–1/4"	—	2
5/16"	1	2
3/8"	1	1
1/2"	1	1
Banjo	1	2

8-Piece Stopper Kit

BQ408

BQ408 comes in slide-lock clamshell case.

TUBING TOOLS *CONTINUED*

TOOL KITS

Thread Identification Kit

BQ2100

The Thread Identification Kit has gauges for the vast majority of brake plumbing threads, both male and female. Gauges are color-coded for fast selection. The threads are hardened for long life. The gauges can also be used to block-off fluid ports during service.

Imperial Sizes	Metric Sizes
3/8-20 BSF	M9 × 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

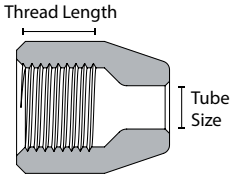
Filler Wire Replenishment Kit
BQ2200W

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

HARDWARE

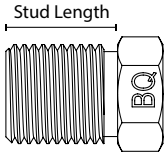
TUBE NUTS

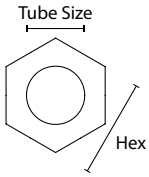
Female Imperial



Thread	Tube Size	Thread Length	Seat	Hex	Part Number
3/8-24 UNF	3/16"	7.5 mm	37°	7/16"	BQ55
3/8-24 UNF	3/16"	5.6 mm	45°	7/16"	BQ9176
7/16-20 UNF	1/4"	5.8 mm	37°	9/16"	BQ57
1/2-20 UNF	5/16"	10 mm	45°	5/8"	BQ9177
9/16-18 UNF	3/8"	7.5 mm	37°	11/16"	BQ9201
9/16-18 UNF	3/8"	8.6 mm	45°	11/16"	BQ9239
9/16-18 UNF	3/8"	6.1 mm	o-ring pilot	5/8"	BQ9207
5/8-18 UNF	3/8"	8.6 mm	45°	13/16"	BQ9219

Male Imperial





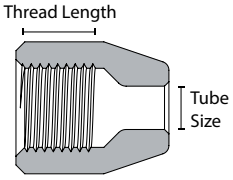
Thread	Tube Size	Stud Length	Flare	Hex	Part Number
3/8-20 BSF	3/16"	14 mm	45°	3/8"	BQ4276
3/8-24 UNF	3/16"	9.1 mm	45°	3/8"	BQ5555
3/8-24 UNF	3/16"	9.1 mm	45°	3/8"	BQ5555B *brass*
3/8-24 UNF	3/16"	9.1 mm	45°	3/8"	BQ5555SS *stainless*
3/8-24 UNF	3/16"	17 mm	45°	3/8"	BQ4285
7/16-20 UNF	3/16"	17.5 mm	45°	11 mm	BQ6118
7/16-20 UNF	1/4"	18 mm	45°	7/16"	BQ4277
7/16-24 UNS	3/16"	9.1 mm	45°	11 mm	BQ5842
7/16-24 UNS	3/16"	9.1 mm	45°	11 mm	BQ5842SS *stainless*
7/16-24 UNS	1/4"	12.5 mm	45°	7/16"	BQ2577
7/16-24 UNS	1/4"	12.5 mm	45°	7/16"	BQ2577SS *stainless*
1/2-20 UNF	3/16"	10.2 mm	45°	1/2"	BQ9184
1/2-20 UNF	1/4"	14 mm	45°	1/2"	BQ9187
1/2-20 UNF	5/16"	10.2 mm	45°	1/2"	BQ2578
9/16-18 UNF	3/16"	14 mm	45°	9/16"	BQ9185
9/16-18 UNF	1/4"	14 mm	45°	9/16"	BQ9186
5/8-18 UNF	3/8"	10.2 mm	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*

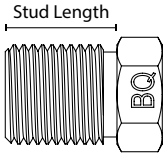
Female Metric

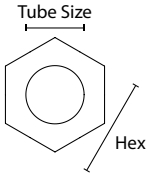
Thread	Tube Size	Thread Length	Seat	Hex	Part Number
M10×1	3/16"	9mm	45°	13mm	BQ9175
M12×1	3/16"	9mm	45°	16mm	BQ9174
M12×1	1/4"	9mm	45°	16mm	BQ9179
M12×1.25	1/4"	8mm	45°	16mm	BQ9156
M12×1.5	1/4"	9mm	45°	16mm	BQ9178
M14×1.5	10mm	10.9mm	37°	17mm	BQ9208
M16×1.5	10mm	10.9mm	37°	19mm	BQ9209
M16×1.5	3/8"	11mm	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 *stainless*
M10×1	3/16"	14mm	45°	11mm	BQ4511LT *long thread*
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 *stainless*
M12×1	1/4"	14.6mm	45°	13mm	BQ4513LT *long thread*
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

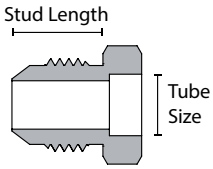
BQ252

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"	12.2 mm	-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	10 mm	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

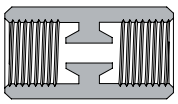
HARDWARE *CONTINUED*

FEMALE UNIONS

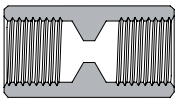
Imperial

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 *brass*
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 *stainless*
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



Bubble or DIN



Metric

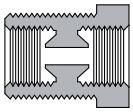
Thread	Seat	Hex	Overall Length	Part Number
M10 × 1	45°	13 mm	24 mm	BQ117
M10 × 1	DIN	13 mm	25 mm	BQ114
M12 × 1	45°	16 mm	25 mm	BQ116
M12 × 1	DIN	16 mm	27 mm	BQ147

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.

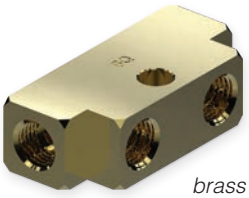


/// Female Unions Assortment Kit, **BQ7009**, is on page 158.

Tandem Trailer Fittings

BQ4700B

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

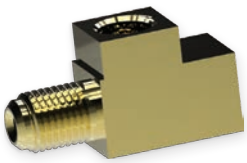


brass

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	16 mm
Overall length	44 mm

BQ292

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

Stainless	BQ292SS

BQ293SS

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

stainless

Use with BQ78 nut.

BULKHEAD NUTS

Imperial

Thread	Hex Size	Thickness	Part Number
3/8-24 UNF	1/2"	5 mm	BQ78
7/16-20 UNF	5/8"	6 mm	BQ80
1/2-20 UNF	3/4"	6 mm	BQ83
5/8-18 UNF	15/16"	8 mm	BQ13
11/16-18 UNS	1"	8 mm	BQ77
3/4-16 UNF	1 1/16"	8 mm	BQ84
7/8-14 UNF	1 1/8"	8 mm	BQ75
7/8-18 UNS	1 1/8"	8 mm	BQ89

Metric

Thread	Hex Size	Thickness	Part Number
M10 × 1	13 mm	5 mm	BQ79
M12 × 1	19 mm	6 mm	BQ81
M12 × 1.5	19 mm	6 mm	BQ82
M16 × 1.5	22 mm	7 mm	BQ87
M18 × 1.5	25 mm	8 mm	BQ86
M20 × 1.5	27 mm	8 mm	BQ85

HARDWARE *CONTINUED*

TEES

Female Imperial

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
1/8-27 NPT	NPT	31.75 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 *brass*
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	BQ56ASS *stainless*
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

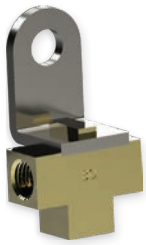
Thread	Dash Size	Diameter	Mount	Mount Hole	Thickness	Part Number
3/8-24 UNF	-03 JIC	31.75 mm	Bolt	8.2 mm	1/2"	BQ360
7/16-20 UNF	-04 JIC	31.75 mm	Bolt	8.2 mm	1/2"	BQ361

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

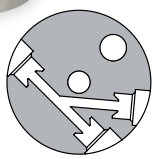
brass

Double Bolt Tee

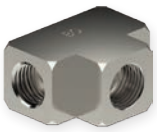
BQ177SS

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

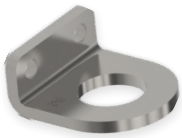
stainless

Clip - Toyota
BQ3053

Universal Brackets

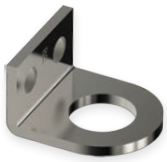
BQB06

Hole size	19 mm
Mount holes	5 mm



BQB244

Hole size	17 mm
Mount holes	6.8 mm



Bracket Retaining Screws
BQ71

pack of 50

Self-Drilling Screws
BQ811

pack of 20

Tube Clamps

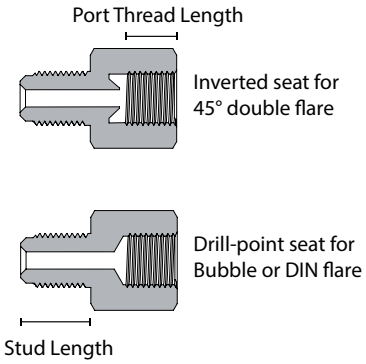
Tube size	Part Number
3/16"	BQ249
1/4"	BQ250
5/16"	FL35
3/8"	FL34

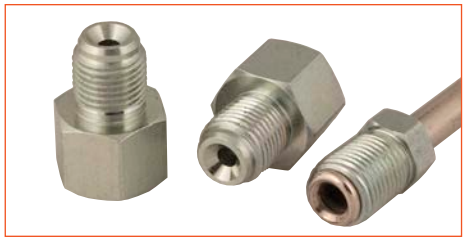
plastic

HARDWARE *CONTINUED*

THREAD ADAPTERS

Male-Female





When deciding if an adapter will work with a specific port, think of the Stud Fit as a "tube-size equivalent," in that the adapter will seat properly if the corresponding tube and tube nut would also seat properly.

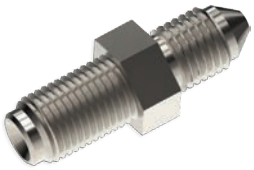
Port Thread	Stud Thread	Port Seat	Tube Size	Stud Length	Stud Fit	Hex	Part Number
1/8-27 NPT	3/8-24 UNF	NPT	-	11.2 mm	-	9/16"	BQ247
1/8-27 NPT	1/2-20 UNF	NPT	-	11 mm	-	9/16"	BQ248
1/8-27 NPT	M10 × 1.5	NPT	-	11 mm	-	9/16"	BQ187
3/8-24 UNF	1/8-27 NPT	45°	3/16"	NPT	3/16"	1/2"	BQ48
3/8-24 UNF	3/8-24 UNF	45°	3/16"	12 mm	3/16"	9/16"	BQ156
3/8-24 UNF	7/16-20 UNF	45°	3/16"	12 mm	3/16"	9/16"	BQ47
3/8-24 UNF	7/16-24 UNS	45°	3/16"	12 mm	3/16"	9/16"	BQ46
3/8-24 UNF	1/2-20 UNF	45°	3/16"	12 mm	3/16"	5/8"	BQ9300
3/8-24 UNF	1/2-20 UNF	45°	3/16"	12 mm	5/16"	5/8"	BQ120
3/8-24 UNF	9/16-18 UNF	45°	3/16"	12 mm	3/16"	11/16"	BQ124
3/8-24 UNF	9/16-18 UNF	Bubble	3/16"	12 mm	3/16"	11/16"	BQ262
3/8-24 UNF	9/16-20 UNS	45°	3/16"	12 mm	3/16"	11/16"	BQ121
3/8-24 UNF	M10 × 1	45°	3/16"	12.6 mm	3/16"	9/16"	BQ49
3/8-24 UNF	M10 × 1	Bubble	3/16"	12 mm	3/16"	13 mm	BQ125
3/8-24 UNF	M12 × 1	45°	3/16"	12 mm	3/16"	16 mm	BQ383
7/16-24 UNS	3/8-24 UNF	45°	1/4"	11.2 mm	3/16"	9/16"	BQ45
7/16-24 UNS	1/2-20 UNF	45°	1/4"	12 mm	3/16"	5/8"	BQ9301
7/16-24 UNS	1/2-20 UNF	45°	1/4"	12 mm	5/16"	5/8"	BQ122
7/16-24 UNS	9/16-18 UNF	45°	1/4"	12 mm	3/16"	11/16"	BQ123
1/2-20 UNF	3/8-24 UNF	45°	3/16"	12 mm	3/16"	11/16"	BQ9304
1/2-20 UNF	3/8-24 UNF	45°	5/16"	11.2 mm	3/16"	16 mm	BQ260
1/2-20 UNF	7/16-24 UNS	45°	5/16"	12 mm	1/4"	5/8"	BQ127
9/16-18 UNF	3/8-24 UNF	45°	5/16"	11.2 mm	3/16"	11/16"	BQ261
M10 × 1	3/8-24 UNF	45°	3/16"	11.2 mm	3/16"	1/2"	BQ50
M10 × 1	M10 × 1	DIN	3/16"	13 mm	3/16"	16 mm	BQ40
M10 × 1	M10 × 1.25	45°	3/16"	12 mm	3/16"	13 mm	BQ42
M10 × 1	M12 × 1	45°	3/16"	12 mm	3/16"	16 mm	BQ43
M10 × 1.25	M10 × 1	45°	3/16"	12.6 mm	3/16"	13 mm	BQ41
M10 × 1.5	M10 × 1	45°	3/16"	13 mm	3/16"	15 mm	BQ9305
M11 × 1.25	3/8-24 UNF	45°	3/16"	11.2 mm	3/16"	1/2"	BQ9307
M12 × 1	1/8-27 NPT	DIN	1/4"	NPT	3/16"	16 mm	BQ246
M12 × 1.5	1/8-27 NPT	45°	3/16"	NPT	3/16"	14 mm	BQ379
M12 × 1	M10 × 1	45°	1/4"	12.6 mm	3/16"	16 mm	BQ44
M14 × 1.5	1/8-27 NPT	45°	3/16"	NPT	3/16"	17 mm	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	16 mm	1/2"	34.2 mm	BQ135
3/8-24 UNF (-03 JIC)	1/4-28 UNF	16 mm	1/2"	36 mm	BQ132
3/8-24 UNF (-03 JIC)	1/2-20 UNF	13 mm	1/2"	33 mm	BQ168
3/8-24 UNF (-03 JIC)	9/16-18 UNF	15 mm	9/16"	33 mm	BQ197
3/8-24 UNF (-03 JIC)	M10 × 1	16 mm	1/2"	34.2 mm	BQ129
3/8-24 UNF (-03 JIC)	M10 × 1.25	16 mm	1/2"	36 mm	BQ128
3/8-24 UNF (-03 JIC)	M10 × 1.5	16 mm	1/2"	60 mm	BQ130
7/16-20 UNF (-04 JIC)	3/8-24 UNF	16 mm	1/2"	37.1 mm	BQ131
7/16-20 UNF (-04 JIC)	7/16-24 UNS	16 mm	9/16"	36 mm	BQ134
7/16-20 UNF (-04 JIC)	M10 × 1	11.6 mm	1/2"	31.6 mm	BQ176
7/16-20 UNF (-04 JIC)	M12 × 1	16 mm	14 mm	36 mm	BQ144
7/16-20 UNF (-04 JIC)	M12 × 1.25	16 mm	14 mm	37 mm	BQ149

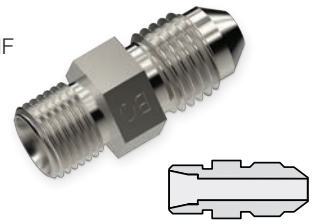


/// Male-Male Adapters Assortment Kit, **BQ7010**, is on page 158.

-04 JIC to M10 × 1

BQ145

JIC thread	7/16-20 UNF
Dash size	-04 JIC
2nd thread	M10 × 1
Hex	12 mm
Stud length	9 mm
Overall length	29 mm



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	6.5 mm
Overall length	25.9 mm

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"	37.4 mm	5MBT-5MJ
9/16-18 UNF (-06 JIC)	11/16-18 UNS	3/4"	41.9 mm	7MBT-6MJ
9/16-18 UNF (-06 JIC)	M14 × 1.5	5/8"	38.8 mm	14MMBT-6MJ
9/16-18 UNF (-06 JIC)	M16 × 1.5	17 mm	38.9 mm	16MMBT-6MJ
9/16-18 UNF (-06 JIC)	M18 × 1.5	3/4"	39.4 mm	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)	18 mm	32.1 mm	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"	30.8 mm	16MMBT-6FI

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

TRANSMISSION LINE ADAPTERS

Straight

BQ182

Thread	5/8-18 UNF
Seat type	inverted

90°

BQ183

Thread	5/8-18 UNF
Seat type	inverted

HARDWARE *CONTINUED*

COPPER WASHERS

Sold in packs of 20.

Bolt Size	Diameter	Thickness	Part Number
3/8"	5/8"	1.5 mm	BQ3858
7/16"	18 mm	1.5 mm	BQ1118
1/2"	20 mm	2 mm	BQ1320
9/16"	21 mm	2 mm	BQ1421
8 mm	13 mm	1.3 mm	BQ813
10 mm	16 mm	1.5 mm	BQ1016
12 mm	18 mm	1.5 mm	BQ1218
15 mm	22 mm	2 mm	BQ1522
16 mm	24 mm	2 mm	BQ1624

Copper Seat Seal
(Flare Gasket)
BQ244
pack of 10

/// Copper Washer Assortment Kit, **BQ7000**, is on page 157.

BANJO BOLTS

Standard

Thread	Stud Length	Hex	Part Number		*Washer*
3/8-24 UNF	25 mm	11 mm	BQ8093		*BQ3858*
7/16-20 UNF	23.8 mm	1/2"	BQ8089		*BQ1118*
7/16-20 UNF	27 mm	11 mm	BQ8096		*BQ1118*
7/16-24 UNS	26.5 mm	1/2"	BQ8090		*BQ1118*
1/2-20 UNF	31 mm	9/16"	BQ8097		*BQ1320*
M8 × 1	17 mm	10 mm	BQ8076		*BQ813*
M8 × 1.25	16 mm	10 mm	BQ8077		*BQ813*
M10 × 1	22 mm	11 mm	BQ8095		*BQ1016*
M10 × 1	26 mm	11 mm	BQ8094		*BQ1016*
M10 × 1.25	22 mm	11 mm	BQ8099		*BQ1016*
M10 × 1.5	20 mm	11 mm	BQ8075		*BQ1016*
M10 × 1.5	23 mm	11 mm	BQ8086		*BQ1016*
M10 × 1.5	23 mm	11 mm	BQ8086SS	*stainless*	*BQ1016*
M10 × 1.5	27 mm	11 mm	BQ8088		*BQ1016*
M11 × 1.25	23 mm	11 mm	BQ8087		*BQ1118*
M12 × 1	21.3 mm	13 mm	BQ8098		*BQ1218*
M12 × 1.25	25 mm	13 mm	BQ8078		*BQ1218*
M12 × 1.5	25 mm	13 mm	BQ8092		*BQ1218*

Double

Thread	Stud Length	Hex	Part Number	*Washer*
3/8-24 UNF	34.5 mm	7/16"	BQ8085	*BQ3858*
M10 × 1	34.5 mm	11 mm	BQ8083	*BQ1016*
M10 × 1.25	34.5 mm	11 mm	BQ8084	*BQ1016*

/// Banjo Bolt Assortment Kit, **BQ7007**, is on page 158.

HARDWARE *CONTINUED*

BANJO ADAPTERS

Block

Block banjo adapter ports have an inverted seat.

Thread	Hole Size	Thickness	Width	Part Number
3/8-24 UNF	10.2 mm	1/2"	17 mm	BQ60
7/16-24 UNS	11.2 mm	14 mm	18 mm	BQ62
1/2-20 UNF	12.9 mm	16 mm	20 mm	BQ63
M10 × 1	10.2 mm	13 mm	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	10 mm	10 mm	17 mm	42 mm	BQ150 *tube*
3/8-24 UNF	-03 JIC	10 mm	10 mm	17 mm	19.6 mm	BQ151
3/8-24 UNF (2)	-03 JIC	10 mm	10 mm	17 mm	39.2 mm	BQ152 *union*
7/16-20 UNF	-04 JIC	10 mm	10 mm	18 mm	42 mm	BQ155 *tube*
1/2-20 UNF	-05 JIC	14 mm	14 mm	24 mm	26 mm	BQ271
1/2-20 UNF	-05 JIC	14 mm	14 mm	24 mm	44 mm	BQ392 *tube*
9/16-18 UNF	-06 JIC	16 mm	16 mm	28 mm	44 mm	BQ393 *tube*

/// Banjo Adapters Assortment Kit, **BQ7001**, page 157.

BRAZE-ON BANJO HEADS

Hole Size	Thickness	Width	Tube Size	Overall Length	Part Number
7/16"	10 mm	19 mm	3/16"	27.5 mm	BQ225
10.2 mm	8 mm	17 mm	3/16"	25.5 mm	BQ223
10.2 mm	10 mm	18 mm	3/16"	26 mm	BQ224
12.2 mm	12 mm	22 mm	10 mm	27 mm	BQ178
14.2 mm	14 mm	24 mm	10 mm	28 mm	BQ179

/// Brazing rods are on page 146.

HARDWARE *CONTINUED*

BLEED SCREWS

Thread	Stud Length	Hex	Part Number	*Cap*
1/4-28 UNF	15.3 mm	7 mm	BQ4439	*BQ315*
5/16-24 UNF	17.5 mm	5/16"	BQ4438	*BQ316*
3/8-24 UNF	20.8 mm	3/8"	BQ4433	*BQ315*
7/16-20 UNF	20.5 mm	7/16"	BQ4445	*BQ316*
7/16-24 UNS	24.5 mm	7/16"	BQ4444	*BQ316*
M7 × 1	12.5 mm	8 mm	BQ4436	*BQ315*
M7 × 1	21.5 mm	7 mm	BQ4441	*BQ315*
M8 × 1	17.5 mm	8 mm	BQ4443	*BQ316*
M8 × 1.25	22.1 mm	8 mm	BQ4442	*BQ316*
M10 × 1	19.5 mm	10 mm	BQ4435	*BQ315*
M10 × 1	24.1 mm	10 mm	BQ4434	*BQ315*
M10 × 1.25	20.4 mm	10 mm	BQ4446	*BQ316*
M10 × 1.5	17.9 mm	10 mm	BQ4440	*BQ316*

Bleed Screw Caps

Part Number	Size
BQ315	Small
BQ316	Large

Bleed Screw Repair Kit

BQ181

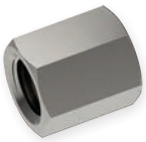
Rescue your brake component that has a stripped or broken bleed screw: simply drill and tap to 1/8-27 NPT.

/// 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	13 mm	BQ164
M10 × 1.25	13 mm	BQ165
M12 × 1	16 mm	BQ166
M12 × 1.5	16 mm	BQ167

Plugs

Thread	Fits	Hex	Part Number
1/8-27 NPT	-	7/16"	BQ508
3/8-24 UNF	inverted seat	3/8"	BQ503
7/16-24 UNS	inverted seat	7/16"	BQ504
M10 × 1	drill-point seat	11 mm	BQ506
M10 × 1	inverted seat	11 mm	BQ502
M12 × 1	drill-point seat	13 mm	BQ507
M12 × 1	inverted seat	13 mm	BQ505

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

HARDWARE *CONTINUED*

ASSORTMENT KITS

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

Copper Washers

BQ7000

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

/// Copper washer listing is on page 154.

Banjo Adapters

BQ7001

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

/// Banjo adapter listing is on page 155.

3-Way Tube Tees

BQ7002

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

/// Tee listing is on page 149.

Bump Tube Adapters

BQ7003

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

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

Male-Female Adapters

BQ7004

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

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

HARDWARE *CONTINUED*

Metric Tube Nuts

BQ7005

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

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

Imperial Tube Nuts

BQ7006

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

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

Banjo Bolts

BQ7007

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

/// Banjo bolt listing is on page 154.

Female Unions

BQ7009

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

/// Female union listing is on page 147.

Male-Male Adapters

BQ7010

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

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

HARDWARE *CONTINUED*

Bleed Screws

BQ7014

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

/// Bleed screw listing is on page 156.

Brake Hose Plugs & Caps

BQ7015

BQ1020R

Part Number	Qty
BQ160	2
BQ161	2
BQ163	2
BQ164	2
BQ165	2
BQ166	2
BQ167	2
BQ502	2
BQ503	2
BQ504	2
BQ505	2
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BQ1020R	1

/// 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.

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