

Lightweight Swivel Hose Ends for Teflon Hose

Because today's fuels contain a wide variety of unpublished additives and increasing amounts of alcohol, accelerated hose degradation including: vapor, weeping, and swelling can occur with traditional rubber based hose products. This issue is best addressed by using PTFE (Teflon) lined hose which is inert to all fluids used in motor vehicles. This type of hose has long been the standard for -3AN and -4AN high pressure brake and hydraulic applications, however in the larger -6AN and -8AN sizes it lacks popularity due to a limited range of hose fittings (usually heavy steel non-swivel industrial type fittings). This is why we are happy to announce the immediate availability of our range of -4AN, -6AN and -8AN light alloy swivel hose ends specific for industry standard PTFE (Teflon) lined stainless steel braided exterior hose. We are currently stocking fittings in our house color (black/titanium)



00° Straight Hose End For Teflon Hose



-AN size	part #	price \$
-4AN	TS-4T	\$9.20
-6AN	TS-6T	\$9.45
-8AN	TS-8T	\$11.550

45° Degree Hose End For Teflon Hose



-AN size	part #	price \$
-4AN	T45-4T	\$16.15
-6AN	T45-6T	\$18.90
-8AN	T45-8T	\$22.75

swivel type hose end

90° Degree Hose End For Teflon Hose



-AN size	part #	price \$
-4AN	T90-4T	\$16.15
-6AN	T90-6T	\$18.90
-8AN	T90-8T	\$22.75

swivel type hose end

120° Degree Hose End For Teflon Hose



-AN size	part #	price \$
-6AN	T120-6T	\$24.70
-8AN	T120-8T	\$27.85

150° Degree Hose End For Teflon Hose



-AN size	part #	price \$
-6AN	T150-6T	\$24.70
-8AN	T150-8T	\$27.85

180° Degree Hose End For Teflon Hose



-AN size	part #	price \$
-6AN	T180-6T	\$24.70
-8AN	T180-8T	\$27.85

00° Straight Female to -AN Hose

-A- -B- Part #

-3AN	-3AN	FS-3T
-4AN	-4AN	FS-4T
-5AN	-5AN	FS-5T
-6AN	-6AN	FS-6T
-8AN	-8AN	FS-8T
-3AN	1/8BSP	ABS3ST
-3AN	1/8 Smiths*	ABS3STF
-4AN	1/4BSP	ABS4ST
-6AN	-6AN	FS-6T
-8AN	-8AN	FS-8T
-3AN	M10 x 1.0	FS-1013T
-4AN	M12 x 1.5	

*Refers to the special sealing surface found on Smiths brand gauges. Thread is BSP, but seal is flat with a raised "tit".

45° Degree Female to -AN Hose

-A- -B- Part #

-3AN	-3AN	F45-3T
-4AN	-4AN	F45-4T
-6AN	-6AN	F45-6T
-8AN	-8AN	F45-8T
-3AN	1/8BSP	ABS345
-3AN	1/8 Smiths*	ABS345F
-4AN	1/4BSP	ABS445
-6AN	-6AN	F45-6T
-8AN	-8AN	F45-8T
-3AN	M10 x 1.0	F45-1013T

*Refers to the special sealing surface found on Smiths brand gauges. Thread is BSP, but seal is flat with a raised "tit".

90° Degree Female to -AN Hose

-A- -B- Part #

-3AN	-3AN	F90-3T
-4AN	-4AN	F90-4T
-6AN	-6AN	F90-6T
-8AN	-8AN	F90-8T
-3AN	1/8BSP	ABS390
-3AN	1/8 Smiths*	ABS390F
-4AN	1/4BSP	ABS490
-6AN	-6AN	F90-6T
-8AN	-8AN	F90-8T
-3AN	M10 x 1.0	F90-1013T

*Refers to the special sealing surface found on Smiths brand gauges. Thread is BSP, but seal is flat with a raised "tit".

Fittings for Teflon Interior Hose

We stock a variety of reuseable hose end fittings suitable for (TFE) Teflon interior hose. Reuseable TFE hose ends are 3 piece construction consisting of: nipple (main fitting part), sleeve (olive), and socket (nut). Most are constructed in mild STEEL with a plated sliver or gold finish.

Applications for TFE hose are: hydraulic brake & clutch, fuel & oil pressure gauges, power steering, nitrous oxide, suspension shock, and fire system plumbing. Hose and fittings are available in AN -3, -4, -6, -8 sizes, with AN -3 and -4 being most popular.

45° Degree Forged Swivel to -AN Hose

-A- -B- Part #

-3AN	-3AN	F45-3FT
-4AN	-4AN	F45-4FT

90° Degree Forged Swivel to -AN Hose

-A- -B- Part #

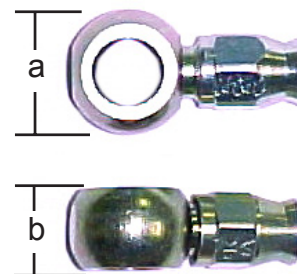
-3AN	-3AN	F90-3FT
-4AN	-4AN	F90-4FT



BAT Inc. 7630 Matoaka Road. Sarasota, FL 34243
phone (941) 355-0005 fax (941) 355-4683

Banjo Fittings for -3AN / -4AN TFE Hose

We can supply a wide range of banjo fittings for teflon lined (TFE) hose. Common applications include: high pressure hydraulic brake & clutch lines, turbo oil feed lines, fuel & oil pressure gauge lines, nitrous lines. Banjos are available in male (to connect to female hose ends) or direct to hose versions. The "series" refers to the "ball" end size: series 1 ball end diameter (a) = .650-700" and profile across flats (b) = .325"-.400"; series 2 ball end diameter (a) = .750" and profile across flats (b) = .450"-.500".

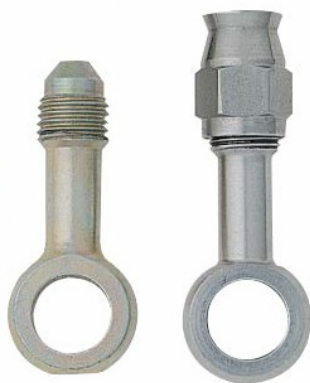


Banjo - Short Neck



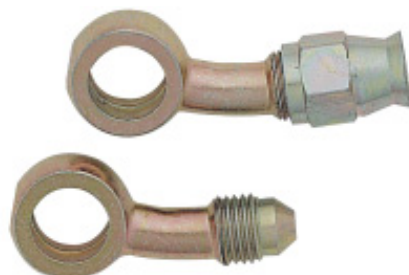
Bolt Size	Series	End Fitting	Part#
10mm, 3/8"	1	-3 hose	BJ103HS
10mm, 3/8"	1 or 2	-3 male	BJ103MS
7/16"	2	-3 hose	BJ7/163HS
7/16"	2	-3 male	BJ7/163MS
7/16"	2	-4 hose	BJ7/164HS
7/16"	2	-4 male	BJ7/164MS
12mm	2	-3 hose	BJ123HS
12mm	2	-3 male	BJ123MS
12mm	2	-4 hose	BJ124HS
12mm	2	-4 male	BJ124MS

Banjo - Extended Neck



Bolt Size	Series	End Fitting	Part#
10mm, 3/8"	1	-3 hose	BJ103HE
10mm, 3/8"	1	-3 male	BJ103ME
10mm, 3/8"	1	-4 hose	BJ104HE
10mm, 3/8"	1	-4 male	BJ104ME
7/16"	2	-3 hose	BJ7/163HE
7/16"	1 or 2	-3 male	BJ7/163ME
7/16"	2	-4 hose	BJ7/164HE
7/16"	2	-4 male	BJ7/164ME
12mm	1*	-3 male	BJ123ME

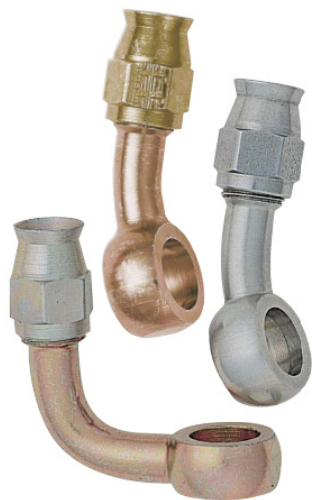
Banjo - 20 Degree Side Bent Neck



Bolt Size	Series	End Fitting	Part#
10mm, 3/8"	1	-3 hose	CALL
10mm, 3/8"	1	-3 male	BJ103ME2S

Banjo Fittings for -3AN / -4AN TFE Hose (continued)

Banjo - Bent Neck 20 Degree, 35/40 Degree, 90 Degree



20
degree

Bolt Size	Series	End Fitting	Part#
10mm, 3/8'	1	-3 hose	BJ103HE2
10mm, 3/8"	1	-3 male	BJ103ME2
10mm, 3/8'	1	-4 hose	BJ104HE2
10mm, 3/8"	1	-4 male	BJ104ME2
7/16	2	-3 hose	BJ7/163HE2
7/16	2	-3 male	BJ7/163ME2
7/16	2	-4 hose	BJ7/164HE2
7/16	2	-4 male	BJ7/164ME2

Banjo to -AN Hose



35/40
degree

Bolt Size	Series	End Fitting	Part#
10mm, 3/8"	1	-3 hose	BJ103HE3
10mm, 3/8"	1	-3 male	BJ103ME3
10mm, 3/8"	1	-4 hose	BJ104HE3
10mm, 3/8"	1	-4 male	BJ104ME3
7/16"	1*	-3 hose	BJ7/163HE3
7/16"	1*	-3 male	BJ7/163ME3
12mm	1*	-3 male	BJ123ME3

Note: (1*) ball diameter .750", flat to flat .400"

Banjo to -AN Male

90
degree

Bolt Size	Series	End Fitting	Part#
10mm, 3/8"	1	-3 hose	BJ103HE9
10mm, 3/8"	1	-3 male	BJ103ME9
10mm, 3/8"	1	-4 hose	BJ104HE9
10mm, 3/8"	1	-4 male	BJ104ME9
7/16"	1*	-3 hose	BJ7/163HE9
7/16"	1*	-3 male	BJ7/163ME9
12mm	1*	-3 male	BJ123ME9

Note: (1*) ball diameter .750", flat to flat .400"



We assemble custom hoses.
Call for quote.



Banjo Fittings for -3AN / -4AN TFE Hose (continued)

Banjo Bolt (STEEL)

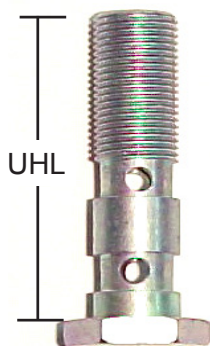


UHL= under head length

Thread	Series	UHL	Part#
1/8" BSP	1, 2	.975"	BJB1/8
3/8"-24	1, 2	.950"	BJB3/8
3/8"-24	1	.775"	BJB3/8S
7/16"-20	2	1.150"	BJB7/16-20
7/16"-20	1, 2	.950"	BJB7/16-24
9/16"-18		.875"	BJB9/16-18
M10x1.5	1	.775"	BJBM10
M8x1.0*	1	.775	BJBM10/8*
M10x1.0	1	.775"	BJBM101
M10x1.25	1	.775"	BJB1012
M10x1.0	2	.945"	BJBM101L
M10x1.5	2	.945"	BJBM10L
M12x1.25	2	.950	BJBM1212S
M12x1.0	2	.950	BJBM121S
M12x1.5	2	.950	BJBM12S

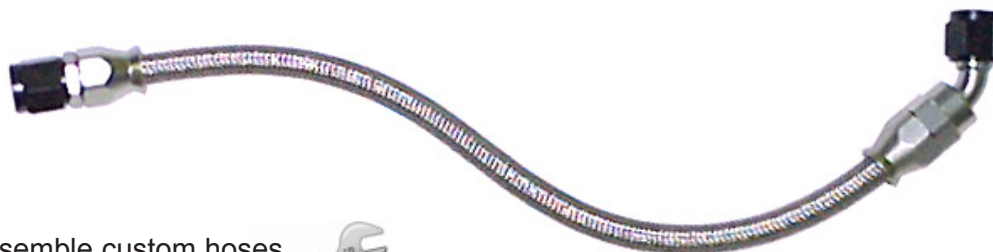
*special bolt for 3/8", 10mm banjos with 8mm 1.0 thread.

Banjo Bolt Double (STEEL)



UHL= under head length

Thread	Series	UHL	Part#
1/8" BSP	2	1.550"	BJB1/8D
3/8"-24	1	1.175"	BJB3/8D
3/8"-24	2	1.550"	BJB3/8DL
7/16"-20			BJB7/16D
M10x1.0	2	1.550"	BJBM101D
M10x1.25	2	1.550"	BJB1012D
M12x1.5			BJBM12SD
M14x1.5			BJBM14SD



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Call for quote.



Union/Adaptors -3AN / -4AN Sizes**AN Male x AN Male (steel)**

-AN size part #

-3AN	815-3S
-4AN	815-4S

Male flair x male flair (815) type.

AN Male x NPT Male (steel)

-AN size NPT size part #

-3AN	1/8"	816-3-2S
-4AN	1/8"	816-4-2S

-AN flair male x NPT male (816) type.

AN Male x NPT Male 90° (steel)

-AN size NPT size part #

-3AN	1/8"	822-3-2S
-4AN	1/8"	822-4-2S

-AN flair male x NPT male 90° (822) type.

AN Male x NPT Male 45° (steel)

-AN size NPT size part #

-3AN	1/8"	823-3-2S
-4AN	1/8"	823-4-2S

-AN flair male x NPT male 45° (823) type.

AN Male Tee (steel)

-AN part #

-3AN	824-3S
-4AN	824-4S

Male flair tee (824) type.

AN Bulkhead Nut (steel)

-AN part #

-3AN	924-3S
-4AN	924-4S

Bulkhead Nut (824) type.

AN Male Bulkhead (steel)

-AN part #

-3AN	832-3S
-4AN	832-4S

Male flair bulkhead (832) type.
Nut (924) sold separately.

AN Male Bulkhead 90° (steel)

-AN part #

-3AN	832-3S
-4AN	832-4S

Male flair bulkhead (833) type.
Nut (924) sold separately.

AN Male x Metric Bleed Screw

-AN size Metric size part #

-3AN	M8 x 1.25 C6 Corvette	13997
-4AN	M10 x 1.5 C5 Corvette, F Body, GTO	13998

3AN Bulkhead Bleeder (steel)

-AN size part #

-3 Male	832-3SB
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Bulkhead nut not included.
Use 924-3S steel nut.

AN Male x Inverted Flair Male (steel)

-AN size IF size part #

-3AN	3/8"-24	3824-3
-4AN	3/8"-24	3824-4
-3AN	7/16"-20	71620-3
-4AN	7/16"-20	71620-4
-3AN	7/16"-24	71624-3
-4AN	7/16"-24	71624-4
-3AN	1/2"-20	1220-3
-4AN	1/2"-20	1220-4
-3AN	9/16"-18*	91618-3

CONCAVE
(inverted flair)



*Some GM master cylinders. Other sizes used throughout domestic automotive hydraulic systems.

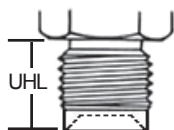
Union/Adaptors -3AN / -4AN Sizes (continued)

AN Male x Metric Male Union Convex (STEEL)

AN Male x Metric Male Union (STEEL)

-AN size Metric size part #

-3AN	M10x1.0 UHL .500"	AM101AN3S
-3AN	M10x1.25 UHL .500"	AM1012A3S
-3AN	M10x1.5 UHL .500"	AM10AN3S
-3AN	M12x1.0 UHL .500"	AM121AN3S
-3AN	M12x1.5 UHL .525"	AM12AN3S
-4AN	M10x1.0 UHL .500"	AM101AN4S
-4AN	M10x1.25 UHL .500"	AM1012A4S
-4AN	M10x1.5 UHL .475"	AM10AN4S
-4AN	M12x1.0 UHL .525"	AM121AN4S
-4AN	M12x1.25 UHL .500"	AM1212A4S
-4AN	M12x1.5 UHL .500"	AM12AN4S
-4AN	M14x1.5 UHL .525"	AM14AN4S



CONCAVE (inverted flair) sealing surface. UHL-under head length: Important if sealing on flair, or use washer/seal when threading into port.

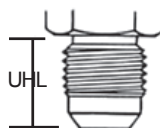
AN Male x Metric Male Union Dual Flair (STEEL)

-AN size Metric size part #

-3AN	M10x1.0 DF UHL .525"	AM101AN3DF
-3AN	M12x1.0 DF UHL .525"	AM121AN3DF
-4AN	M10x1.0 DF UHL .525"	AM101AN4DF



DUAL-FLAIR has both concave and convex sealing flairs and a slightly longer UHL than standard versions of fitting. Best choice when identity of flair is unknown



CONVEX generally seals on flair. UHL-under head length: Important, as it needs to be long enough to reach mating flair

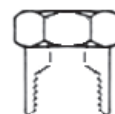
AN Male x Female Concave Bulkhead (steel)

Male Female part #

-3AN	3/8"-24	FM3824-3
-3AN	M10 x 1.0	FM101-3
-4AN	M10 x 1.0	FM101-4



Concave



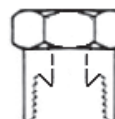
AN Male x Female Convex Bulkhead (steel)

Male Female part #

-3AN	3/8"-24	FM3824X-3
-4AN	3/8"-24	FM3824X-4
-3AN	7/16"-24	FM716X-3
-4AN	7/16"-24	FM716X-4
-3AN	M10 x 1.0	FM101X-3
-4AN	M10 x 1.0	FM101X-4
-3AN	M10 x 1.25	FM1012X-3
-3AN	M10 x 1.5	FM105X-3
-3AN	M12 x 1.0	FM121X-3



CONVEX
(inverted flair)



Union/Adaptors -3AN / -4AN Sizes (continued)

AN Male x 7/16"-24 w/restricted through-hole



size part #

-3AN x 7/16"-24 with .020" through hole	402803-T20
-4AN x 7/16"-24 with .035" through hole	402804-T35
-4AN x 7/16"-24 with .040" through hole	402804-T40

Speciality fitting with restricted through hole dimension to regulate flow. Commonly used on turbo oil feed lines.

AN Male x GM Hydraulic Disconnect Adaptor



-AN part #

-3AN	306-03
-4AN	306-04

This is the male format x -AN quick disconnect or roll-pined held connector used on GM (and other) hydraulic slave cylinders, throw out bearings and master cylinders. With this you can make custom hoses in either -3 or -4AN. Great for component swapping between years and brands of parts and vehicles. Material - steel, special o-ring included.

Quick Disconnect / Dry Break



Size part # Price

-3AN Male	QD-3T	\$115.00
-4AN Male	QD-4T	\$115.00

For brake or clutch line use; dry break allows line to be disconnected without fluid loss or need to be re-blead. Titanium construction 5000psi max .

Bulkhead Retaining Clip



part #

Retaining Clip ZBKCLIP

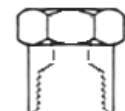
Universal Fit .050" Material Thickness, Plated Steel

M10 Female Tee Metric



Size part #

M10 x 1.0 938-M101

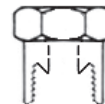


CONCAVE

Size part #

M10 x 1.0 938-M101X

CONVEX
(inverted flair)



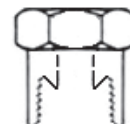
Female Tee Inverted Flair (brass w/steel bracket)



Size part #

3/8"-24	7812
7/16"-24	7815

CONVEX
(inverted flair)



1/8" NPT Female Tee with Male on Run



Size part #

1/8" NPT 5602-2

-3AN Male Tee with Bracket Mount



Size part #

-3AN 824-3MB

Crimp Type Hose End Fittings

The cost of new/used hose crimping machines have reached the sub \$1,500.00 mark making them affordable to automotive shops and hobbyist. With some experience and the right materials you can be making professional hose assemblies quickly and economically. We use a wide range of fittings in-house and are happy to make these proven supplies available to others that have suitable equipment. Crimp fittings are designed to use popular "smooth bore" PTFE hose.



00° Straight -AN (Steel)

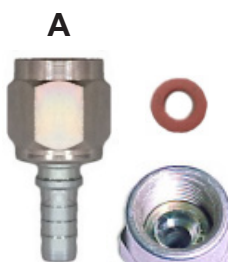


B

-A-	-B-	Part #
-3AN	-3 Hose	SW3-00
-4AN	-4 Hose	SW4-00
-4AN	-3 Hose	SW3/4-00
-3AN	-4 Hose	SW4/3-00
-6AN	-4 Hose	SW4-6-00
-6AN	-6 Hose	SW6-00S

A= nut (female), B= tail (hose)
Silver Plated Steel finish

00° Straight BSP (Steel)



B

-A-	-B-	Part #
1/8" BSP	-3 Hose	SW2-00

Designed to seal on Smiths and other English gauges with 1/8" BSP flat, seals on supplied fiber washer.

A= nut (female), B= tail (hose)
Silver Plated Steel finish

45° Degree -AN (Steel)



B

-A-	-B-	Part #
-3AN	-3 Hose	SW3-45
-4AN	-4 Hose	SW4-45
-6AN	-6 Hose	SW6-45S

A= nut (female), B= tail (hose)
Silver Plated Steel finish

Male NPT (Steel)



B

-A-	-B-	Part #
1/8" NPT	-3 Hose	SW3-N2
1/4" NPT	-4 Hose	SW4-N4
3/8" NPT	-6 Hose	SW6-N6

A= thread (male), B= tail (hose)
Silver Plated Steel finish

90° Degree -AN (Steel)



B

-A-	-B-	Part #
-3AN	-3 Hose	SW3-90
-4AN	-4 Hose	SW4-90
-4AN	-3 Hose	SW3/4-90
-6AN	-6 Hose	SW6-90S

A= nut (female), B= tail (hose)
Silver Plated Steel finish

Female NPT (Steel)



B

-A-	-B-	Part #
1/8" NPT	-3 Hose	SW3-N2F
1/4" NPT	-4 Hose	SW4-N4F

A= thread (female), B= tail (hose)
Silver Plated Steel finish

Crimp Type Hose End Fittings (continued)**Banjo Short Neck**

-A-	-B-	Part #
M8	-3 Hose	SW3-B8
M10/3/8	-3 Hose	SW3-B10
M10/3/8	-4 Hose	SW4-B10
M12 / 7/16	-4 Hose	SW4-B12
M14	-6 Hose	SW6-B14S
M16	-6 Hose	SW6-B16S

Neck length .300" to .500"

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo Extended Neck**

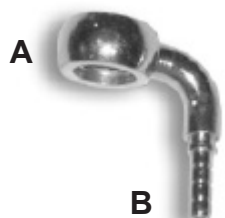
-A-	-B-	Part #
M10/3/8*	-3 Hose	SW3-B10E
M10/3/8**	-3 Hose	SW3-B10XL
M10/3/8*	-4 Hose	SW4-B10E

*Neck length .700"

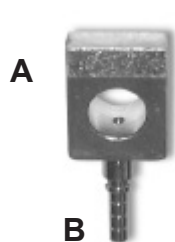
**Neck length 1.45"

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo 20°, 35°, 45°, 70° Neck**

-A-	-B-	Part #
M10/3/8	-3 Hose	SW3-B10E20
M10/3/8	-4 Hose	SW4B10E20
M10/3/8	-3 Hose	SW3-B10E35
M10/3/8	-3 Hose	SW3-B10E45
M10/3/8	-3 Hose	SW3-B10E70

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo 90° Neck**

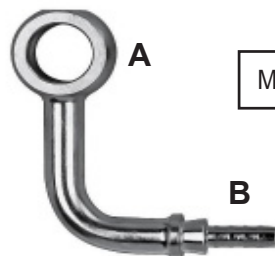
-A-	-B-	Part #
M10/3/8	-3 Hose	SW3-B10E90

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo Block 20° Neck**

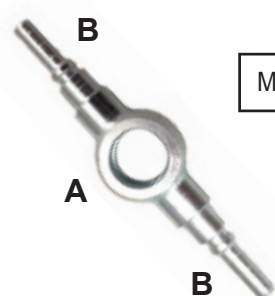
-A-	-B-	Part #
M10/3/8	-3 Hose	SW3-B10B
7/16	-3 Hose	SW3-B7/16B

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo 20° Side Neck**

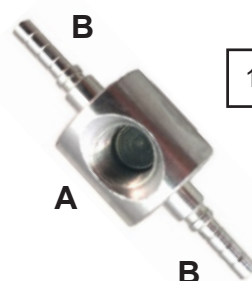
-A-	-B-	Part #
M10/3/8	-3 Hose	SW3-B10S20

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo 90° Side Neck**

-A-	-B-	Part #
M10/3/8	-3 Hose	SW3-B10S90

A= hole size, B= tail (hose)
Silver Plated Steel finish**Banjo Double**

-A-	-B-	Part #
M10/3/8	-3 Hose	SW3-B10D

A= hole size, B= tail (hose)
Silver Plated Steel finish**Tee w/ 1/8" Female Port**

-A-	-B-	Part #
1/8" NPT	-3 Hose	SW3-1/8TEE

A= port size, B= tail (hose)
Silver Plated Steel finish

Crimp Type Hose End Fittings (continued)

Male Convex Seat



-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10X
3/8"-24	-3 Hose	SW3-3/8X

A= thread, B= tail (hose)
Silver Plated Steel finish



Female Bulkhead Concave Seat (Swivel)

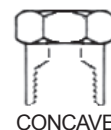


-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10F
M12x1.0	-3 Hose	SW3-M12F

Bulkhead type with clip
retaining groove.

A= thread, B= tail (hose)
Silver Plated Steel finish



Male Bulkhead Convex Seat



-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10BX
3/8"-24	-3 Hose	SW3-3/8BX

Extended length bulkhead
male. Nut sold separately

A= thread, B= tail (hose)
Silver Plated Steel finish



Female Bulkhead Convex Seat (Swivel)

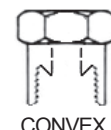


-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10FX
M12x1.0	-3 Hose	SW3-M12FX
3/8"-24	-3 Hose	SW3-3/8FX
7/16"-24	-3 Hose	SW3-7/16FX

Bulkhead type with clip
retaining groove.

A= thread, B= tail (hose)
Silver Plated Steel finish



Male Concave (I.F.) Seat



-A- -B- Part #

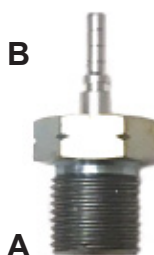
M10x1.0	-3 Hose	SW3-M10
M12x1.0	-3 Hose	SW3-M12
3/8"-24	-3 Hose	SW3-3/8
7/16"-20	-3 Hose	SW3-7/1620
7/16"-24	-3 Hose	SW3-7/1624

Concave is sometimes
referred to as inverted flair.

A= thread, B= tail (hose)
Silver Plated Steel finish



Female Bulkhead Convex Seat (threaded)



-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10XT
NUT 5/8"-18		Z 2K5858

Bulkhead type with
threaded exterior.

A= thread, B= tail (hose)
Silver Plated Steel finish



Female Bulkhead Convex Seat (E-Clip)

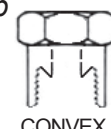


-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10XE
E-Clip		Z ECLIP

Bulkhead type with E-Clip
retaining groove.

A= thread, B= tail (hose)
Silver Plated Steel finish



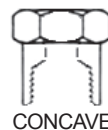
Female Concave Seat (Fixed)



-A- -B- Part #

M10x1.0	-3 Hose	SW3-M10FA
M12x1.0	-3 Hos	SW3-M12FX

A= thread, B= tail (hose)
Silver Plated Steel finish



Crimp Type Hose End Fittings (continued)

Tee Block 3/8"-24 Inverted Flair

	-A-	-B-	Part #
 A= thread, B= tail (hose) Silver Plated Steel finish	3/8"-24	-3 Hose	SW3-T38

CONVEX

Clutch Fitting

	-A-	-B-	Part #
 Clutch master/slave fitting for VW/Audi, BMW and others.	SPECIAL	-3 Hose	SW3-CFVW

Tube Nut (Swivel) Convex

	-A-	-B-	Part #
 A= thread, B= tail (hose) Silver Plated Steel finish	3/8"-24	-3 Hose	SW3-
	M10 x 1.0	-3 Hose	SW3-M10TX

nut turns independent of flair

CONVEX

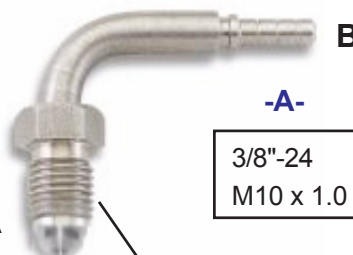
Tube Nut (Swivel) Concave

	-A-	-B-	Part #
 A= thread, B= tail (hose) Silver Plated Steel finish	3/8"-24	-3 Hose	SW3-3/8XS
	M10 x 1.0	-3 Hose	SW3-M10TX

nut turns independent of flair

CONCAVE

Tube Nut (Swivel) Convex

	-A-	-B-	Part #
 nut turns independent of flair	3/8"-24	-3 Hose	SW3-
	M10 x 1.0	-3 Hose	SW3-M10TX

A= thread, B= tail (hose)
Silver Plated Steel finish

CONVEX

00° Degree Metric to TFE Hose (S.Steel)

	-A-	-B-	Part #
 A= nut (female), B= tail (hose) Stainless Steel	M12 x 1.5	-3 Hose	SW6-180

Special M12 x 1.5 female for
making custom mechanical fuel
injection hoses.



We assemble custom hoses.
Call for quote.



Crimp Type Hose End Fittings (continued)

00° Straight -AN to TFE Hose (Alloy)



A

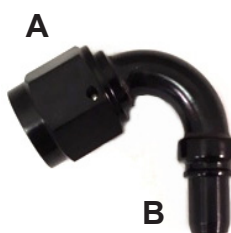
-A- -B- Part #

-6AN -6 Hose SW6-00

-8AN -6 Hose SW8-00

A= nut (female), B= tail (hose)
Anodized aluminum (black)

120° Degree -AN to TFE Hose (Alloy)



B

-A- -B- Part #

-6AN -6 Hose SW6-120

-8AN -6 Hose SW8-120

>> NON-SWIVEL <<

A= nut (female), B= tail (hose)
Anodized aluminum (black)

45° Degree -AN to TFE Hose (Alloy)



B

-A- -B- Part #

-6AN -6 Hose SW6-45

-8AN -6 Hose SW8-45

>> NON-SWIVEL <<

A= nut (female), B= tail (hose)
Anodized aluminum (black)

120° Degree -AN to TFE Hose (Alloy)



B

-A- -B- Part #

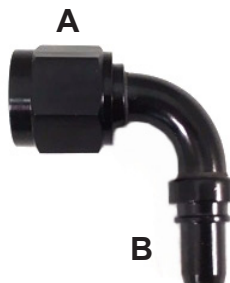
-6AN -6 Hose SW6-120SW

-8AN -6 Hose SW8-120SW

>> SWIVEL TYPE <<<

A= nut (female), B= tail (hose)
Anodized aluminum (black)

90° Degree -AN to TFE Hose (Alloy)



B

-A- -B- Part #

-6AN -6 Hose SW6-90

-8AN -6 Hose SW8-90

>> NON-SWIVEL <<

A= nut (female), B= tail (hose)
Anodized aluminum (black)

180° Degree -AN to TFE Hose (Alloy)



A

B

-A- -B- Part #

-6AN -6 Hose SW6-180SW

>> SWIVEL TYPE <<<

A= nut (female), B= tail (hose)
Anodized aluminum (black)



We assemble custom hoses.
Call for quote.



Crimp Type Hose End Fittings (continued)**00° Straight Metric to TFE Hose (Alloy)**

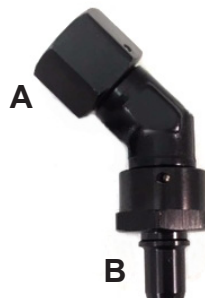
-A- -B- Part #

M12 x 1.5	-6 Hose	SW6-M12-00
M14 x 1.5	-6 Hose	SW6-M14-00
M16 x 1.5	-6 Hose	SW6-M16-00

A= nut (female), B= tail (hose)
Anodized aluminum (black)



We assemble custom hoses.
Call for quote.

**45° Degree Metric to TFE Hose (Alloy)**

-A- -B- Part #

M12 x 1.5*	-6 Hose	SW6-M12-45
M14 x 1.5	-6 Hose	SW6-M14-45
M16 x 1.5	-6 Hose	SW8-M16-45

>> SWIVEL TYPE <<

A= nut (female), B= tail (hose)
Anodized aluminum (black)
*M12 size is non swivel

90° Degree Metric to TFE Hose (Alloy)

-A- -B- Part #

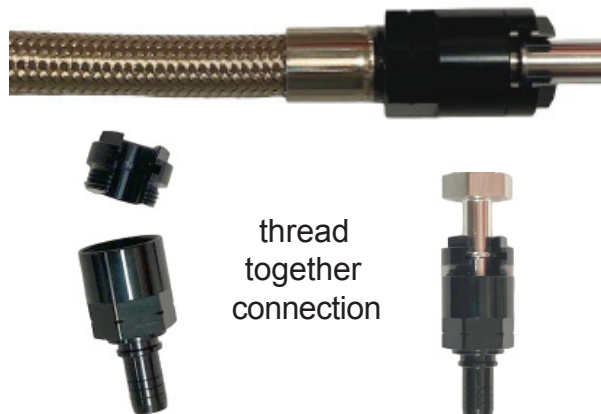
M12 x 1.5	-6 Hose	SW6-M12-90
M14 x 1.5	-6 Hose	SW6-M14-90
M16 x 1.5	-6 Hose	SW8-M16-90

>> SWIVEL TYPE <<

A= nut (female), B= tail (hose)
Anodized aluminum (black)
*M12 size is non swivel

Fuel System Quick Connectors

Originally used on GM and Chrysler EFI fuel systems, these SAE J2044 TYPE quick connects are turning up on all sorts of current foreign and domestic fluid system components. The male and female half plug together sealing on two o-rings and are secured with clip retained in the female half of the connector. Our crimp hose end versions thread together for a more secure connection, allowing you to make your own O.E. type custom fuel line/hoses using fuel safe PTFE hose.

**00° Quick Connect to TFE Hose (Alloy)**

-A- -B- Part #

5/16" QC	-6 Hose	SW6-Q56-00
3/8" QC	-6 Hose	SW6-Q38-00

A= QC (female), B= tail (hose)
Anodized aluminum (black)

90° Quick Connect to TFE Hose (Alloy)

-A- -B- Part #

5/16" QC	-6 Hose	SW6-Q56-90
3/8" QC	-6 Hose	SW6-Q38-90

A= QC (female), B= tail (hose)
Anodized aluminum (black)



PTFE Racing Hose

Construction: extruded Teflon™ (.040" wall) tube with stainless steel single wire braid braid cover.

Application: hydraulic brake & clutch, transmission, gauge/instrument, fuels (gasoline, alcohol, nitromethane), Nitrous Oxide, suspension, air lift jacks, fire systems

Operating Temperature Range: -100 f to +450 f (-73 c to 232 c).

[Link to suitable hose end fittings](#)

Part Number	Hose I.D. (inch)	Hose O.D. (inch)	Max. Oper. Pressure (psi)	Min. Burst Pressure (psi)	Min. Bend Radius (inch)	Vacuum Service (in/Hg)	Weight Per Foot (lbs.)
FC3-3T	.13"	.25"	3,000	12,000	1.5"	28	.04
FC3-4T	.19"	.30"	3,000	12,000	2.0"	28	.05
FC3-6T	.32"	.43"	2,500	10,000	4.0"	28	.09
FC3-8T	.42"	.54"	2,000	8,000	5.3"	28	--

PTFE Teflon™ Hose Information

Conventional, rubber with textile reinforcement, brake hoses allow a significant amount of volumetric expansion- that is, they swell under pressure. This can lead to poor "pedal feel" which is unacceptable for competition applications. For these reasons, smooth bore PTFE (Teflon™) hose with a stainless steel braided exterior is used for most high performance brake hose, and hydraulic, applications. Benefits to this type of hose are its low weight, high strength & temperature capability and resistance to road hazard damage. Common brand types are: Aeroquip "TFE Racing Hose" or 2807, "Moquip TFE", Aeroquip Aerospace "666", Speed-Flex "600" & "411". Hose can be used with either reusable, or permanent swage, type fittings. All fittings can be interchanged between brands with the exception of Aeroquip Aerospace. Popular applications for TFE hose are: hydraulic brake & clutch, fuel & oil pressure gauges, nitrous oxide, suspension shock, and fire system plumbing. Hose and fittings are available in AN -3, -4, -6, -8 sizes, with AN -3 and -4 being most popular.

PTFE Hose (w/stainless braid exterior)

Hose Size I.D.	Part #	Price \$ 1-14 feet	Price \$ 15-29 feet	Price \$ 30 + feet
-3 (.25")	FC3-3T	\$4.20	\$4.05	\$3.90
-4 (.30")	FC3-4T	\$4.50	\$4.35	\$4.20
-6 (.43")	FC3-6T	\$6.30	\$6.10	\$5.90
-8 (.54")	FC3-8T	\$7.35	\$7.15	\$6.95



We assemble custom hoses.
Call for quote.



Optional with BLACK or CLEAR Hytel™ TPE (thermo polyester elastomer) cover.



PTFE Hose (w/stainless braid and TPE cover)

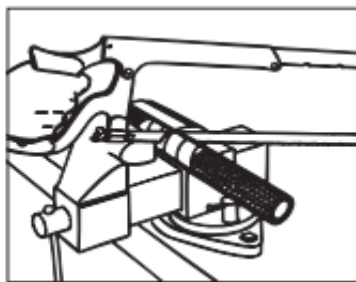
Hose Size I.D.	Part #	Price \$ 1-14 feet	Price \$ 15-29 feet	Price \$ 30 + feet
-3 (.25")	FC3-3TB	\$4.75	\$4.60	\$4.45
-4 (.30")	FC3-4TB	\$5.25	\$5.10	\$4.95
-6 (.43")	FC3-6TB	\$7.95	\$7.80	\$7.65
-8 (.54")	FC3-8TB	\$10.65	\$10.50	\$10.35

For CLEAR sub "C" for "B" at end of part number.

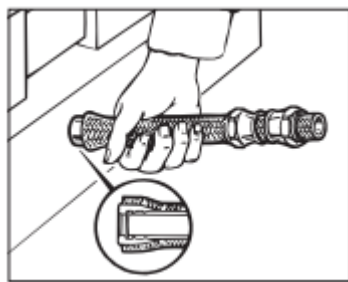
BAT inc. 7630 Matoaka Road. Sarasota, FL 34243 ♦ phone (941) 355-0005 ♦ fax (941) 355-4683

Prices subject to change without notice.

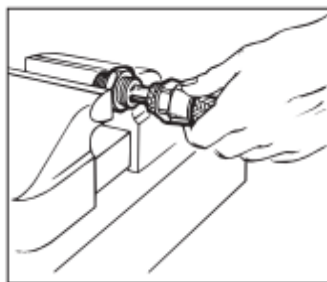
Assembling PTFE (Teflon) Hose with Reuseable Fittings



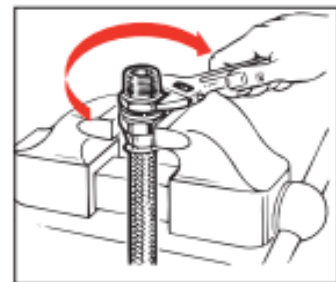
Step 1: Cut hose square to length with fine-tooth hack saw or cut-off wheel. To minimize wire braid flare out, wrap hose with masking tape and cut through tape. Remove tape, trim loose wires and flush with lube before next step. Burrs on bore of tube should be removed with a knife. Clean the hose bore. Sometimes wire braid hose will "neck down" on one end and "flare out" on the other end. This can be used to an advantage. Slip two sockets back to back over the "necked down" end of the hose, position approximately 3 inches from each end. Mount nipple hex in a vise. Work the hose bore over the nipple to size the tube and aid in separating the braid prior to fitting the sleeve. Remove hose from nipple



Step 2: Push the sleeve over the end of the tube and under the wire braid by hand. Complete positioning of the sleeve by pushing the hose end against a flat surface. Visually inspect to see that the tube butts against the inside shoulder of the sleeve. Set the sleeve barbs into the Teflon tube by pushing a round nose tapered punch into the end of the sleeve and tube.



Step 3: Lubricate nipple and socket threads. Use a molydisulfide base lubricant for stainless steel fittings (e.g. Molykote Type G); lubricants containing chloride are not recommended. Other material combinations use standard petroleum lubricants. Hold the nipple with hex in the vise. Push hose over nipple with twisting motion until seated against nipple chamfer. Push socket forward and start threading of socket to nipple.



Step 4: Wrench tighten hex until clearance with socket hex is at .031 inches. Your thumbnail is a convenient measuring device. Tighten further to align corners of nipple and socket hexes. CLEAN, PROOF TEST TO TWICE OPERATING PRESSURE AND INSPECT ALL ASSEMBLIES. To disassemble: Unscrew and remove nipple; slide socket back on hose by tapping against flat surface; remove sleeve with pliers

Important: Fittings may be disassembled and reused at least once. However, all such fittings should be carefully examined for distortion, thread damage and I.D. dimensions. New sleeve is recommended upon reuse of fitting



Hose/Cable Cutters

Description	part #	price \$
Cutter Small	HCC1	\$47.75
Cutter All Size	HCC2	\$69.00

This is the type tool we use to make hose cutting fast, precise and easy. Available in two sizes: small (12" handle) for up to -8AN and large (22" handle) will cut all sizes up to -20AN.



We assemble custom hoses.
Call for quote.



PTFE Assembly Tool (-3,-4,-6,-8 sizes)

Description	part #	price \$
PTFE Assembly Tool	PTT1	\$29.95

Our hand-held PTFE tool is designed to assist assembling -3, -4, -6, -8 smooth-bore PTFE hose fittings. Tool serves two purposes depending on fitting type. For crimp type hose ends the tool resizes hose PTFE inner which generally becomes out of round after cutting. Once sized, the fitting tail can be easily inserted prior to crimping. For reusable hose ends: place the compression sleeve "olive" on the shaft up to the shoulder with sharp edge forward, insert tool into hose, twist to resize the hose interior while separating the exterior braid from the liner and seating the olive - all in one step.