

ONPAAS *BRAKE LINES* *PARTS & ASSEMBLIES*



CATALOG

Automotive Hose, Tubing, and Components

avBechtle

Catalog

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Published January 2024

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Round Banjo	34				
8 mm hole	34				
10 mm hole	34				
11 mm hole	40				
12 mm hole	40				
15 mm hole	40				
7/16" hole	40				

FITTING IDENTIFICATION

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

1. Select the crimp

Part Prefix	Group
B <i>HF</i>	STANDARD HOSE FITTING Fittings for both rubber & braided stainless steel hose
C <i>LP</i>	LOW PROFILE Fittings for braided stainless steel hose
D <i>PSHF</i>	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 (on page 102), 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	B examples <i>HF examples</i>	C examples <i>LP examples</i>
B10 <i>HF</i>	MISCELLANEOUS Swivels, lifesavers, universals, and other fittings that do not belong to another group.	B10-100 <i>HF01</i>	C10-100 <i>LP01-3</i>
B11 <i>HFB</i>	BANJO Organized by shape, then hole size and width.	B11-104 <i>HFB09</i>	C11-116 <i>LPB09-10M</i>
B12 <i>HFC</i>	CENTER SUPPORT Organized by mount type.	B12-100 <i>HFC01</i>	C12-100 <i>LPC01</i>
B13 <i>HFIF</i>	IMPERIAL FEMALE Organized by mount type, then thread and seat type.	B13-103 <i>HFIF02</i>	C13-104 <i>LPIF02-7</i>
B14 <i>HFIFX</i>	IMPERIAL FEMALE WITH EXTERNAL THREAD Organized within Imperial Female group as Bulkhead Mount.	B14-100 <i>HFIFX01</i>	C14-100 <i>LPIFX01</i>
B15 <i>HFIM</i>	IMPERIAL MALE Organized by mount type, then thread.	B15-100 <i>HFIM01</i>	C15-100 <i>LPIM01-6</i>
B16 <i>HFMF</i>	METRIC FEMALE Organized by mount type, then thread and seat type.	B16-103 <i>HFMF04</i>	C16-103 <i>LPMF04</i>
B17 <i>HFMFX</i>	METRIC FEMALE WITH EXTERNAL THREAD Organized within Metric Female group as Bulkhead Mount.	B17-100 <i>HFMFX01</i>	
B18 <i>HFMM</i>	METRIC MALE Organized by mount type, then thread.	B18-102 <i>HFMM03</i>	C17-102 <i>LPMM03-M10X1</i>

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**, A13-130 (BQ2033).

EQUIPMENT

Machines

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Equipment Aids

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Machine	6

Crimp Setting

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MACHINES & EQUIPMENT AIDS

VERSATILE CRIMPING SYSTEM

A10-100 *BQ1006-2*

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



Crimp dies

If you want to use your existing hose crimper we provide crimp dies for the most common Manufacturers:

Uniflex, Finnpower, Techmaflex, O+P etc.



BRAKE HOSE PRESSURE TESTER

A10-103 *BQ1013A*

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

/// Machine instructions are in the machine manuals.



MEASUREMENT

Angle gauge

A13-130

BQ2033



Constriction gauge

A13-125

BQ2001W



MACHINE

10 mm drill bit

A13-129

BQ2010



This drill bit is designed to be used with lifesavers.

CRIMP SETTING

FRONT CRIMP-SETTING

Standard

A13-126

BQ2002



Low profile

A13-137

BQ2110



Power steering

A13-134

BQ2091A



REAR CRIMP-SETTING

Standard

A13-117

BQ1021A



Standard on braided

A13-120

BQ1027



Low profile

A13-122

BQ1029



Power steering

A13-119

BQ1026



GENERAL CRIMP-SETTING

Crimp-setting spade

A13-102

BQ37



Crimp-setting clip

A13-115

BQ1014



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

TESTING

TOOLS

Fitting support spade

A13-145

BQ23



Fitting test adapter

A13-118

BQ1022



Use A13-118 (BQ1022) to test fittings before crimping.

Banjo blocking-off tool

A13-146

BQ1020R



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

TEST CONES

Universal cones

A13-103

BQ206



A13-104

BQ206H



with hole

Long-head cones

A13-109

BQ208



A13-110

BQ208H



with hole

Female swivel cones

A13-106

BQ206S

drill-point seat



A13-105

BQ206HS

drill-point seat



with hole

A13-107

BQ207

inverted seat



A13-108

BQ207H

inverted seat



with hole

Cone shank

A13-100

BQ21

Use A13-100 (BQ21) for banjo fittings.



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

BRAKE & CLUTCH

Hose

Rubber Brake Hose	10
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Accessories

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General Fittings

Female Swivel	15
Male Swivel	17
Universal	21
Lifesaver	22
Center Joiner	23
Clutch	24
Compression	24

Block Banjo

Universal	25
10 mm hole	25
11 mm hole	29
12 mm hole	30
3/8" hole	31
7/16" hole	33

Round Banjo

8 mm hole	34
10 mm hole	34
11 mm hole	40
12 mm hole	40
15 mm hole	40
7/16" hole	40

Imperial Female

Bolt Mount	41
Bracket Mount	42
Bulkhead Mount	43
Clip Mount	45
Standard	49

Metric Female

Bolt Mount	50
Bracket Mount	51
Clip Mount	52
Spline Mount	58
Bulkhead Mount	59

Imperial Male

JIC Male	60
Bulkhead Mount	60
Clip Mount	60
Standard	61

Metric Male

Bulkhead Mount	63
Clip Mount	64
Standard	64

Center Support

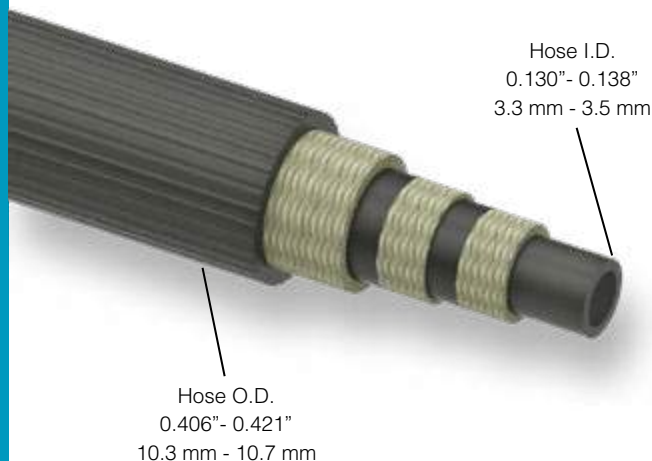
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Brackets

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HOSE

RUBBER BRAKE HOSE



Rubber Hose

B00-101

BQ105

Carriers	24
Wires per Carrier	4
Hose Wall	0.4" / 10mm
Operating Pressure	1500psi
Burst Pressure	10,000 psi
Bend Radius	1.5" / 38 mm
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.

Rubber Brake Hose Cutters

A12-118

BQ2102



A12-112

BQ2103



The blade has two cutting points for double life.

Replacement blade
A13-136 (BQ2101B)

ACCESSORIES

RUBBER HOSE ACCESSORIES

Spring Protectors

A14-110

BQ202

Length 50 cm



nylon

A14-100

BQ11

Length 16"
Sold in packs of 6



steel

Strain Relievers

A14-103

BQ296

Length 9 cm



rubber

Rubber Protectors

A15-110

BQ203

Length 10.4 cm



rubber

Center Support Sleeves

A14-104

BQ310

Sold in 10 ft sections



Use with standard profile center support fittings on C00-105 (BQ301) unjacketed braided brake hose.

A14-105

BQ311

Sold in 10 ft sections



Use with standard profile center support fittings on C00-100 (BQ303) jacketed braided brake hose (all colors).

ACCESSORIES CONTINUED

Plastic Clips

A15-289

BQ65

Sold in packs of 6



A15-290

BQ66

Sold in packs of 6



A15-104

BQ67

Sold in packs of 6



A15-105

BQ68

Sold in packs of 6



A15-106

BQ69

Sold in packs of 6



A15-107

BQ70

Sold in packs of 6



A15-108

BQ97

Sold in packs of 6



A15-109

BQ98

Sold in packs of 6



BRAIDED HOSE ACCESSORIES

Crimp Shell Inserts

A15-128

BQ251-BK

Color



black

A15-129

BQ251-BL

Color



blue

A15-130

BQ251-GD

Color



gold

A15-131

BQ251-GR

Color



green

A15-132

BQ251-PP

Color



purple

A15-133

BQ251-RD

Color



red

A15-134

BQ251-SV

Color



silver

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](#), A14-105 (BQ311).

A15-112 BQ210

Diameter 30 mm
Overall length 10 mm



| Braided hose A15-113 BQ210BR

A15-114 BQ211

Diameter 18 mm
Overall length 25 mm



| Braided hose A15-115 BQ211BR

A15-116 BQ212

Diameter 22 mm
Overall length 41 mm



A15-117 BQ213

Diameter 30 mm
Overall length 32 mm



| Braided hose A15-118 BQ213BR

A15-119 BQ215

Diameter 25 mm
Overall length 22 mm



| Braided hose A15-120 BQ215BR

A15-122 BQ217

Diameter 25.5mm
Overall length 29 mm



A15-123 BQ218

Diameter 25 mm
Overall length 16 mm



| Braided hose A15-288 BQ288

A15-124 BQ233

Diameter 26 mm
Overall length 24 mm



A15-125 BQ234

Diameter 19 mm
Overall length 34 mm



| Braided hose A15-135 BQ289

A15-285 BQ272

Diameter 25.4mm
Overall length 10 mm



A15-286 BQ273

Diameter 26 mm
Overall length 8 mm



A15-287 BQ274

Diameter 18 mm
Overall length 62 mm



A15-291 BQ275

Diameter 32 mm
Overall length 24 mm



ACCESSORIES CONTINUED

A15-292 BQ276

Diameter 18 mm
Overall length 10 mm



A15-284 BQ277

Diameter 14 mm
Overall length 28 mm



| Braided hose A15-136 BQ294

FITTING ACCESSORIES

E-Clip

A15-100 BQ12

Available in packs of 20



Bracket Retaining Screws

A36-125 BQ71

Available in packs of 50



FITTING TOOLS

Standard Banjo Bending Bar

A12-101

BQ22A



Low Profile Banjo Bending Bar

A12-103

BQ22C



Banjo Bending Tool Holder

A12-102

BQ22B



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

GENERAL FITTINGS

FEMALE SWIVEL 5/16-24 UNF

B10-142 *HF61*

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



FEMALE SWIVEL 3/8-24 UNF

B10-113 *HF09*

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



Stainless B10-111 *HF09SS*

B10-112 *HF09W*

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



wire-lock

Low profile C10-108 *LP09W-6*
 LP chrome C10-109 *LP09W-6C*

B10-113 *HF10*

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



Low profile C10-110 *LP10W-6*
 LP chrome C10-111 *LP10W-6C*

B10-114 *HF11*

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



Stainless B10-115 *HF11SS*
 Low profile C10-112 *LP11-6*, C10-113 *LP11W-6*
 LP chrome C10-114 *LP11W-6C*

GENERAL FITTINGS *CONTINUED*

FEMALE SWIVEL 7/16-20 UNF

B10-116 *HF12*

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



| Stainless B10-115 *HF12SS*
| Low profile C10-115 *LP12W-7*
| LP chrome C10-116 *LP12W-7C*

B10-118 *HF13*

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



| Stainless B10-119 *HF13SS*
| Low profile C10-117 *LP13W-7*
| LP chrome C10-118 *LP13W-7C*

B10-120 *HF14*

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



| Low profile C10-119 *LP14W-7*
| LP chrome C10-120 *LP14W-7C*

B10-182 *HF410*

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



FEMALE SWIVEL M12 ×1

B10-159 *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

B10-123 *HF16*

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



| Brass B10-174 *HF157BT*
| Stainless B10-124 *HF16SS*
| Low profile C10-122 *LP16-6*
| LP chrome C10-123 *LP16-6C*
| LP stainless C10-124 *LP16-6SS*

B10-125 *HF17*

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



| Stainless B10-126 *HF17SS*
| Low profile C10-125 *LP17-6*
| LP chrome C10-126 *LP17-6C*
| LP stainless C10-127 *LP17-6SS*

B10-134 *HF33*

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



| Stainless B10-183 *HF33SS*
| Low profile C10-128 *LP33-6*
| LP chrome C10-129 *LP33-6C*
| LP stainless C10-130 *LP33-6SS*

B10-140 *HF43SS*

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



stainless

B10-141 *HF45SS*

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



stainless

| Low profile C10-133 *LP45-6*
| LP chrome C10-134 *LP45-6C*

B10-144 *HF63*

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



B10-150 *HF81*

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



B10-171 *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*

MALE SWIVEL 7/16-24 UNS

B10-104 *HF04*

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



B10-106 *HF06*

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



| Low profile C10-105 *LP06-7*

B10-107 *HF07*

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



| Stainless B10-108 *HF07SS*

B10-121 *HF15*

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



| Stainless B10-122 *HF15SS*

B10-139 *HF39*

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



B10-158 *HF101*

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



B10-166 *HF135*

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



GENERAL FITTINGS *CONTINUED*

MALE SWIVEL 1/20-20 UNF

B10-127 *HF18*

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



B10-130 *HF28*

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



B10-131 *HF29*

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



B10-153 *HF92*

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



MALE SWIVEL 9/16-18 UNF

B10-155 *HF98*

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

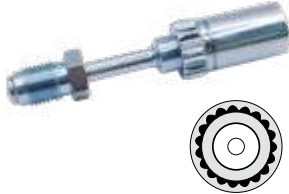


GENERAL FITTINGS *CONTINUED*

MALE SWIVEL M10 × 1

B10-109 *HF08*

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



B10-135 *HF34*

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



| Low profile C10-131 *LP34-M10X1*
| LP stainless C10-132 *LP34-M10X1SS*

B10-151 *HF82*

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



| Low profile C10-136 *LP82-M10X1*
| LP zinc-nickel C10-137 *LP82-M10X1Z*

B10-161 *HF115*

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



B10-162 *HF116*

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



B10-163 *HF117*

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



B10-175 *HF158*

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



| Low profile C10-143 *LP125*

B10-179 *HF310*

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



B10-180 *HF403*

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



GENERAL FITTINGS *CONTINUED*

MALE SWIVEL M12 × 1

B10-149 *HF77*

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



B10-167 *HF137*

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



B10-181 *HF404*

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



UNIVERSAL

B10-102 *HF02*

Tube size 3/16"
Overall length 99 mm



B10-103 *HF03*

Tube size 1/4"
Overall length 99 mm



| Low profile C10-103 *LP02*

| Low profile C10-104 *LP03*

B10-168 *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. **avPAAS** offers six lifesavers for use with standard brake fittings as well as low-profile and power steering versions.

Center Support Lifesaver

B10-105 HF05

Overall length 23 mm



7mm Shank Banjo Lifesaver

B10-164 HF120

Tube 7mm
Overall length 27mm



Use with 7mm shank banjo fittings.

3/16" Lifesaver

B10-100 HF01

Tube size 3/16"
Overall length 27 mm



3/16" Tube-Style Lifesaver

B10-173 HF155SS

Tube size 3/16"
Overall length 27 mm



stainless

- | Stainless B10-101 HF01SS
- | Low profile C10-100 LP01-3

1/4" Lifesaver

B10-128 HF26

Tube size 1/4"
Overall length 27 mm



- | Low profile C10-101 LP01-4

5/16" / 8mm Tube-Style Lifesaver

B10-129 HF27

Tube size 5/16"
Overall length 27 mm



- | Low profile C10-102 LP01-5

PRE-FLUXED BRAZING RODS

Silver

A13-143 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

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

GENERAL FITTINGS *CONTINUED*

CENTER JOINER

B10-137 *HF37*

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



B10-138 *HF38*

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



B10-145 *HF71*

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



B10-146 *HF72*

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



B10-147 *HF73*

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



B10-148 *HF74*

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



B10-178 *HF300*

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



GENERAL FITTINGS *CONTINUED*

CLUTCH

B10-136 *HF35*



B10-143 *HF62*



B10-160 *HF114*



O-ring included.

B10-165 *HF125*



O-ring and release included.

| Low profile C10-148 *LP156*

COMPRESSION

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

B10-132 *HF30*

Tube size 3/16"

Hex 1/2"



BLOCK BANJO

10 MM HOLE UNIVERSAL

B11-116 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

B11-117 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, A18-103 (BQ2578), and the 1/2-20 UNF female fitting, B13-106 (HFIF06).

10 MM HOLE 16 MM WIDTH

B11-109 HFB13

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



B11-155 HFB81

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



10 MM HOLE 17 MM WIDTH

B11-115 HFB21

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



BLOCK BANJO *CONTINUED*

B11-132 *HFB46*

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



B11-162 *HFB100*

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



10 MM HOLE 18 MM WIDTH

B11-204 *HFB236*

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



B11-259 *HFB367*

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



B11-282 *HFB493*

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



left

B11-283 *HFB494*

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



right

| Low profile C11-135 (*LPB493-10M*)
 | Right pair B11-283 (*HFB494*)

| Low profile C11-136 (*LPB494-10M*)
 | Left pair B11-282 (*HFB493*)

BLOCK BANJO *CONTINUED*

10 MM HOLE 19 MM WIDTH

B11-112 *HFB16*

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



B11-129 *HFB40*

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



B11-131 *HFB45*

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



B11-136 *HFB49*

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



B11-193 *HFB180*

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



B11-194 *HFB187*

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



B11-215 *HFB251*

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



BLOCK BANJO *CONTINUED*

10 MM HOLE 20 MM WIDTH

B11-108 *HFB12*

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



| Low profile C11-122 (*LPB12-10M*)

B11-110 *HFB14*

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



| Low profile C11-123 (*LPB14-10M*)

B11-130 *HFB41*

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



B11-159 *HFB91*

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



B11-166 *HFB107*

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



right

B11-167 *HFB108*

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



left

| Left pair B11-167 (*HFB108*)

| Right pair B11-166 (*HFB107*)

B11-172 *HFB119*

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



right

B11-173 *HFB120*

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



left

| Left pair B11-173 (*HFB120*)

| Right pair B11-172 (*HFB119*)

B11-217 *HFB259*

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



left

B11-218 *HFB260*

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



right

| Right pair B11-218 (*HFB260*)

| Left pair B11-217 (*HFB259*)

BLOCK BANJO *CONTINUED*

B11-192 *HFB173*

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



10 MM HOLE 26 MM WIDTH

B11-141 *HFB56*

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



10 MM HOLE 28 MM WIDTH

B11-107 *HFB11*

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



11 MM HOLE 19 MM WIDTH

B11-139 *HFB54*

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



B11-145 *HFB66*

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



B11-149 *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

B11-143 *HFB60*

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



11 MM HOLE 25 MM WIDTH

B11-135 *HFB48*

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



B11-140 *HFB55*

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



12 MM HOLE 19 MM WIDTH

B11-163 *HFB101*

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



B11-183 *HFB145*

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



12 MM HOLE 22 MM WIDTH

B11-233 *HFB312*

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



3/8" HOLE 19 MM WIDTH

B11-158 *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

B11-208 *HFB243*

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



B11-224 *HFB283*

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



3/8" HOLE 22 MM WIDTH

B11-178 *HFB135*

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



B11-179 *HFB136*

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



| Left pair B11-179 (*HFB136*)

| Right pair B11-178 (*HFB135*)

B11-148 *HFB69*

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



| Left pair B11-147 (*HFB68*)

B11-202 *HFB230*

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



| Left pair B11-203 (*HFB231*)

B11-203 *HFB231*

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



| Right pair B11-202 (*HFB230*)

BLOCK BANJO *CONTINUED*

B11-222 *HFB277*

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

*right*

| Left pair B11-223 (*HFB278*)

B11-223 *HFB278*

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

*left*

| Right pair B11-222 (*HFB277*)

B11-266 *HFB386*

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

*left*

| Right pair B11-267 (*HFB387*)

B11-271 *HFB418*

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

*left*

| Right pair B11-272 (*HFB419*)

B11-272 *HFB419*

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

*right*

| Left pair B11-271 (*HFB418*)

3/8" HOLE 23 MM WIDTH

B11-237 *HFB323*

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

*left*

| Right pair B11-238 (*HFB324*)

B11-238 *HFB324*

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

*right*

| Left pair B11-237 (*HFB323*)

BLOCK BANJO *CONTINUED*

B11-273 *HFB430*

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

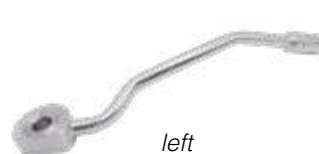


right

| Left pair B11-274 (*HFB431*)

B11-274 *HFB431*

Hole 3/8"
Thickness 12.5 mm
Width 23.1 mm
Overall length 143.8 mm



left

| Right pair B11-273 (*HFB430*)

3/8" HOLE 25 MM WIDTH

B11-201 *HFB222*

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



right

| Left pair B11-200 (*HFB221*)

B11-265 *HFB384*

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



3/8" HOLE 26 MM WIDTH

B11-230 *HFB306*

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



right

| Left pair B11-231 (*HFB307*)

B11-231 *HFB307*

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



left

| Right pair B11-230 (*HFB306*)

7/16" HOLE 22 MM WIDTH

B11-221 *HFB276*

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



ROUND BANJO

8MM HOLE 14 MM WIDTH

B11-118 HFB27

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



bendable to 45°

| Low profile C11-124 (LPB27-8M)

8MM HOLE 21 MM WIDTH

B11-168 HFB111

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



10 MM HOLE 17 MM WIDTH

B11-100 HFB01

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



bendable to 45°

| Low profile C11-100 (LPB01-10M)

| LP chrome C11-104 (LPB01-10MC)

| LP stainless C11-105 (LPB01-10MSS)

B11-102 HFB03

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



bendable to 45°

B11-103 HFB05

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



bendable to 45°

B11-121 HFB32

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



| Low profile C11-112 (LPB01-90-10M)

B11-120 HFB29

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



ROUND BANJO *CONTINUED*

B11-123 *HFB34*

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



bendable to 90°

| Stainless B11-124 *HFB34SS*

B11-125 *HFB35*

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



bendable to 90°

B11-137 *HFB50*

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



left
bendable to 45°

| Right pair B11-150 *HFB73*

B11-150 *HFB73*

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



right
bendable to 45°

| Left pair B11-137 *HFB50*

B11-151 *HFB75*

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



B11-228 *HFB288*

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



bendable to 45°

B11-242 *HFB342*

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



right

| Left pair B11-243 *HFB343*

B11-243 *HFB343*

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



left

| Right pair B11-242 *HFB342*

B11-244 *HFB344*

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



bendable to 45°

ROUND BANJO *CONTINUED*

B11-253 *HFB358*

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



left

| Right pair B11-254 *HFB359*

B11-258 *HFB366*

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



B11-345 *HFB389*

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



right

| Left pair B11-346 *HFB390*

B11-288 *HFB530*

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



B11-301 *HFB546*

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



right

| Left pair B11-300 *HFB545*

B11-302 *HFB547*

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



left

| Right pair B11-303 *HFB548*

B11-303 *HFB548*

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



right

| Left pair B11-302 *HFB547*

ROUND BANJO *CONTINUED*

10 MM HOLE 18 MM WIDTH

B11-101 *HFB02*

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



bendable to 45°

B11-104 *HFB09*

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



bendable to 45°

| Stainless B11-105 *HFB09SS*
| Low profile C11-116 *LPB09-10M*
| LP chrome C11-117 *LPB09-10MC*
| LP stainless C11-118 *LPB09-10MSS*

B11-111 *HFB15*

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



bendable to 45°

B11-126 *HFB37*

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



bendable to 45°

| Stainless B11-127 *HFB37SS*

B11-160 *HFB92*

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



left

| Right pair B11-161 *HFB93*

B11-161 *HFB93*

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



right

| Left pair B11-160 *HFB92*

B11-196 *HFB194*

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



| Low profile C11-134 *LPB455-10M*

B11-241 *HFB340*

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



ROUND BANJO *CONTINUED*

B11-245 *HFB345*

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



B11-260 *HFB373*

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



B11-248 *HFB351*

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



left

bendable to 45°

B11-249 *HFB352*

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



right

bendable to 45°

| Right pair B11-249 *HFB352*

| Left pair B11-248 *HFB351*

B11-250 *HFB353*

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



right

B11-251 *HFB354*

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



left

| Left pair B11-251 *HFB354*

| Right pair B11-250 *HFB353*

B11-278 *HFB456*

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



right

B11-279 *HFB457*

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



left

| Left pair B11-279 *HFB457*

| Right pair B11-278 *HFB456*

B11-284 *HFB519*

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



B11-347 *HFB522*

Hole 10 mm
Thickness 10 mm
Width 18 mm
Bend straight
Overall length 66 mm



bendable to 45°

ROUND BANJO *CONTINUED*

B11-285 *HFB523*

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



bendable to 45°

B11-287 *HFB528*

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



B11-290 *HFB534*

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



B11-291 *HFB535*

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



left

| Right pair B11-292 *HFB536*

B11-293 *HFB537*

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



left

B11-296 *HFB540*

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



right

| Left pair B11-295 *HFB539*

| Right pair B11-294 *HFB538*

10 MM HOLE 19 MM WIDTH

B11-106 *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*

ROUND BANJO *CONTINUED*

11 MM HOLE 25 MM WIDTH

B11-348 *HFB158*

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



| Right pair B11-188 *HFB159*

B11-188 *HFB159*

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



| Left pair B11-348 *HFB158*

12 MM HOLE 19 MM WIDTH

B11-133 *HFB47*

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



| Stainless B11-134 *HFB47SS*

| Low profile C11-125 *LPB47-12M*

15 MM HOLE 25 MM WIDTH

B11-114 *HFB19*

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



7/16" HOLE 19 MM WIDTH

B11-275 *HFB448*

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



| Low profile C11-130 *LPB448-7*

| LP stainless C11-133 *LPB448-7SS*

B11-340 *HFB682*

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



| Low profile C11-137 *LPB652*

IMPERIAL FEMALE

BOLT MOUNT 3/8-24 UNF

Inverted seat

B13-119 HFIF23

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



B13-121 HFIF25

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



B13-124 HFIF31

Thread 3/8-24 UNF port
 Seat type inverted
 Mount hole 11.9 mm
 Overall length 52 mm



B13-127 HFIF34

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



B13-131 HFIF37

Thread 3/8-24 UNF port
 Seat type inverted
 Mount hole 12 mm
 Overall length 53 mm



B13-133 HFIF39

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



B13-135 HFIF43

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



B13-138 HFIF47

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



B13-144 HFIF56

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



B13-171 HFIF129

Thread 3/8-24 UNF ports (2)
 Seat type inverted
 Mount hole 8.75 mm
 Bend straight
 Overall length 75 mm



IMPERIAL FEMALE *CONTINUED*

BOLT MOUNT 7/16-24 UNS

Inverted seat

B13-137 *HFIF46*

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



B13-181 *HFIF157*

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



B13-145 *HFIF57*

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



B13-168 *HFIF111*

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



BRACKET MOUNT 3/8-24 UNF

Inverted seat

B13-113 *HFIF15*

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



B13-163 *HFIF99*

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



B13-170 *HFIF120*

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



B13-177 *HFIF146*

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



B13-185 *HFIF304*

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



/// Find [Bracket Retaining Screws](#), A36-125 (BQ71), on page 14.

IMPERIAL FEMALE *CONTINUED*

BRACKET MOUNT 7/16-24 UNS

Inverted seat

B13-141 *HFIF52*

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



B13-166 *HFIF109*

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



/// Find [Bracket Retaining Screws](#), A36-125 (*BQ71*), on page [14](#).

BULKHEAD MOUNT 3/8-20 BSF

B14-102 *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

B14-104 *HFIFX05*

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



/// [Bulkhead nuts](#) are listed in our **Automotive-Lines** catalog on page [20](#).

IMPERIAL FEMALE CONTINUED

BULKHEAD MOUNT 3/8-24 UNF

Inverted seat

B14-101 HFIFX02

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



B14-108 HFIFX11

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



B14-110 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 listed in our **Automotive-Lines** catalog on page 20.

BULKHEAD MOUNT 7/16-24 UNS

Inverted seat

B14-100 HFIFX01

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



B14-105 HFIFX06

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



Low profile C14-100* LPIFX01*
 *LP stem C18-100 LPS-LI-SAE

B14-106 HFIFX07

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



B14-109 HFIFX12

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



IMPERIAL FEMALE *CONTINUED*

B14-111 *HFIFX16*

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



B14-112 *HFIFX19*

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



B14-113 *HFIFX21*

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



B14-115 *HFIFX23*

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



Secure with A26-113 (BQ89) nut.

BULKHEAD MOUNT 1/2-20 UNF

Inverted seat

B14-107 *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 listed in our **Automotive-Lines** catalog on page 20.

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

B13-117 *HFIF21*

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



IMPERIAL FEMALE *CONTINUED*

Inverted seat

B13-100 *HFIF01*

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



B13-101 *HFIF01B*

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

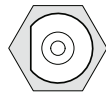


brass

Brass	B13-101 <i>HFIF01B</i>
Stainless	B13-102 <i>HFIF01SS</i>
Low profile	C13-100, C13-101* <i>LPIF01, LPIF01-6*</i>
LP chrome	C13-102 <i>LPIF01-6C</i>
LP stainless	C13-103* <i>LPIF01-6SS*</i>
*LP stem	C18-103 <i>LPS-SI-SAE</i>
Alternative	B13-129 <i>HFIF36</i>

B13-105 *HFIF05*

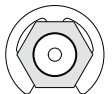
Thread 3/8-24 UNF port
Seat type inverted
Hex 19 mm
Overall length 38 mm



Low profile	C13-105* <i>LPIF05*</i>
*LP stem	C18-103 <i>LPS-SI-SAE</i>
Alternative	B13-136 <i>HFIF45</i>

B13-107 *HFIF07*

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



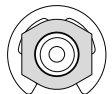
B13-108 *HFIF08*

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



B13-110 *HFIF10*

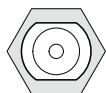
Thread 3/8-24 UNF port
Seat type inverted
Flats 16 mm
Overall length 39 mm



Low Profile	C13-106* <i>LPIF10*</i>
*LP stem	C18-100 <i>LPS-LI-SAE</i>

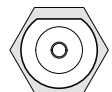
B13-111 *HFIF11*

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



B13-112 *HFIF14*

Thread 3/8-24 UNF port
Seat type inverted
Hex 19 mm
Overall length 50 mm



/// E-clips, A15-100 (BQ12), are on page 14.

/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

IMPERIAL FEMALE *CONTINUED*

Inverted seat

B13-114 *HFIF18*

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



B13-115 *HFIF19*

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



B13-125 *HFIF32*

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



B13-129 *HFIF36*

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



| Stainless B13-130 *HFIF36SS*
| Alternative B13-100 *HFIF01*

B13-132 *HFIF38*

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



B13-134 *HFIF40*

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



B13-136 *HFIF45*

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



| Alternative HFIF05

B13-151 *HFIF72*

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



B13-157 *HFIF83*

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



B13-173 *HFIF140*

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



B13-184 *HFIF301*

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



/// E-clips, A15-100 (BQ12), are on page 14.

/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

IMPERIAL FEMALE CONTINUED

CLIP MOUNT 7/16-20 UNF

Inverted seat

B13-174 HFIF141

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



B13-182 HFIF172

Thread 7/16-20 UNF port
Seat type inverted
Hex 7/8"
Overall length 36 mm



CLIP MOUNT 7/16-24 UNS

Inverted seat

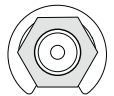
B13-103 HFIF02

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



B13-109 HFIF09

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



- | Low profile C13-104* LPIF02-7*
- | *LP stem C18-105 LPS-SI-SAE
- | Alternative B13-120 HFIF24

B13-116 HFIF20

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



B13-120 HFIF24

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



| Alternative B13-103 HFIF02

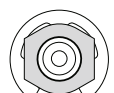
B13-126 HFIF33

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



B13-128 HFIF35

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



IMPERIAL FEMALE *CONTINUED*

Inverted seat

B13-140 *HFIF51*

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



B13-152 *HFIF73*

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



CLIP MOUNT 1/2-20 UNF

Inverted seat

B13-155 *HFIF79*

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



/// E-clips, A15-100 (BQ12), are on page 14.
/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

STANDARD 1/2-20 UNF

Drill-point seat

B13-104 *HFIF03*

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



Inverted seat

B13-106 *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

B16-135 *HFMF50*

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



B16-169 *HFMF328*

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



Inverted seat

B16-116 *HFMF18*

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



B16-134 *HFMF48*

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



| Low profile C16-116 *LPMF48*

B16-144 *HFMF69*

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



BOLT MOUNT M11 × 1.5

Inverted seat

B16-147 *HFMF79*

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



METRIC FEMALE *CONTINUED*

BRACKET MOUNT M10 × 1

Drill-point seat

B16-130 *HFMF40*

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



B16-148 *HFMF90*

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



B16-182 *HFMF371*

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



B16-184 *HFMF380*

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



Inverted seat

B16-164 *HFMF317*

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



B16-165 *HFMF324*

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



B16-166 *HFMF325*

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



B16-167 *HFMF326*

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



B16-172 *HFMF342*

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



left

B16-173 *HFMF343*

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



right

| Right pair B16-173 *HFMF343*

| Left pair B16-173 *HFMF342*

/// Find [Bracket Retaining Screws](#), A36-125 (BQ71), on page 14.

METRIC FEMALE CONTINUED

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

B16-112 HFMF12

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



CLIP MOUNT M10 × 1

Drill-point seat

B16-102 HFMF03

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



B16-105 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

B16-108 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

B16-121 HFMF24

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



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

B16-127 HFMF35

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



B16-128 HFMF38

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



METRIC FEMALE *CONTINUED*

Drill-point seat

B16-129 *HFMF39*

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



B16-137 *HFMF54*

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



B16-138 *HFMF55*

Thread M10x1 port
Seat type drill-point
Hex 19 mm
Overall length 46 mm



B16-195 *HFMF58*

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



B16-140 *HFMF59*

Thread M10x1 port
Seat type drill-point
Flats 17 mm
Overall length 38 mm



B16-141 *HFMF62*

Thread M10x1 port
Seat type drill-point
Flats 17 mm
Overall length 39 mm



B16-142 *HFMF63*

Thread M10x1 port
Seat type drill-point
Hex 17 mm
Overall length 39 mm



B16-143 *HFMF65*

Thread M10x1 port
Seat type drill-point
Hex 17 mm
Overall length 39 mm



B16-146 *HFMF71*

Thread M10x1 port
Seat type drill-point
Hex 17 mm
Overall length 39 mm



B16-152 *HFMF96*

Thread M10x1 port
Seat type drill-point
Hex 5/8"
Overall length 38 mm



B16-153 *HFMF99*

Thread M10x1 port
Seat type drill-point
Hex 17 mm
Overall length 45 mm



B16-154 *HFMF100*

Thread M10x1 port
Seat type drill-point
Hex 17 mm
Overall length 39 mm



/// E-clips, A15-100 (BQ12), are on page 14.

/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

METRIC FEMALE *CONTINUED*

Drill-point seat

B16-158 *HFMF123*

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

**B16-159** *HFMF124*

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

**B16-168** *HFMF327*

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

**B16-170** *HFMF329*

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

**B16-171** *HFMF340*

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

**B16-174** *HFMF363*

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

**B16-179** *HFMF368*

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

**B16-183** *HFMF372*

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

**B16-180** *HFMF369*

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

*left***B16-181** *HFMF370*

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

*right*

| Right pair B16-181 *HFMF370*

| Left pair B16-180 *HFMF369*

B16-185 *HFMF381*

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



METRIC FEMALE *CONTINUED*

Drill-point seat

B16-189 *HFMF385*

Thread M10×1 port
Seat type drill-point
Hex 17 mm
Bend 45°
Overall length 54 mm



left

| Right pair B16-190 *HFMF386*

B16-190 *HFMF386*

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



right

| Left pair B16-189 *HFMF385*

Inverted seat

B16-100 *HFMF01*

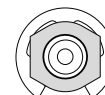
Thread M10×1 port
Seat type inverted
Hex 17 mm
Overall length 38 mm



| Low profile C16-100* *LPMF01-M10X1**
| LP stainless C16-101* *LPMF01-M10X1SS**
| * LP stem C18-105 *LPS-SI-SAE*

B16-101 *HFMF02*

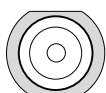
Thread M10×1 port
Seat type inverted
Hex 17 mm
Overall length 47 mm



| Low profile C16-102* *LPMF02-M10X1**
| * LP stem C18-105 *LPS-SI-SAE*

B16-103 *HFMF04*

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



| Stainless B16-104 *HFMF04SS*
| Low profile C16-103* *LPMF04**
| * LP stem C18-105 *LPS-SI-SAE*

B16-106 *HFMF06*

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



B16-111 *HFMF11*

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



| Low profile C16-109* *LPMF11**
| * LP stem C18-105 *LPS-SI-SAE*

B16-113 *HFMF14*

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



| Low profile C16-110* *LPMF14**
| * LP stem C18-105 *LPS-SI-SAE*

/// E-clips, A15-100 (*BQ12*), are on page 14.

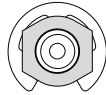
/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

METRIC FEMALE CONTINUED

Inverted seat

B16-114 HFMF15

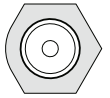
Thread M10 × 1 port
Seat type inverted
Flats 17 mm
Overall length 77 mm



| Low profile C16-111 LPMF15

B16-115 HFMF16

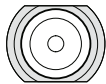
Thread M10 × 1 port
Seat type inverted
Flats 19 mm
Overall length 37 mm



| Low profile C16-119* LPMF16*
| * LP stem C18-105 LPS-SI-SAE

B16-118 HFMF20

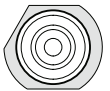
Thread M10 × 1 port
Seat type inverted
Flats 17 mm
Overall length 38 mm



| Low profile C16-112* LPMF20*
| * LP stem C18-105 LPS-SI-SAE

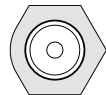
B16-122 HFMF26

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



B16-124 HFMF28

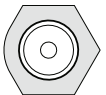
Thread M10 × 1 port
Seat type inverted
Flats 17 mm
Overall length 37 mm



| Low profile C16-114* LPMF28*
| * LP stem C18-105 LPS-SI-SAE

B16-126 HFMF31

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



B16-151 HFMF93

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



B16-155 HFMF120

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



right



| Left pair B-16-156 HFMF121

B16-156 HFMF121

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



left



| Right pair B16-155 HFMF120

METRIC FEMALE *CONTINUED*

Inverted seat

B16-163 *HFMF308*

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



B16-177 *HFMF366*

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



CLIP MOUNT M10 × 1.25

inverted seat

B16-109 *HFMF09*

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



Drill-point seat

B16-119 *HFMF21*

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



| Low profile C16-107* *LPMF09-M10X125**
| * LP stem C18-100 *LPS-LI-SAE*

CLIP MOUNT M10 × 1.5

Inverted seat

B16-161 *HFMF132*

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



CLIP MOUNT M12 × 1

Drill-point seat

B16-133 *HFMF47*

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



B16-136 *HFMF51*

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



| Low profile C16-115 *LPMF47Z*

/// E-clips, A15-100 (*BQ12*), are on page 14.
/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

METRIC FEMALE CONTINUED

Inverted seat

B16-107 HFMF07

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



B16-110 HFMF10

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



| Low profile C16-108* LPMF10*
| * *LP stem* C18-100 LPS-LI-SAE

B16-117 HFMF19

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



B16-132 HFMF43

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



B16-149 HFMF91

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



B16-150 HFMF92

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



CLIP MOUNT M12 × 1.25

Drill-point seat

B16-139 HFMF57

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



SPLINE MOUNT M10 × 1

Drill-point seat

B16-120 HFMF22

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



B16-123 HFMF27

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



/// E-clips, A15-100 (*BQ12*), are on page 14.

/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

METRIC FEMALE *CONTINUED*

BULKHEAD MOUNT M9 × 1.25

Drill-point seat

B17-105 (Citroën)

Thread	M9 × 1.25 port
Seat type	drill point
Mount thread	M14 × 1.5
Hex	19 mm
Overall length	43 mm



BULKHEAD MOUNT M10 × 1

Drill-point seat

B17-102 *HFMFX04*

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



B17-103 *HFMFX04-M16*

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



Inverted seat

B17-100 *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 BULKHEAD MOUNT M12 × 1

Inverted seat

B17-101 *HFMFX02*

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



Drill-point seat

B17-104 *HFMFX10*

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



/// Bulkhead nuts are listed in our **Automotive-Lines** catalog on page 20.

IMPERIAL MALE

JIC MALE 3/8-24 UNF

B15-128 *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 C15-106 *LPIM28-6*

JIC MALE 7/16-20 UNF

B15-129 *HFIM29*

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



| Low profile C15-107 *LPIM29-7*

BULKHEAD MOUNT 3/8-24 UNF

B15-103 *HFIM02*

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



| Low profile C15-101 *LPIM02-6*

| LP stainless C15-102 *LPIM02-6SS*

B15-107 *HFIM05*

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



B15-114 *HFIM12*

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



BULKHEAD 7/16-20 UNF

B15-108 *HFIM06*

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



CLIP MOUNT 7/16-20 UNF

B15-123 *HFIM22*

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



/// E-clips, A15-100 (*BQ12*), are on page 14.

/// Bulkhead nuts are listed in our **Automotive-Lines** catalog on page 20.

/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

IMPERIAL MALE *CONTINUED*

STANDARD 1/8-27

B15-120 *HFIM19*

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



| Stainless B15-121 *HFIM19SS*
| Low profile C15-105 *LPIM19*

NPT STANDARD 1/8-28 BSPP

B15-131 *HFIM32*

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



STANDARD 3/8-20 BSF

B15-117 *HFIM15*

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



STANDARD 3/8-24 UNF

B15-100 *HFIM01*

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



| Brass B15-101 *HFIM01B*
| Stainless B15-102 *HFIM01SS*
| Low profile C15-100 *LPIM01-6*

B15-101 *HFIM01B*

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



brass

B15-112 *HFIM10*

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



B15-113 *HFIM11*

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



B15-119 *HFIM18*

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



B15-122 *HFIM21*

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



IMPERIAL MALE *CONTINUED*

B15-125 *HFIM25*

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



B15-132 *HFIM35*

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



B15-133 *HFIM36*

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



STANDARD 7/16-20 UNF

B15-104 *HFIM03*

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



B15-111 *HFIM09*

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



| Stainless B15-105 *HFIM03SS*
| Low profile C15-103 *LPIM03-7*

B15-118 *HFIM16*

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



B15-127 *HFIM27*

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



STANDARD 7/16-24 UNS

B15-115 *HFIM13*

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



B15-116 *HFIM14*

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



| Low profile C15-104 *LPIM13-7*

IMPERIAL MALE *CONTINUED*

STANDARD 1/2-20 UNF

B15-124 *HFIM24*

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



STANDARD 11/16-16 UN

B15-106 *HFIM04*

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



METRIC MALE

BULKHEAD MOUNT M10 × 1

B18-101 *HFMM02*

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



B18-114 *HFMM18*

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



| Low profile C17-101 *LPMM02-M10X1*

B18-115 *HFMM20*

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



BULKHEAD MOUNT M10 × 1.25

B18-110 *HFMM11*

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



B18-116 *HFMM21*

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



/// Bulkhead nuts are listed in our **Automotive-Lines** catalog on page 20.

METRIC MALE CONTINUED

BULKHEAD MOUNT M12 × 1

B18-108 HFMM09

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



BULKHEAD MOUNT M12 × 1.5

B18-109 HFMM10

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



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.

B18-111 HFMM12

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



B18-120 HFMM303

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



/// E-clips, A15-100 (*BQ12*), are on page 14.

/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

STANDARD M10 × 1

B18-100 HFMM01

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



| Low profile C17-100 LPMM01-M10X1

B18-102 HFMM03

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



| Low profile C17-102 LPMM03-M10X1
| LP zinc-nickel C17-103 LPMM03-M10X1Z

B18-105 HFMM06

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



| Stainless B18-106 HFMM06SS
| Low profile C17-105 LPMM06-M10X1

B18-107 HFMM08

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



METRIC MALE *CONTINUED*

B18-117 *HFMM22*

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



| LP zinc-nickel C17-106 *LPMM22Z*

STANDARD M10 × 1.25

B18-103 *HFMM04*

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



| Low profile C17-104 *LPMM04-M10X125*

STANDARD M10 × 1.5

B18-119 *HFMM24*

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



STANDARD M12 × 1

B18-104 *HFMM05*

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



B18-112 *HFMM13*

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



STANDARD M12 × 1.25

B18-113 *HFMM17*

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



CENTER SUPPORT

BRACKET MOUNT

B12-102 *HFC04*

Mount hole 6.5 mm
Width 39 mm
Overall length 30 mm



B12-103 *HFC05*

Mount 8.5 mm
Width 20 mm
Overall length 30 mm



| Low profile C12-101 *LPC05*

B12-127 *HFC339*

Mount hole 9 mm
Width 18 mm
Overall length 53 mm



| Left pair B12-126 *HFC338*

B12-133 *HFC346*

Mount hole 10 mm
Width 100 mm
Overall length 44 mm



| Left pair B12-132 *HFC345*

B12-134 *HFC347*

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



CENTER SUPPORT CONTINUED

CLIP MOUNT

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

B12-100 HFC01

Hex 17 mm
Width 17 mm
Overall length 33 mm



| Low profile C12-100 LPC01

B12-101 HFC02

Hex 17 mm
Width 17 mm
Overall length 34 mm



B12-104 HFC06

Flats 17 mm
Width 17 mm
Overall length 34 mm



| Low profile C12-102 LPC06

B12-105 HFC07

Flats 19 mm
Width 19 mm
Overall length 35 mm



| Low profile C12-103 LPC07

B12-107 HFC10

Hex 19 mm
Width 19 mm
Overall length 35 mm



B12-108 HFC12

Flats 17 mm
Width 17 mm
Overall length 35 mm



B12-163 HFC13

Flats 17 mm
Width 17 mm
Overall length 35 mm



B12-110 HFC17

Flats 16 mm
Width 16 mm
Overall length 37 mm



| Low profile C12-106 LPC17

B12-114 HFC301A

Width 20 mm
Overall length 33 mm



| Low profile C12-107 LPC301
| LP zinc-nickel C12-108 LPC301Z

B12-115 HFC307

Flats 16.8 mm
Width 19 mm
Overall length 36 mm



/// E-clips, A15-100 (BQ12), are on page 14.
/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

BRACKETS

FITTING BRACKETS ATTACH WITH CLIP

A15-200 *BQB01*

Mount hole 9 mm



A15-203 *BQB06*

Mount hole 5 mm



A15-268 *BQB244*

Mount hole 6.8 mm



/// Retaining clips are listed in our **Automotive-Lines** catalog on page 22.

FITTING BRACKETS ATTACH WITH SCREWS

A15-202 *BQB05*

Mount hole 9 mm



A15-204 *BQB07*

Mount hole 12.4 mm



A15-207 *BQB10*

Mount hole 9.6 mm



left

A15-208 *BQB11*

Mount hole 9.6 mm



right

| Right pair A15-208 *BQB11*

| Left pair A15-207 *BQB10*

A15-217 *BQB29*

Mount hole 9.6 mm



A15-238 *BQB86*

Mount hole 8.5 mm



| Right pair A15-239 *BQB87*

A15-239 *BQB87*

Mount hole 8.5 mm



| Left pair A15-238 *BQB86*

A15-240 *BQB88*

Mount hole 7.7 mm



A15-251 *BQB119*

Mount hole 9.2 mm



left

A15-252 *BQB120*

Mount hole 9.2 mm



right

| Right pair A15-252 *BQB120*

| Left pair A15-251 *BQB119*

/// Find **Bracket Retaining Screws**, A36-125 (*BQ71*), on page 14.

BRACKETS *CONTINUED*

CENTER BRACKETS

A15-213 *BQB23*

Mount hole 8.8 mm



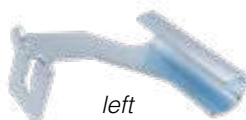
A15-227 *BQB48*

Mount hole 6.4 mm



A15-220 *BQB36*

Mount hole 8.4 mm



left

A15-221 *BQB37*

Mount hole 8.4 mm



right

| Right pair A15-221 *BQB37*

| Left pair A15-220 *BQB36*

CENTERS WITH GROMMET

The following center brackets include the A15-125 (*BQ234*) grommet pictured.

A15-219 *BQB31*

Mount hole 8.6 mm



A15-263 *BQB221*

Mount hole 9 mm



A15-262 *BQB195*

Mount hole 9 mm



left

| Right pair A15-261 *BQB174*

A15-264 *BQB222*

Mount hole 9 mm



right

| Left pair A15-265 *BQB223*

A15-265 *BQB223*

Mount hole 9 mm



left

| Right pair A15-264 *BQB222*

A15-266 *BQB224*

Mount hole 9 mm



right

| Left pair A15-267 *BQB225*

A15-267 *BQB225*

Mount hole 9mm



left

| Right pair A15-266 *BQB224*

LOW PROFILE

Hose

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HOSE

BRAIDED BRAKE HOSE

Unjacketed Braided Hose

C00-105 *BQ301* For off-road use only.

Jacketed Braided Hose

C00-104 *BQ302BK* Solid black jacket

C00-100 *BQ303* Clear jacket

C00-103 *BQ303RD* Red jacket

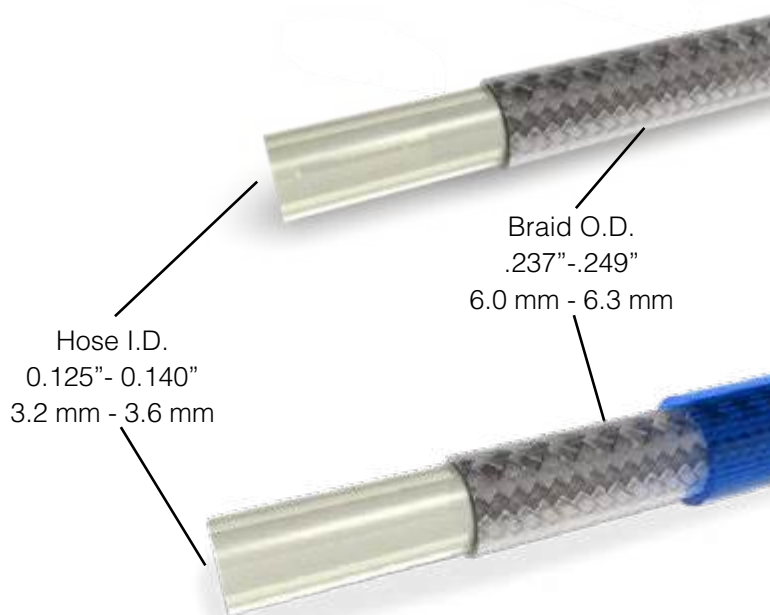
C00-102 *BQ303BL* Blue jacket

C00-101 *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 SKIVING TOOL

A12-113 *BQ2104*



A12-114 *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

C10-138 *LP121*

- | LP stainless C10-139 *LP121SS*
- | LP zinc-nickel C10-140 *LP121Z*



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

FEMALE SWIVEL 3/8-24 UNF

C10-108 *LP09W-6*

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



wire-lock

- | Standard B10-112 *HF09W*
- | LP chrome C10-109 *LP09W-6C*

C10-110 *LP10W-6*

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



wire-lock

- | Standard B10-113 *HF10*
- | In chrome C10-111 *LP10W-6C*

C10-112 *LP11-6*

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



- | Standard B10-114 *HF11*
- | Stainless B10-115 *HF11SS*
- | Alternative C10-113 *LP11W-6*

C10-113 *LP11W-6*

- Thread 3/8-24 UNF
- Flare 37° double
- Bend 90°
- Tube size 1/4"
- Overall length 56 mm



wire-lock

- | LP chrome C10-114 *LP11W-6C*
- | Alternative C10-112 *LP11-6*

FEMALE SWIVEL 7/16-20 UNF

C10-115 *LP12W-7*

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



wire-lock

- | Standard B10-116 *HF12*
- | Stainless B10-117 *HF12SS*
- | LP chrome C10-116 *LP12W-7C*

C10-117 *LP13W-7*

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



wire-lock

- | Standard B10-118 *HF13*
- | Stainless B10-119 *HF13SS*
- | LP chrome C10-118 *LP13W-7C*

GENERAL FITTINGS *CONTINUED*

C10-119 *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 B10-120 *HF14*
 | LP chrome C10-120 *LP14W-7C*

FEMALE SWIVEL M10 × 1

C10-146 *LP128W*

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



wire-lock

MALE SWIVEL 3/8-24 UNF

C10-122 *LP16-6*

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



| Standard B10-123 *HF16*
 | Brass B10-174 *HF157BT*
 | Stainless B10-124 *HF16SS*
 | LP chrome C10-123 *LP16-6C*
 | LP stainless C10-124 *LP16-6SS*

C10-125 *LP17-6*

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



| Standard B10-125 *HF17*
 | Stainless B10-126 *HF17SS*
 | LP chrome C10-126 *LP17-6C*
 | LP stainless C10-127 *LP17-6SS*

C10-128 *LP33-6*

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



| Standard B10-134 *HF33*
 | Stainless B10-183 *HF33SS*
 | LP chrome C10-129 *LP33-6C*
 | LP stainless C10-130 *LP33-6SS*

C10-133 *LP45-6*

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



| Stainless B10-141 *HF45SS*
 | LP chrome C10-134 *LP45-6C*

GENERAL FITTINGS *CONTINUED*

C10-152 *LP46-6*

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



| LP chrome C10-135 *LP46-6C*

MALE SWIVEL 7/16-24 UNS

C10-105 *LP06-7*

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



| Standard B10-106 *HF06*

C10-106 *LP07-7*

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



C10-121 *LP15-7*

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



MALE SWIVEL M10 × 1

C10-107 *LP08Z*

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



zinc-nickel

C10-131 *LP34-M10X1*

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



| Standard B10-135 *HF34*

| LP stainless C10-132 *LP34-M10X1SS*

GENERAL FITTINGS *CONTINUED*

C10-136 *LP82-M10X1*

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



| Standard B10-151 *HF82*
| LP zinc-nickel C10-137 *LP82-M10X1Z*

C10-143 *LP125*

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



| Standard B10-175 *HF158*

C10-144 *LP126*

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



C10-145 *LP127*

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



MALE SWIVEL M10 × 1.25

C10-147 *LP145-M10X125*

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



CRIMP TEE

C10-141 *LP124*

Mount hole 8mm



| LP stainless C10-142 *LP124SS*

GENERAL FITTINGS *CONTINUED*

LIFESAVER

C10-100 *LP01-3*

Tube size 3/16"



- | Standard B10-100 *HF01*
- | Stainless B10-101 *HF01SS*
- | LP stainless C10-153 *LP01-3SS*

C10-101 *LP01-4*

Tube size 1/4"



- | Standard B10-128 *HF26*

C10-102 *LP01-5*

Tube size 5/16"



- | Standard B10-129 *HF27*

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

UNIVERSAL

C10-103 *LP02*

Tube size 3/16"

Overall length 105mm



- | Standard B10-102 *HF02*

C10-104 *LP03*

Tube size 1/4"

Overall length 105mm



- | Standard B10-103 *HF03*

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

CLUTCH

C10-148 *LP156*

- | Standard B10-160 *HF114*

O-Ring included.



GENERAL FITTINGS CONTINUED

STEMS FEMALE SEAT

Part Number	Image	Seat type	Spec	Length	Common Fitments
C18-105 <i>LPS-SI-SAE</i>		Inverted	SAE	Short	C13-100, C13-107, C16-100, C16-106 <i>LPIF01, LPIF02, LPMF01, LPMF09</i>
C18-100 <i>LPS-LI-SAE</i>		Inverted	SAE	Long	C16-102 <i>LPMF02</i>
C18-101 <i>LPS-SD-DIN</i>		Drill-point	DIN	Short	C16-106 <i>LPMF08</i>
C18-104 <i>LPS-SI-JIC</i>		Inverted	JIC	Short	
C18-102 <i>LPS-SD-JIC</i>		Drill-point	JIC	Short	

STEMS TUBE STYLE

Part Number	Image	Spec	Length	Tube Nuts
C18-106 <i>LPS-T-DIN</i>		DIN	Tube	Use with A17-102 or A17-103 <i>BQ9150 BQ9151</i>
C18-107 <i>LPS-T-JIC</i>		JIC	Tube	Use with A17-102 or A17-103 <i>BQ9150 BQ9151</i>

TUBE NUTS FOR LOW PROFILE STEMS

Part Number	Image	Thread	Thread Depth	Hex
A17-102 <i>BQ9150</i>		7/16-20 UNF	12.25mm	9/16"
A17-103 <i>BQ9151</i>		3/8-24 UNF	10.25mm	7/16"

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

BLOCK BANJO

10 MM HOLE

C11-122 *LPB12-10M*

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



| Standard B11-108 *HFB12*

C11-123 *LPB14*

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



| Standard B11-110 *HFB14*

C11-135 *LPB493-10M*

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



left

| Standard B11-282 *HFB493*
 | Right pair C11-136 *LPB494-10M*

C11-136 *LPB494-10M*

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



right

| Standard B11-283 *HFB494*
 | Left pair C11-135 *LPB493-10M*

ROUND BANJO

8MM HOLE

C11-124 *LPB27-8M*

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



bendable to 45°

| Standard B11-118 *HFB27*

ROUND BANJO *CONTINUED*

10 MM HOLE 17 MM WIDTH

C11-100 *LPB01-10M*

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



C11-106 *LPB01-20-10M*

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



Standard	B11-100 <i>HFB01</i>
LP chrome	C11-104 <i>LPB01-10MC</i>
LP stainless	C11-105 <i>LPB01-10MSS</i>
Anodized aluminum	
Black	C11-101 <i>LPB01-10MABK</i>
Blue	C11-102 <i>LPB01-10MABL</i>
Red	C11-103 <i>LPB01-10MARD</i>



C11-107 *LPB01-45-10M*

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



Anodized aluminum	
Black	C11-108 <i>LPB01-45-10MABK</i>
Blue	C11-109 <i>LPB01-45-10MABL</i>
Red	C11-110 <i>LPB01-45-10MARD</i>



C11-111 *LPB01-75-10M*

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



C11-112 *LPB01-90-10M*

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



Standard	B11-121 <i>HFB32</i>
Anodized aluminum	
Black	C11-113 <i>LPB01-90-10MABK</i>
Blue	C11-114 <i>LPB01-90-10MABL</i>
Red	C11-115 <i>LPB01-90-10MARD</i>



C11-134 *LPB455-10M*

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



Standard	B11-196 <i>HFB194</i>
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ROUND BANJO *CONTINUED*

C11-138 *LPB653*

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

*side bend*

C11-139 *LPB654*

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

*side bend*

C11-140 *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

C11-116 *LPB09-10M*

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

*bendable to 45°*

- | Standard B11-104 *HFB09*
- | Stainless B11-105 *HFB09SS*
- | LP chrome C11-117 *LPB09-10MC*
- | LP stainless C11-118 *LPB09-10MSS*

C11-120 *LPB09-75-10M*

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



C11-121 *LPB09-90-10M*

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



C11-126 *LPB171-10M*

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



C11-141 *LPB656*

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

*side bend*

- | LP chrome C11-127 *LPB171-10MC*

ROUND BANJO *CONTINUED*

C11-142 *LPB657*

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



side bend

C11-143 *LPB658*

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



side bend

11 MM HOLE

C11-128 *LPB178-7*

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



| LP chrome C11-129 *LPB178-7C*

12 MM HOLE

C11-125 *LPB47-12M*

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



bendable to 45°

| Standard B11-275 *HFB448*
| LP stainless C11-133 *LPB448-7SS*

7/16" HOLE

C11-130 *LPB448-7*

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



bendable to 45°

| Standard B11-275 *HFB448*
| LP stainless C11-133 *LPB448-7SS*

C11-131 *LPB448-45-7*

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



C11-132 *LPB448-90-7*

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



| Standard B11-339 *HFB681*

C11-137 *LPB652*

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



side bend

| Standard B11-340 *HFB682*

IMPERIAL FEMALE

STANDARD MOUNT

C13-107 *LPIF126-6*

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



| LP chrome C13-108 *LPIF126-6C*

BULKHEAD MOUNT

C14-100 *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.

C13-100 *LPIF01*

Thread 3/8-24 UNF port
 Seat type inverted
 Hex 19 mm
 Overall length 41.5 mm



| Standard B13-100 *HFIF01*
 | Brass B13-101 *HFIF01B*
 | Stainless B13-102 *HFIF01SS*
 | Alternative C13-101* *LPIF01-6**
 | *LP stem C18-105 *LPS-SI-SAE*

C13-101 *LPIF01-6*

Thread 3/8-24 UNF port
 Hex 17 mm



| LP chrome C13-102 *LPIF01-6C*
 | LP stainless C13-103 *LPIF01-6SS*

C13-105 *LPIF05*

Thread 3/8-24 UNF port
 Hex 19 mm



C13-106 *LPIF10*

Thread 3/8-24 UNF port
 Flats 16 mm



C13-104 *LPIF02-7*

Thread 7/16-24 UNS port
 Hex 17 mm



METRIC FEMALE

STANDARD MOUNT M10 ×1

C16-117 *LPMF62Z*

Thread M10×1 port
Flats 17 mm



BOLT MOUNT M10 ×1

C16-116 *LPMF48*

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



C16-118 *LPMF322-M10X1*

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



| Standard B16-134 *HFMF48*

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

CLIP MOUNT M10 ×1

C16-104 *LPMF05-M10X1*

Thread M10 × 1 port
Hex 14 mm



C16-106 *LPMF08-M10X1*

Thread M10 × 1 port
Hex 17 mm



LP zinc-nickel C16-105 *LPMF05-M10X1Z*

C16-109 *LPMF11*

Thread M10 × 1 port
Flats 19 mm



METRIC FEMALE *CONTINUED*

C16-110 *LPMF14*

Thread M10×1 port
Flats 17 mm



C16-111 *LPMF15*

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



| Standard B16-191 *HFMF393*

C16-119 *LPMF16*

Thread M10×1 port
Flats 19 mm



C16-112 *LPMF20*

Thread M10×1 port
Flats 17 mm



C16-113 *LPMF24*

Thread M10 × 1 port
Flats 19 mm



C16-114 *LPMF28*

Thread M10 × 1 port
Flats 17 mm



CLIP MOUNT M10 ×1.25

C16-107 *LPMF09-M10X125*

Thread M10 × 1.25 port
Hex 17 mm



CLIP MOUNT M12 ×1

C16-108 *LPMF10*

Thread M12×1 port
Hex 19 mm



IMPERIAL MALE

JIC MALE 3/8-24 UNF

C15-106 *LPIM28-6*

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



| Standard B15-128 *HFIM28*

JIC MALE 7/16-20 UNF

C15-107 *LPIM29-7*

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



| Standard B15-129 *HFIM29*

BULKHEAD MOUNT 3/8-24 UNF

C15-101 *LPIM02-6*

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



| Standard B15-103 *HFIM02*

| LP stainless C15-102 *LPIM02-6SS*

STANDARD MOUNT 3/8-24 UNF

C15-100 *LPIM01-6*

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



| Standard B15-100 *HFIM01*

| Brass B15-101 *HFIM01B*

| Stainless B15-102 *HFIM01SS*

STANDARD 7/16-20 UNF

C15-103 *LPIM03-7*

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



| Standard B15-104 *HFIM03*

| Stainless B15-105 *HFIM03SS*

STANDARD 7/16-24 UNS

C15-104 *LPIM13-7*

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



| Standard B15-115 *HFIM13*

STANDARD NPT

C15-105 *LPIM19*

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



| Standard B15-120 *HFIM19*

| Standard B15-121 *HFIM19SS*

METRIC MALE

BULKHEAD MOUNT M10 ×1

C17-101 *LPMM02-M10X1*

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



| Standard B18-101 *HFMM02*

STANDARD MOUNT M10 ×1

C17-100 *LPMM01-M10X1*

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



| Standard B18-100 *HFMM01*

C17-105 *LPMM06-M10X1*

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



| Standard B18-105 *HFMM06*
| Stainless B18-106 *HFMM06SS*

C17-106 *LPMM22Z*

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



zinc-nickel

| Standard B18-105 *HFMM06*

STANDARD MOUNT M10 ×1.25

C17-104 *LPMM04-M10X125*

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



| Standard B18-103 *HFMM04*

CENTER SUPPORT

BRACKET MOUNT

C12-101 *LPC05*

Mount hole 8.5 mm
Width 20 mm
Overall length 29 mm



| Standard B12-103 *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.

C12-100 *LPC01*

Width 17 mm
Hex 17 mm
Overall length 33 mm



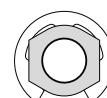
| Standard B12-100 *HFC01*

C12-102 *LPC06*

Width 17 mm
Flats 17 mm
Overall length 34 mm

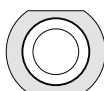


| Standard B12-104 *HFC06*



C12-103 *LPC07*

Width 19 mm
Flats 19 mm
Overall length 36 mm



| Standard B12-105 *HFC07*

C12-104 *LPC09*

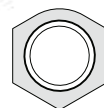
Width 17 mm
Flats 17 mm
Overall length 34 mm



| Standard B12-106 *HFC09*

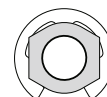
C12-105 *LPC12*

Width 17 mm
Flats 17 mm
Overall length 36 mm



C12-106 *LPC17*

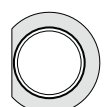
Width 16 mm
Flats 16 mm
Overall length 37 mm



| Standard B12-110 *HFC17*

C12-107 *LPC301*

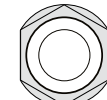
Width 20 mm
Flats 20 mm
Overall length 33 mm



| Standard B12-114 *HFC301A*
| LP zinc-nickel C12-108 *LPC301Z*

C12-109 *LPC331*

Width 20 mm
Flats 20 mm
Overall length 33 mm



| Standard B12-125 *HFC331*

/// E-clips, A15-100 (*BQ12*), are on page 14.

POWER STEERING

Hose

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HOSE

HIGH PRESSURE

High Pressure Power Steering Hose, Rubber

D00-100 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

Hose I.D.
3/8"
9.5 mm

Hose O.D.
23/32"
18.25 mm



Compatible with petroleum based power steering and transmission oils.

LOW PRESSURE

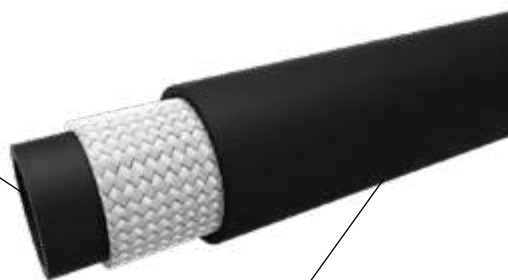
Low Pressure Power Steering Hose, Rubber

D00-101 PS331

Carriers	24
Wires per Carrier	4
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

Hose I.D.
3/8"
9.5 mm

Hose O.D.
23/32"
18.25 mm



Compatible with petroleum based oils.

RUBBER BRAKE HOSE CUTTERS

A12-118

BQ2102



A12-112

BQ2103



The blade has two cutting points for double life.

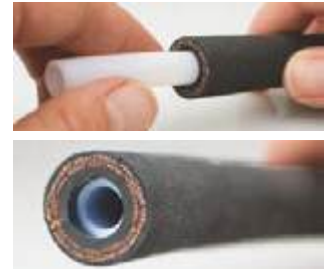
Replacement blade
A13-136 (BQ2101B)

ACCESSORIES

RESTRICTOR TUBE

D14-100 *BQ801*

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



ADAPTERS BUMP TUBE

These adapters are for power steering and fuel systems.

Male to O-ring Pilot O-ring pilot includes a high-temperature Viton O-ring.

Stud Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
1/2-20 UNF (-05 JIC)	1/2-20 UNF	9/16"	37.4mm	D13-100 <i>5MBT-5MJ</i>
9/16-18 UNF (-06 JIC)	11/16-18 UNS	3/4"	41.9mm	D13-101 <i>7MBT-6MJ</i>
9/16-18 UNF (-06 JIC)	M14×1.5	5/8"	38.8mm	D13-102 <i>14MMBT-6MJ</i>
9/16-18 UNF (-06 JIC)	M16×1.5	17mm	38.9mm	D13-104 <i>16MMBT-6MJ</i>
9/16-18 UNF (-06 JIC)	M18×1.5	3/4"	39.4mm	D13-106 <i>18MMBT-6MJ</i>



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)	3/4"	32.1mm	D13-105 <i>16MMORB-6MJ</i>



Female to O-ring Pilot O-ring pilot includes a high-temperature Viton O-ring.

Port Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
5/8-18 UNF	M16×1.5	3/4"	30.8mm	D13-103 <i>16MMBT-6FI</i>

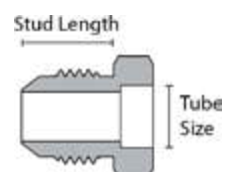


/// Bump Tube Adapter Assortment Kit, A38-103 (*BQ7003*), is on page 29 in our **Automotive-Lines** catalog.

ADAPTERS BRAZE-ON FITTINGS

-06 JIC

Thread	Type	Tube Size	Stud Length	Hex	Material	Part Number
9/16-18 UNF	-06 JIC	3/8"	14.1mm	5/8"	Aluminum	A22-103 <i>BQ170</i>
9/16-18 UNF	-06 JIC	3/8"	14.1 mm	5/8"	Steel	A22-112 <i>BQ226</i>
9/16-18 UNF	-06 JIC	1/2"	14.1 mm	11/16"	Steel	A22-114 <i>BQ228</i>
9/16-18 UNF	-06 JIC	10 mm	14.1 mm	5/8"	Steel	A22-113 <i>BQ227</i>



/// Braze-On Fittings, are listed in our **Automotive-Lines** catalog on page 18.

FITTINGS

BANJO

D11-100 *PSHFB130*

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



D11-101 *PSHFB132*

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



D11-102 *PSHFB133*

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



D11-103 *PSHFB134*

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



D11-104 *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

D10-114 *PSHF116*

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



D10-115 *PSHF117*

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



D10-113 *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

D10-106 *PSHF106*

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



Use with A22-112 (BQ226) or A22-113 (BQ227) braze-on fittings or with bump tube adapters.

D10-126 *PSHF142*

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



D10-112 *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

D10-116 *PSHF118*

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



D10-119 *PSHF121*

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



MALE SWIVEL 1/2-20 UNF

D10-117 *PSHF119*

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



D10-120 *PSHF122*

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



D10-123 *PSHF125*

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



FITTINGS *CONTINUED*

MALE SWIVEL 5/8-18 UNF

D10-118 *PSHF120*

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



D10-121 *PSHF123*

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



D10-124 *PSHF126*

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



MALE SWIVEL M16 ×1.5

D10-127 *PSHF146*

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



METRIC FEMALE

D10-108 *PSHF108*

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



METRIC MALE

D12-100 *PSHFMM131*

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



CENTER SUPPORT

D10-100 *PSHF100*

Overall length 27 mm



FITTINGS *CONTINUED*

BRAZE-ON LIFESAVER

D10-101 *PSHF101*

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



D10-105 *PSHF105*

Tube size 11 mm
Hex 5/8"
Overall length 47 mm



D10-109 *PSHF109*

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



D10-102 *PSHF102*

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



D10-107 *PSHF107*

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



D10-110 *PSHF111*

Tube size 12 mm
Hex 16 mm
Overall length 44 mm



pack of 8

PRE-FLUXED BRAZING RODS

Silver

A13-143 *BQ33*

For professional brazing of steel, stainless, brass, or any combination of these metals. Designed for brazing high-pressure fittings. No cadmium. 18" long.

COMPRESSION

D10-103 *PSHF103*

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



D10-111 *PSHF112*

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



D10-104 *PSHF104*

Tube size 10 mm
Hex 16 mm
Overall length 65 mm



INDEX ***SORTING BY AVPAAS NUMBERS***

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PART INDEX

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			A15-131	BQ251-GR	12	B10-116	HF12	16
			A15-132	BQ251-PP	12	B10-117	HF12SS	16
			A15-133	BQ251-RD	12	B10-118	HF13	16
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			A15-136	BQ294	14	B10-121	HF15	18
			A15-200	BQB01	68	B10-122	HF15SS	18
			A15-202	BQB05	68	B10-123	HF16	17
			A15-203	BQB06	68	B10-124	HF16SS	17
			A15-204	BQB07	68	B10-125	HF17	17
			A15-207	BQB10	68	B10-126	HF17SS	17
			A15-208	BQB11	68	B10-127	HF18	19
			A15-213	BQB23	69	B10-128	HF26	22
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			A15-219	BQB31	69	B10-130	HF28	19
			A15-220	BQB36	69	B10-131	HF29	19
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			A15-238	BQB86	68	B10-134	HF33	17
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			A15-240	BQB88	68	B10-136	HF35	24
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			A15-263	BQB221	69	B10-140	HF43SS	17
			A15-264	BQB222	69	B10-141	HF45SS	17
			A15-265	BQB223	69	B10-142	HF61	15
			A15-266	BQB224	69	B10-143	HF62	24
			A15-267	BQB225	69	B10-144	HF63	17
			A15-268	BQB244	68	B10-145	HF71	23
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			A22-113	BQ227	90	B10-163	HF117	20
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