

Aeroquip® Performance Products by Eaton



Setting the bar for
the competition.



SPOTLIGHT

Black Anodized SOCKETLESS™ Hose Fittings

Eaton's AQP *SOCKETLESS* Performance Hose and Fittings are extremely easy to work with. Connecting the two is a snap since not even a wrench is needed! Simply slip the hose onto the fittings. It's that simple. Also available in electroless nickel plating or red/blue anodized finish.

Features

- Cap is anodized aluminum, not plastic
- Unique 3-barb fitting in -10 and -12 sizes
- -06 and -08 feature 2 barbs
- Easy to assemble, no wrench required.
 - No clamp needed.
 - Reusable.
- One-piece design.
 - Allows for improved flow.
 - Eliminates two potential leak points (brazed joints).

Benefits

- Lightweight and economical.
- Soaking or warming hose is not necessary.
- No additional band clamps are necessary

Applications

- Gasoline, fuel and lubricating oils.
- Air and water.



See page 11

624 Firesleeve

624 Firesleeve is a silicone-coated, braided-glass sleeving manufactured using a unique proprietary process. The durable rubber finish resists tears and abrasion in addition to providing a reliable, no-slip clamping surface. Firesleeve hose flame shield can prevent or delay hose lines from burning. See hose specifications shown in this catalog for the correct firesleeve to match each hose size. For other hose styles, select firesleeve with an I.D. slightly larger than the hose O.D.

Features

- Ease of installation: 624 Firesleeve can be slid over line or cable before, during, or after construction or during a line or cable replacement
- Standard sizes available: .31 inch to 3.75 inches ID.

Benefits

- Protection of lines that carry hot or volatile fluids
- Protection of lines, cable, and pipe in hostile environments where there is:
 - Exposure to excessive vibration friction
 - Exposure to molten steel
 - Exposure to industrial solvents
 - Exposure to temperature extremes



See page 37

ET1000 — Portable Crimp Machine

Relaunched with a sleek new housing, the new high performance crimper will compliment your high performance shop, race trailer, or garage.

Features

- Pusher slides out of position.
- Red power coated housing protects user from moving machinery and provides a sleek, aerodynamic design
- Crimper body has a clear zinc finish to protect against corrosion.
- Utilizes 2-piece collet assemblies.
- Spacer rings control the crimp diameter.
- Qualified to crimp Aeroquip's top selling hoses: AQP Stainless Braid, StartLite, and Teflon hoses with Aeroquip's qualified aluminum crimp fittings.

Benefits

- Sliding pusher allows for easier fitting insertion into the machine.
- Simple positive-stop crimp diameter control system for consistent crimping time after time with no operator adjustments required.
- Easily transported between job sites.
- Versatile power source options. Electricity is required only when using an electric style pump.



See page 42

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Warning

Eaton fitting tolerances are engineered to match Eaton hose tolerances. The use of Eaton fittings on hose supplied by other manufacturers and/or the use of Eaton hose with fittings supplied by other manufacturers may result in the production of unreliable and unsafe hose assemblies and is neither recommended or authorized by Eaton. EATON SHALL NOT BE SUBJECT TO AND DISCLAIMS ANY OBLIGATION OR

LIABILITIES (INCLUDING BUT NOT LIMITED TO ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES) ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY OR ARISING FROM TORT CLAIMS (INCLUDING WITHOUT LIMITATION NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW WITH RESPECT TO ANY HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE EATON APPROVED EQUIPMENT,

AND IN CONFORMANCE WITH EATON PROCESS AND PRODUCT INSTRUCTIONS FOR EACH SPECIFIC HOSE ASSEMBLY.

Failure to follow Eaton process and product instructions and limitations could lead to premature hose assembly failures resulting in property damage, serious injury or death.

Note: Part numbers in this bulletin are not certified or recommended for aircraft applications.

*Teflon is a registered trademark of DuPont and under license by Eaton.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

APPLICATION GUIDE

AQP® Racing Hose



- Aeroquip Performance Product's most popular racing hose
- Stainless Steel outer cover for excellent abrasion resistance
- Excellent pressure rating (1000 psi -04 to -12)
- AQP elastomer smooth bore inner tube
- -45°F to +300°F temperature rating
- Approved with reusable and crimp fittings
- Full vacuum sizes, -10, -12, and -16
- **Applications:** fuel, lube, coolant and air lines

See page 6

StartLite® Racing Hose



- Aeroquip Performance Product's popular lightweight racing hose
- Up to 45% lighter than stainless steel braided hose
- 350-500 psi pressure ratings
- Flame retardant Nomex* cover with Kevlar*
- AQP elastomer smooth bore inner tube
- -45°F to +300°F temperature rating
- Approved with reusable and lightweight crimp fittings
- **Applications:** fuel, lube, coolant and air lines

See page 6

AQP SOCKETLESS™ Racing Hose



- Easy to assemble with reusable *SOCKETLESS* fittings
- Textile braid reinforcement available in a blue or black AQP elastomer cover
- AQP elastomer smooth bore inner tube
- -45°F to +300°F temperature rating
- Available in sizes blue -04 to -12; black -06 to -12
- Vacuum rated up to 28 in. Hg. in sizes -04 to -08
- Operating pressure for all sizes at 250 psi
- Never needs a clamp
- **Applications:** fuel, lube, coolant and air lines

See page 11

A/C Hose



- Stainless steel braided for a professional and custom look
- Nylon inner tube for superior refrigerant performance
- Extensively lab and field tested with R134a refrigerants
- Specifically designed for use with our A/C fittings to provide a superior performing combination
- **Applications:** air conditioning lines

See page 13

Racing Hose, Teflon* (Off-Road Brake and Power Trim Lines)



- Superior fluid compatibility, abrasion and corrosion resistance for reliable service
- Stainless steel outer cover for excellent abrasion resistance
- Extruded Teflon* smooth bore inner tube
- -100°F to +450°F temperature rating
- Approved with reusable and crimp fittings
- Excellent pressure rating (2500 psi in dash -06)
- **Applications:** off road brake, transmission, clutch, gauge, N₂O, power steering, hydraulic, air conditioning

See page 15

AQP® High Pressure Hose (Power Steering)

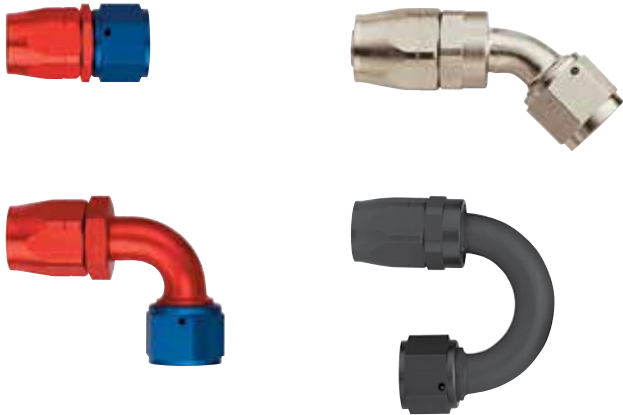


- Your best choice for high pressure applications
- Excellent pressure rating (2250 psi in dash -06)
- Abrasion resistant fabric cover
- AQP elastomer smooth bore inner tube
- -45°F to +300°F temperature rating
- Approved with reusable steel fittings
- **Applications:** power steering, hydraulics, fuel, lube, coolant, air tools and DOT approved air brakes

See page 18

*Nomex, Kevlar and Teflon are DuPont trademarks and under license by Eaton.

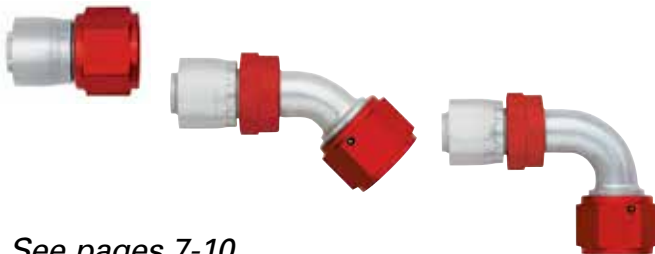
Reusable Aluminum Fittings



- One-piece design
- Allows for improved flow
- Eliminates two potential leak points (brazed joints)
- Significantly improved appearance
- Electroless nickel plating, red/blue and black anodized finish
- Swivel and non-swivel styles available
- Designed to be re-used without damage to the fitting
- Easier to install than cutter style, more user friendly. See page 50 for details
- Nipple pilot prevents damage to the inner tube
- No seal is broken between nipple and tube when swiveled due to nipple design; ensuring integrity of the seal
- Compression style specially designed for performance applications
- Wide range of applications
- **Approved hose styles**
 - AQP® Stainless Steel Racing Hose
 - StartLite® Racing Hose

See pages 7-10

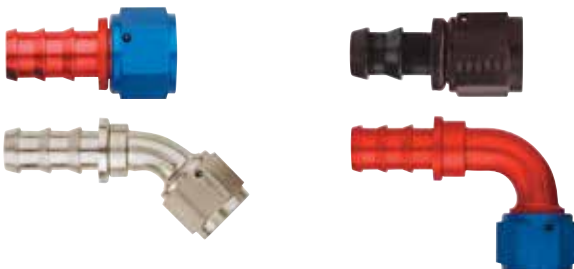
Crimp Aluminum Fittings (lightweight)



- Lightweight and easy to use design
- One-piece design
- Allows for improved flow
- Available in swivel and non-swivel
- Eliminates two leak points (brazed joints)
- Significantly improved appearance
- Assembled with ProCrimp® crimp machines
- **Approved hose styles**
 - AQP® Stainless Steel Racing Hose
 - StartLite® Racing Hose

See pages 7-10

Aluminum SOCKETLESS™ Fittings



- Used with AQP SOCKETLESS hose
- Easy to assemble, no wrench required
- No clamp needed
- Reusable
- One-piece design
- Allows for improved flow
- Eliminates two potential leak points (brazed joints)
- Significantly improved appearance
- Electroless nickel plating or red/blue anodized finish
- **Approved hose styles**
 - AQP® SOCKETLESS Racing Hose

See page 12

A/C Fittings



- Nickel plated for an eye-appealing look and corrosion resistance
- Reusable to allow you to make your own assemblies
- Available refrigerant charge ports to allow you to position the ports where you want them
- Female O-ring pilot terminal ends fit perfectly with the majority of A/C components
- O-ring ferrule ensures a superior seal when assembled with our A/C hose
- **Approved hose styles**
 - A/C Racing Hose

See page 14

Bulk or Retail Packaged Parts

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APPLICATION GUIDE (CONT.)

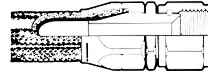
Compression-Style Design Provides Simple, Troublefree Assembly

Eaton's Aeroquip Performance Products anodized aluminum reusable fittings are engineered to match Eaton hose tolerances, providing matchless performance. The smooth tube design allows excellent fluid flow. Their compression-style design provides simple, troublefree assembly.

Eaton's compression style design was specially designed for performance applications. They are reliable, easier to use

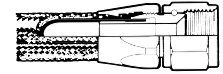
and more forgiving than cutter-style fittings. A comparison of the two styles is shown at right. For applications involving methanol and nitromethane fuel mixtures, Aeroquip offers zinc-plated carbon steel fittings designed precisely for these situations. These fittings feature a steel nipple, nut and tube with an anodized aluminum hose socket. High quality aluminum carburetor adapters and banjo fittings are also available.

Eaton's Compression Style Design

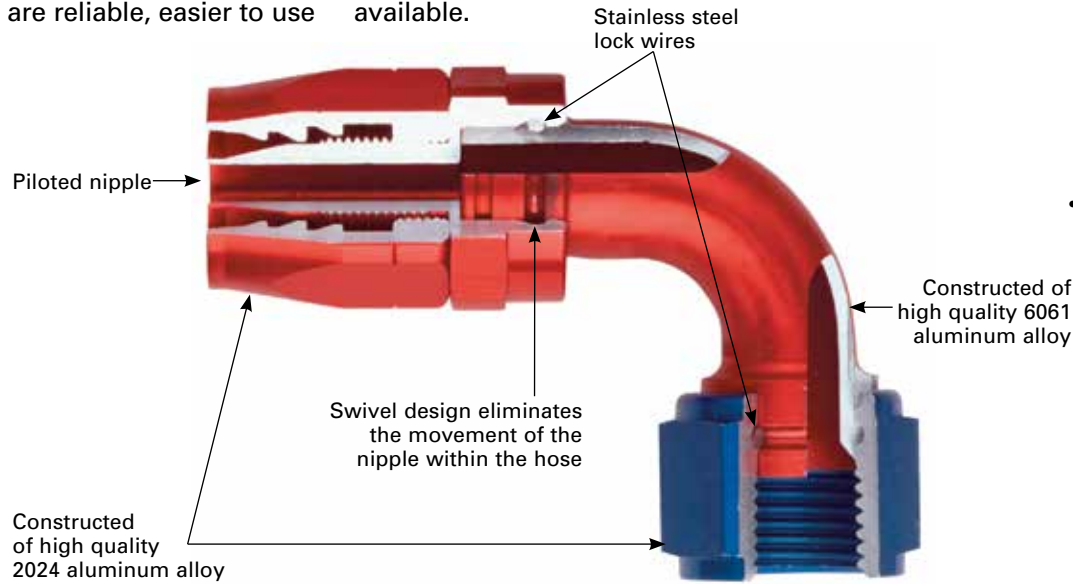


- Designed to be re-used without damage to the fitting
- Nipple pilot prevents damage to the inner tube
- More user friendly, for consistently excellent hose/fitting connections
- Nipple does not move with this design on swivel fittings

Competition's Cutter Style Design

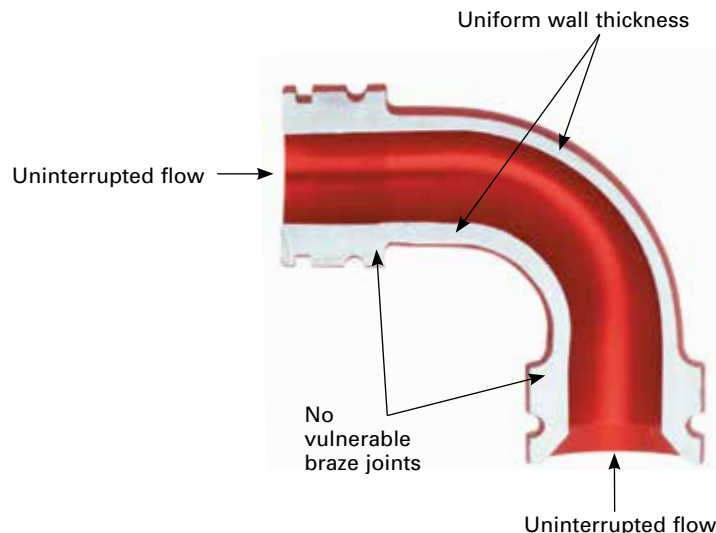


- Cutting edge dulls with each use, which can cause an incomplete connection.
- For re-use the inner tube must be removed from the lip seal area without damage to the cutter. A damaged or dull cutter can mean a leaky fitting.
- Excessive lube oil applied during installation can cause hydraulic lock in the lip seal area, preventing complete fitting connection.
- When used with swivel style fittings, the nipple moves inside the hose, disrupting the integrity of this critical seal.



One-Piece Design*

- Allows for improved flow
- Eliminates two leak points (braze joints)
- Significantly improved appearance



*Available in the majority of Aeroquip Performance Products aluminum fittings. Contact Eaton for additional information.

AQP® RACING HOSE

The most popular racing hose in the market for over 60 years — made in the U.S.A.



Great Looks, Proven Performance.

Stainless steel braid for superior performance.

AQP Racing Hose is compatible with petroleum and synthetic lubricants, hydrocarbon fuels and liquid engine coolants. It operates at higher temperatures for longer periods. Light and flexible, it is easy to work with, and its stainless steel cover will ensure long-

lasting durability. AQP Racing Hose also features an AQP elastomer inner tube that is resistant to oxidation, the effects of ozone and other various agents present in the air. Changes in physical properties due to shelf aging are nonexistent.

Applications:
Fuel, lube, coolant, air

HOSE SPECIFICATIONS

ORDERING INFORMATION

| Hose Dash Size | Hose I.D. INCHES | Max. Hose O.D. INCHES | Max. Operating Pressure PSI | Weight Bend Radius INCHES | Per Foot POUNDS | Vacuum Service INCHES/HG | Bulk Part Number | Package Length Part Number | | | | | | | |
|----------------|------------------|-----------------------|-----------------------------|---------------------------|-----------------|--------------------------|------------------|----------------------------|---------|---------|---------|---------|---------|---------|-----------|
| | | | | | | | | 2 FEET | 3 FEET | 6 FEET | 10 FEET | 15 FEET | 20 FEET | 50 FEET | REEL |
| -04 | .22 | .44 | 1000/750 ¹ | 2.00 | .11 | 21 | FBA0400 | — | FCA0403 | FCA0406 | FCA0410 | FCA0415 | FCA0420 | FCA0450 | FBA0400RL |
| -06 | .34 | .55 | 1000/750 ¹ | 2.50 | .16 | 21 | FBA0600 | — | FCA0603 | FCA0606 | FCA0610 | FCA0615 | FCA0620 | FCA0650 | FBA0600RL |
| -08 | .44 | .65 | 1000/750 ¹ | 3.50 | .17 | 21 | FBA0800 | — | FCA0803 | FCA0806 | FCA0810 | FCA0815 | FCA0820 | FCA0850 | FBA0800RL |
| -10 | .56 | .80 | 1000/750 ¹ | 4.00 | .21 | 28 | FBA1000 | — | FCA1003 | FCA1006 | FCA1010 | FCA1015 | FCA1020 | FCA1050 | FBA1000RL |
| -12 | .69 | .94 | 1000/750 ¹ | 4.50 | .29 | 28 | FBA1200 | — | FCA1203 | FCA1206 | FCA1210 | FCA1215 | FCA1220 | FCA1250 | FBA1200RL |
| -16 | .88 | 1.15 | 750/750 ¹ | 5.50 | .38 | 28 | FBA1600 | — | FCA1603 | FCA1606 | FCA1610 | FCA1615 | FCA1620 | FCA1650 | FBA1600RL |
| -20 | 1.13 | 1.41 | 500 | 8.00 | .49 | 21 | FBA2000 | — | FCA2003 | FCA2006 | FCA2010 | FCA2015 | FCA2020 | — | — |
| -24 | 1.34 | 1.70 | 50 | 9.00 | .80 | 21 | FBA2400 | FCA2402 | FCA2403 | FCA2406 | — | — | — | — | — |
| -32 | 1.75 | 2.09 | 50 | 12.50 | .98 | 15 | FBA3200 | FCA3202 | FCA3203 | FCA3206 | — | — | — | — | — |

Construction: AQP elastomer inner tube, partial stainless steel wire inner braid and a full stainless steel outer braid reinforcement.
Temperature Range: Continuous operating temperature from -55°F to +300°F (-49°C to +150°C). See Page 31 for banjo fitting for fuel systems.

STARTLITE® RACING HOSE

The lightweight alternative — 45% lighter than AQP® Racing Hose — made in the U.S.A.



The Professional's Choice.

Features:

- Up to 45% lighter than stainless steel braided hose
- Flame retardant Nomex and Kevlar cover
- AQP smooth bore inner tube
- -45° to 300°F temperature rating
- Flexible band radius
- Race proven — approved by NASCAR, NHRA, IHRA, ADRL and other sanctioning bodies
- Three to five times better abrasion protection*
- Fastest and easiest crimp machine on the market (FT1380)
- Non-swivel and swivel crimp fittings (no phase angles to calculate)
- Rated to 20 in/Hg or 28 in/Hg with stainless steel support coil

Applications:

- Fuel, lube, coolant and air lines

HOSE SPECIFICATIONS

ORDERING INFORMATION

| Hose Dash Size | Hose I.D. INCHES | Hose O.D. INCHES | Max. Operating Pressure PSI | Min. Bend Radius INCHES | Weight Per Foot POUNDS | Vacuum Service INCHES/HG | Bulk Part Number | Package Length Part Number | | | | | |
|----------------|------------------|------------------|-----------------------------|-------------------------|------------------------|--------------------------|------------------|----------------------------|---------|---------|---------|---------|---------|
| | | | | | | | | 3 FEET | 6 FEET | 10 FEET | 15 FEET | 20 FEET | 50 FEET |
| -04 | .22 | .43 | 500 | 2.00 | .05 | 20 | FBU0400 | FCU0403 | FCU0406 | FCU0410 | FCU0415 | FCU0420 | FCU0450 |
| -06 | .34 | .55 | 500 | 2.50 | .08 | 20 | FBU0600 | FCU0603 | FCU0606 | FCU0610 | FCU0615 | FCU0620 | FCU0650 |
| -08 | .44 | .64 | 500 | 3.50 | .09 | 20 | FBU0800 | FCU0803 | FCU0806 | FCU0810 | FCU0815 | FCU0820 | FCU0850 |
| -10 | .56 | .80 | 500 | 4.00 | .14 | 20 | FBU1000 | FCU1003 | FCU1006 | FCU1010 | FCU1015 | FCU1020 | FCU1050 |
| -12 | .69 | .93 | 350 | 4.50 | .16 | 20 | FBU1200 | FCU1203 | FCU1206 | FCU1210 | FCU1215 | FCU1220 | FCU1250 |
| -16 | .88 | 1.15 | 350 | 5.50 | .19 | 20 | FBU1600 | FCU1603 | FCU1606 | FCU1610 | FCU1615 | FCU1620 | FCU1650 |
| -20 | 1.13 | 1.41 | 350 | 5.50 | .25 | 20 | FBU2000 | FCU2003 | FCU2006 | FCU2010 | FCU2015 | FCU2020 | FCU2050 |

Construction: AQP elastomer inner tube and Nomex* hose construction.
Temperature Range: -45°F to +300°F (-43°C to +150°C).

For ultimate weight savings, select AQP lightweight crimp fittings.

AQP® Racing and Startlite® Racing Hoses are both qualified with the same reusable and crimp fittings on the following pages.

Please see Pages 44-48 for assembly instructions. *Nomex is a Dupont trademark.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.



AQP® RACING HOSE AND FITTINGS (CONT.)
 STARTLITE® RACING HOSE AND FITTINGS (CONT.)



STRAIGHT FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable** Steel Swivel S.A.E. 37° (JIC/AN) | Aluminum Nickel-Plated Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) |
|-----------|--|---|---|---|--|
| | | | | | |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Bulk Part Number |
| -04 | — | — | FCM1011 | — | FBM4211 |
| -06 | FCM4412 | FCM1012 | FCM1075 | FCE1012 | FBM4212 |
| -08 | FCM4413 | FCM1013 | FCM1076 | FCE1013 | FBM4213 |
| -10 | FCM4414 | FCM1014 | — | FCE1014 | FBM4214 |
| -12 | FCM4415 | FCM1015 | — | FCE1015 | FBM4215 |
| -16 | FCM4416 | FCM1016 | — | — | FBM4216 |
| -20 | — | FCM1017 | — | — | FBM4217 |

30° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Non-Swivel S.A.E. 37° (JIC/AN) |
|-----------|--|---|---|--|--|
| | | | | | |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Bulk Part Number |
| -06 | FCM4472 | FCM4072 | — | FBM4272 | — |
| -08 | FCM4473 | FCM4073 | — | FBM4273 | — |
| -10 | FCM4474 | FCM4074 | — | FBM4274 | FBM4174 |
| -12 | FCM4475 | FCM4075 | — | FBM4275 | FBM4175 |
| -16 | FCM4476 | FCM4076 | — | — | — |
| -20 | — | — | FCM1147 | — | — |



**Don't Put
Your Performance
at Risk**

Don't mix and match hose and fitting manufacturers with your hose assemblies. Each manufacturer of hose and fittings builds their product to specific tolerances and does not recommend them for use with other brands. Doing this puts your performance at risk and voids any warranty on your product.



Please see Pages 44-48 for assembly instructions. **Aluminum socket



45° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Reusable** Steel Non-Swivel S.A.E. 37° (JIC/AN) | Nickel-Plated Aluminum Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Non-Swivel S.A.E. 37° (JIC/AN) |
|-----------|---|--|--|---|---|--|--|
| | | | | | | | |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Bulk Part Number |
| -04 | — | — | — | FCM1021 | — | — | FBM4121 |
| -06 | FCM4422 | FCM4022 | FCM1022 | FCM1079 | FCE4022 | FBM4222 | — |
| -08 | FCM4423 | FCM4023 | FCM1023 | FCM1080 | FCE4023 | FBM4223 | — |
| -10 | FCM4424 | FCM4024 | FCM1024 | — | FCE4024 | FBM4224 | FBM4124 |
| -12 | FCM4425 | FCM4025 | FCM1025 | — | FCE4025 | FBM4225 | FBM4125 |
| -16 | FCM4426 | FCM4026 | FCM1026 | — | — | FBM4226 | — |
| -20 | — | — | FCM1027 | — | — | — | FBM4127 |

60° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Non-Swivel S.A.E. 37° (JIC/AN) |
|-----------|---|--|--|--|--|
| | | | | | |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Bulk Part Number |
| -06 | FCM4482 | FCM4082 | — | FBM4282 | — |
| -08 | FCM4483 | FCM4083 | — | FBM4283 | — |
| -10 | FCM4484 | FCM4084 | — | FBM4284 | FBM4184 |
| -12 | FCM4485 | FCM4085 | — | FBM4285 | FBM4185 |
| -16 | FCM4486 | FCM4086 | — | — | — |
| -20 | — | — | FCM1148 | — | — |



Weight Savings
 Up to 12 lbs can be saved by using StartLite hose assemblies in lieu of a stainless steel braided hose assemblies on the average circle track car.

Direct Port Fitting

45° ORB FITTING

Reusable Aluminum Swivel O-ring



| Hose Size | Bulk Part Number | Thread Size |
|-----------|------------------|-------------|
| -08 | FBM1348 | 9/16-18 |
| -08 | FBM1349 | 3/4-16 |
| -10 | FBM1350 | 1 1/16-12 |
| -10 | FBM1351 | 7/8-14 |
| -12 | FBM1352 | 7/8-14 |
| -12 | FBM1353 | 1 1/16-12 |



Please see Pages 44-48 for assembly instructions. **Aluminum socket

Bulk or Retail Packaged Parts

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AQP® RACING HOSE AND FITTINGS (CONT.)
 STARTLITE® RACING HOSE AND FITTINGS (CONT.)



90° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Reusable** Steel Swivel S.A.E. 37° (JIC/AN) | Aluminum Nickel-Plated Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Non-Swivel S.A.E. 37° (JIC/AN) |
|-----------|---|--|--|---|---|--|--|
| | | | | | | | |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Bulk Part Number |
| -04 | — | — | — | FCM1031 | — | — | FBM4131 |
| -06 | FCM4432 | FCM4032 | FCM1032 | FCM1083 | FCE4032 | FBM4232 | — |
| -08 | FCM4433 | FCM4033 | FCM1033 | FCM1084 | FCE4033 | FBM4233 | — |
| -10 | FCM4434 | FCM4034 | FCM1034 | — | FCE4034 | FBM4234 | FBM4134 |
| -12 | FCM4435 | FCM4035 | FCM1035 | — | FCE4035 | FBM4235 | FBM4135 |
| -16 | FCM4436 | FCM4036 | FCM1036 | — | — | FBM4236 | — |
| -20 | — | — | FCM1037 | — | — | — | FBM4137 |

120° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Non-Swivel S.A.E. 37° (JIC/AN) |
|-----------|---|--|--|--|--|
| | | | | | |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Bulk Part Number |
| -04 | — | — | — | — | FBM4141 |
| -06 | FCM4442 | FCM4042 | FCM1042 | FBM4242 | — |
| -08 | FCM4443 | FCM4043 | FCM1043 | FBM4243 | — |
| -10 | FCM4444 | FCM4044 | FCM1044 | FBM4244 | FBM4144 |
| -12 | FCM4445 | FCM4045 | FCM1045 | FBM4245 | FBM4145 |
| -16 | FCM4446 | FCM4046 | FCM1046 | FBM4246 | — |
| -20 | — | — | FCM1047 | — | — |

Direct Port Fitting

90° MALE PIPE FITTING

Reusable Aluminum Swivel Male Pipe

| | | | |
|--|-----------|----------------------|------------------|
| | Hose Size | Packaged Part Number | Pipe Thread Size |
| | -06 | FCM1343 | 3/8 NPTF |
| | -08 | FCM1344 | 1/2 NPTF |
| | -12 | FCM1345 | 3/4 NPTF |

Direct Port Fitting

90° ORB FITTING





Reusable Aluminum Swivel O-ring

| | | | |
|--|-----------|------------------|-------------|
| | Hose Size | Bulk Part Number | Thread Size |
| | -08 | FBM1355 | 9/16-18 |
| | -08 | FBM1356 | 3/4-16 |
| | -10 | FBM1357 | 1 1/16-12 |
| | -10 | FBM1358 | 7/8-14 |
| | -12 | FBM1359 | 7/8-14 |
| | -12 | FBM1360 | 1 1/16-12 |





Please see Pages 44-48 for assembly instructions. **Aluminum socket

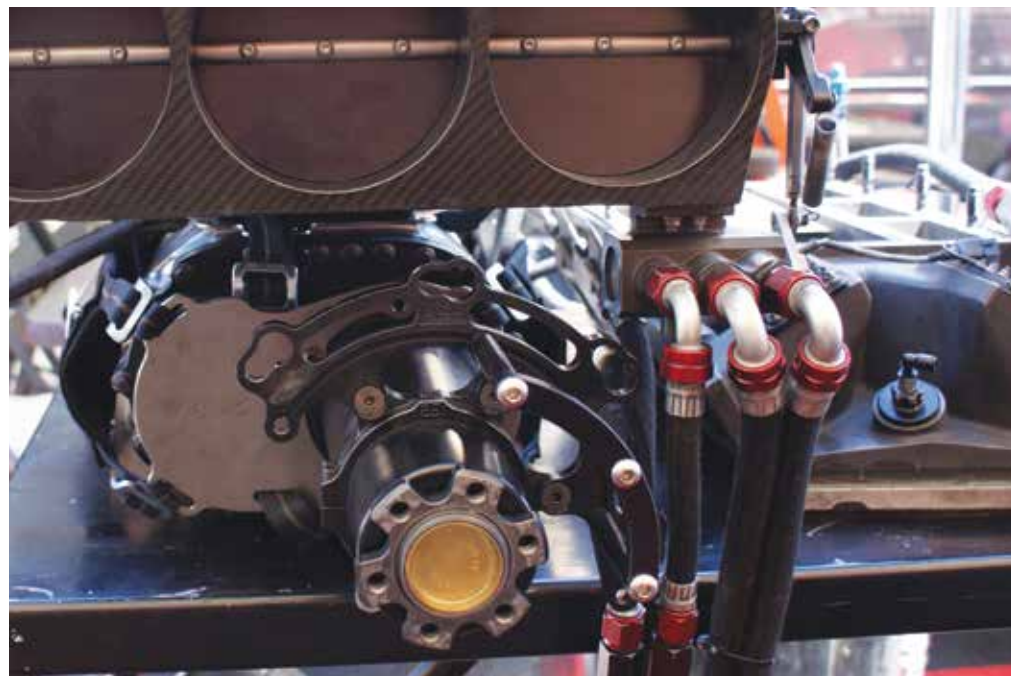


150° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) |
|-----------|---|---|---|--|
| |  |  |  |  |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number |
| -04 | — | — | — | FBM4151 ¹ |
| -06 | FCM4452 | FCM4052 | FCM1052 | FBM4252 |
| -08 | FCM4453 | FCM4053 | FCM1053 | FBM4253 |
| -10 | FCM4454 | FCM4054 | FCM1054 | FBM4254 |
| -12 | FCM4455 | FCM4055 | FCM1055 | FBM4255 |
| -16 | FCM4456 | FCM4056 | FCM1056 | FBM4256 |

180° ELBOW FITTING

| | Reusable Black Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Swivel S.A.E. 37° (JIC/AN) | Reusable Red/Blue Anodized Aluminum Non-Swivel S.A.E. 37° (JIC/AN) | Lightweight Crimp Swivel S.A.E. 37° (JIC/AN) |
|-----------|---|---|---|--|
| |  |  |  |  |
| Hose Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number |
| -06 | FCM4462 | FCM4062 | FCM1062 | — |
| -08 | FCM4463 | FCM4063 | FCM1063 | FBM4263 |
| -10 | FCM4464 | FCM4064 | FCM1064 | FBM4264 |
| -12 | FCM4465 | FCM4065 | FCM1065 | FBM4265 |
| -16 | FCM4466 | FCM4066 | FCM1028 | FBM4266 |



Routing Made Easy with Swivel Design

Many hose assemblies require angled fittings on both ends to make a connection. Our angled fittings all have a swivel option that eliminates the need to calculate phase angles when attaching the ends and makes installation easier.

Please see Pages 44-48 for assembly instructions.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

AQP® SOCKETLESS™ HOSE AND FITTINGS

AQP SOCKETLESS™ HOSE

The fastest and easiest to assemble.

A Lightweight and Economical Choice

Quick and easy assembly that can save you time.

Eaton's AQP *SOCKETLESS* Performance Hose and Fittings are extremely easy to work with. Connecting the two is a snap since not even a wrench is needed! Simply slip the hose onto the fittings. It's that simple.

Applications:

Gasoline, fuel and lubricating oils, air and water.



HOSE SPECIFICATIONS

ORDERING INFORMATION

| Hose Dash Size | Hose I.D. | Hose O.D. | Max. Operating Pressure | Min. Bend Radius | Vacuum Service* | Bulk Part Number | | Package Length Part Number | | | | | |
|----------------|-----------|-----------|-------------------------|------------------|-----------------|------------------|---------|----------------------------|---------------|--------------|---------------|------------------------|---|
| | | | | | | Blue | Black | Blue 15 FEET | Black 15 FEET | Blue 20 FEET | Black 20 FEET | REEL | |
| | INCHES | INCHES | PSI | INCHES | INCHES/HG | | | | | | | | |
| -04 | .25 | .49 | 250 | 3.00 | 28 | FBV0400 | — | — | — | — | — | — | — |
| -06 | .38 | .62 | 250 | 3.00 | 28 | FBV0600 | FBN0600 | FCV0615 | FCN0615 | FCV0620 | FCN0620 | FBV0600RL ¹ | |
| -08 | .50 | .75 | 250 | 5.00 | 28 | FBV0800 | FBN0800 | FCV0815 | FCN0815 | FCV0820 | FCN0820 | FBV0800RL ² | |
| -10 | .63 | .91 | 250 | 6.00 | 18 | FBV1000 | FBN1000 | FCV1015 | FCN1015 | FCV1020 | FCN1020 | — | |
| -12 | .75 | 1.03 | 250 | 7.00 | 18 | FBV1200 | FBN1200 | FCV1215 | FCN1215 | FCV1220 | FCN1220 | — | |

Construction: AQP elastomer inner tube, textile braid reinforcement, AQP elastomer cover.

Temperature Range: -40°F to +300°F (-40°C to +150°C). Air not to exceed +250°F (+121°C) and water not to exceed +180°F (+82°C).

¹Order in 560-foot increments.

²Order in 600-foot increments.

Features:

- Easy to assemble and disassemble
- No socket wrench required
- Lightweight
- Reusable
- Operating pressure for all sizes at 250 psi
- Never uses a clamp

STRAIGHT FITTING

| | <i>SOCKETLESS</i> Black Anodized Aluminum S.A.E. 37° (JIC/AN) | <i>SOCKETLESS</i> Red/Blue Anodized Aluminum S.A.E. 37° (JIC/AN) | <i>SOCKETLESS</i> Nickel-Plated Aluminum S.A.E. 37° (JIC/AN) | <i>SOCKETLESS</i> Brass Male Pipe | <i>SOCKETLESS</i> Brass Male Flare S.A.E. 37° (JIC/AN) | <i>SOCKETLESS</i> Brass Swivel S.A.E. 37° (JIC/AN) Pipe | <i>SOCKETLESS</i> Brass Male Inverted Flare | | |
|-----------|---|--|--|---|--|--|---|-----------------------|------------------|
| Hose Size | Bulk Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Bulk Part Number | Thread Size | Bulk Part Number | Pipe Bulk Part Number | Bulk Part Number |
| -04 | — | — | — | — | FBM1200 FBM1201 | 1/8 1/4 | FBM1444 | FBM1231* | FBM1211 |
| -06 | FBL1512 | FCL1512 | FCM1512 | FCE1512 | FBM1207 FBM1202 | 1/4 3/8 | FBM1445 | FBM1222 | FBM1212 |
| -08 | FBL1513 | FCL1513 | FCM1513 | FCE1513 | FBM1206 FBM1203 | 3/8 1/2 | — | FBM1233* | FBM1213 |
| -10 | FBL1514 | FCL1514 | FCM1514 | FCE1514 | FBM1204 | 1/2 | — | FBM1234* | FBM1214 |
| -12 | FBL1515 | FCL1515 | FCM1515 | FCE1515 | FBM1205 | 3/4 | — | FBM1225 | — |

*These fittings mate with both 37° and 45° male flares.

AQP® SOCKETLESS™ hose is qualified with the SOCKETLESS fittings above and on the following page.

Please see Pages 44-48 for assembly instructions.



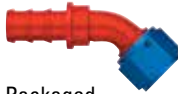
45° ELBOW FITTING

SOCKETLESS
Black Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -04 | — | — |
| -06 | FBL1522 | FCL1522 |
| -08 | FBL1523 | FCL1523 |
| -10 | FBL1524 | FCL1524 |
| -12 | FBL1524 | FCL1524 |

SOCKETLESS
Red/Blue Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -04 | — | — |
| -06 | FBL1522 | FCM1522 |
| -08 | FBL1523 | FCM1523 |
| -10 | FBL1524 | FCM1524 |
| -12 | FBL1524 | FCM1525 |

SOCKETLESS
Nickel-Plated Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -04 | — | — |
| -06 | FCE1522 | FCE1522 |
| -08 | FCE1523 | FCE1523 |
| -10 | FCE1524 | FCE1524 |
| -12 | FCE1525 | FCE1525 |

SOCKETLESS
Steel Swivel
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number |
|-----------|------------------|
| -04 | FBM1438 |
| -06 | FBM1439 |
| -08 | FBM1440 |
| -10 | — |
| -12 | — |

90° ELBOW FITTING

SOCKETLESS
Black Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -04 | — | — |
| -06 | FBL1532 | FCL1532 |
| -08 | FBL1533 | FCL1533 |
| -10 | FBL1534 | FCL1534 |
| -12 | FBL1534 | FCL1534 |

SOCKETLESS
Red/Blue Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -04 | — | — |
| -06 | FBL1532 | FCM1532 |
| -08 | FBL1533 | FCM1533 |
| -10 | FBL1534 | FCM1534 |
| -12 | FBL1534 | FCM1535 |

SOCKETLESS
Nickel-Plated Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -04 | — | — |
| -06 | FCE1532 | FCE1532 |
| -08 | FCE1533 | FCE1533 |
| -10 | FCE1534 | FCE1534 |
| -12 | FCE1535 | FCE1535 |

SOCKETLESS
Steel Swivel
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number |
|-----------|------------------|
| -04 | FBM1441 |
| -06 | FBM1442 |
| -08 | FBM1443 |
| -10 | — |
| -12 | — |

120° ELBOW FITTING

SOCKETLESS
Black Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -06 | FBL1542 | FCL1542 |
| -08 | FBL1543 | FCL1543 |
| -10 | FBL1544 | FCL1544 |
| -12 | FBL1545 | FCL1545 |

SOCKETLESS
Red/Blue Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -06 | FBL1542 | FCM1542 |
| -08 | FBL1543 | FCM1543 |
| -10 | FBL1544 | FCM1544 |
| -12 | FBL1545 | FCM1545 |

150° ELBOW FITTING

SOCKETLESS
Black Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -06 | FBL1552 | FCL1552 |
| -08 | FBL1553 | FCL1553 |
| -10 | FBL1554 | FCL1554 |
| -12 | FBL1555 | FCL1555 |

SOCKETLESS
Red/Blue Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -06 | FBL1552 | FCM1552 |
| -08 | FBL1553 | FCM1553 |
| -10 | FBL1554 | FCM1554 |
| -12 | FBL1555 | FCM1555 |

180° ELBOW FITTING

SOCKETLESS
Black Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -06 | FBL1562 | FCL1562 |
| -08 | FBL1563 | FCL1563 |
| -10 | FBL1564 | FCL1564 |
| -12 | FBL1565 | FCL1565 |

SOCKETLESS
Red/Blue Anodized
Aluminum
S.A.E. 37° (JIC/AN)



| Hose Size | Bulk Part Number | Packaged Part Number |
|-----------|------------------|----------------------|
| -06 | FBL1562 | FCM1562 |
| -08 | FBL1563 | FCM1563 |
| -10 | FBL1564 | FCM1564 |
| -12 | FBL1565 | FCM1565 |

STRAIGHT -08 TO -06¹

SOCKETLESS
Brass
Female Flare



| Hose Size | Bulk Part Number | Thread Size |
|-----------|------------------|-------------|
| -06 | FBM1232 | 3/4-16 |

Please see Pages 44-48 for assembly instructions. ¹These fittings mate with both 37° and 45° male flares.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

A/C HOSE AND FITTINGS

A/C HOSE AND FITTINGS

Custom look and superior performance



Even Our A/C Lines Look Cool.






Specifically designed for your A/C component applications.

This new and innovative product offers discriminating motorsport enthusiasts a superior hose and fitting combination specifically designed for A/C component applications. This attractive hose has a stainless steel outerbraid with a nylon inner tube for supe-

rior refrigerant performance. Custom designed nickel plated steel reusable fittings, with available charge ports, are an eye appealing compliment to complete these field serviceable hose assemblies.

Applications: Air conditioning

HOSE SPECIFICATIONS

| Hose Dash Size |  |  |  |  |  | Bulk Part Number | Package Length Part Number | | |
|----------------|---|---|---|---|---|------------------|----------------------------|---------|---------|
| | INCHES | INCHES | PSI | INCHES | POUNDS | | 3 FEET | 6 FEET | 9 FEET |
| -06 | .33 | .44 | 500 | 4.00 | .08 | FBF0600 | FCF0603 | FCF0606 | FCF0609 |
| -08 | .43 | .54 | 500 | 5.25 | .10 | FBF0800 | FCF0803 | FCF0806 | FCF0809 |
| -10 | .51 | .63 | 500 | 6.50 | .14 | FBF1000 | FCF1003 | FCF1006 | FCF1009 |

Temperature Range: -40°F to +250°F (-40°C to +121°C).

ORDERING INFORMATION

Look As Cool As You Feel.

Your street rod is "cool" because of your demanding attention to detail. And although perfection is your goal, up until now you have been forced to accept industrial-looking A/C hose & fittings, or worse yet, stainless steel braided versions that didn't work.

Eaton's Aeroquip Performance Products has responded to your endless pursuit of detail and perfection with the development of an A/C hose & fitting product designed specifically for street rod A/C components, and your impeccable standards.

Features:

- Superior appearance with stainless steel covered hose available in sizes -6, -8, and -10
- Nylon tube for outstanding refrigerant performance
- Nickel-plated steel reusable fittings, with reusable charge ports, offer field serviceability
- Female O-ring pilot terminal ends for precise connections with existing A/C components
- O-ring seal between the hose and fitting nipple increases fitting and hose assembly integrity
- Trusted Aeroquip Performance Product quality
- Extensively field and lab tested with R-134a refrigerant
- Reusable fittings allow you to make custom hose assemblies for your specific applications



Lubricant Selection

Always be sure to use the correct system lubricant for your A/C system. Most R-12 systems use mineral oil, while most R-134a systems use a synthetic lubricant called Polyalkylene Glycol (PAG).

A/C hose is qualified with the A/C fittings on the following page.

Please see Pages 44-48 for assembly instructions.



STRAIGHT FITTING

Reusable Nickel-Plated Steel Female O-ring Pilot



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -06 | FCE1712 |
| -08 | FCE1713 |
| -10 | FCE1714 |

Reusable Nickel-Plated Steel Female O-ring Pilot w/ Charge Port



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -06 | FCE1812 (High Side) |
| -08 | FCE1813 (High Side) |
| -10 | FCE1814 (Low Side) |

Reusable Nickel-Plated Steel Hose to Hose w/ Charge Port



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -06 | FCE1912 |
| -08 | FCE1913 |
| -10 | FCE1914 |

45° FITTING

Reusable Nickel-Plated Steel Female O-ring Pilot



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -06 | FCE1722 |
| -08 | FCE1723 |
| -10 | FCE1724 |

90° FITTING

Reusable Nickel-Plated Steel Female O-ring Pilot



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -06 | FCE1732 |
| -08 | FCE1733 |
| -10 | FCE1734 |

Reusable Nickel-Plated Steel Female O-ring Pilot with Charge Port



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -06 | FCE1832 |
| -08 | FCE1833 |
| -10 | FCE1834 |

135° FITTING

Reusable Nickel-Plated Steel Female O-ring Pilot



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -08 | FCE1793 |
| -10 | FCE1794 |

Reusable Nickel-Plated Steel Female O-ring Pilot with Charge Port



| Hose Size | Packaged Part Number |
|-----------|----------------------|
| -08 | FCE1893 |
| -10 | FCE1894 |

REPLACEMENT BRASS SLEEVE*



| Size | Part Number | Quantity |
|------|-------------|----------|
| -06 | FCM2430 | 6 |
| -08 | FCM2431 | 6 |
| -10 | FCM2432 | 6 |

*The brass sleeves have a HNBR O-ring inside.

REPLACEMENT O-rings (HNBR)



| Size | Part Number | Quantity |
|------|-------------|----------|
| -06 | FCM3416 | 6 |
| -08 | FCM3417 | 6 |
| -10 | FCM3418 | 6 |



Please see Pages 44-48 for assembly instructions.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

RACING HOSE AND FITTINGS

RACING HOSE, TEFLON*

For the most extreme applications



Our Strongest, Most Compatible Hose.

Superior fluid compatibility, abrasion and corrosion resistance for reliable service.

Made with an extruded Teflon* inner tube that's compatible with a wide range of fluids, including hydraulic brake fluids. The hose has a bright stainless steel wire-braid cover

that resists abrasion and corrosion, providing optimum dependability.

Applications: Offroad brake, transmission, clutch, gauge, N₂O, power steering, hydraulic.

HOSE SPECIFICATIONS

| Hose Dash Size | Hose I.D. INCHES | Hose O.D. INCHES | Maximum Operating Pressure PSI | Minimum Bend Radius INCHES | Vacuum Service INCHES/HG | Bulk Part Number | Package Length Part Number | | | | |
|----------------|------------------|------------------|--------------------------------|----------------------------|--------------------------|------------------|----------------------------|---------|---------|---------|---------|
| | | | | | | | 3 FEET | 6 FEET | 10 FEET | 15 FEET | 20 FEET |
| -03 | .14 | .25 | 3,000 | 1.50 | 28 | FBC0300 | FCC0303 | FCC0306 | FCC0310 | FCC0315 | FCC0320 |
| -04 | .19 | .30 | 3,000 | 2.00 | 28 | FBC0400 | FCC0403 | FCC0406 | FCC0410 | FCC0415 | FCC0420 |
| -06 | .32 | .43 | 2,500 | 4.00 | 28 | FBC0600 | FCC0603 | FCC0606 | FCC0610 | FCC0615 | FCC0620 |
| -08 | .42 | .54 | 2,000 | 5.25 | 28 | FBC0800 | FCC0803 | FCC0806 | FCC0810 | FCC0815 | FCC0820 |

ORDERING INFORMATION

Construction: Extruded Teflon* inner tube with stainless steel wire-braid cover.

Temperature Range: -100°F to +450°F (-73°C to +232°C).



Hose Assembly

After cutting Teflon* and A/C hose, be sure to clean all burrs or debris from the end of the hose. This helps to ensure a secure and leak free seal between the tube and sleeve.

Features:

- Unmatched strength and ultimate flexibility
- Functions smoothly at extreme temperatures
- Withstands constant flexing and vibration
- Resists fatigue and failure under high pressure
- Carries fluids of all kinds without contamination



Teflon* hose is a registered trademark of Dupont and under license from Eaton..

Please see Pages 44-48 for assembly instructions.



STRAIGHT FITTING

| Hose Size | Reusable Steel Male Pipe ¹ | | Reusable Steel Swivel S.A.E. 37° (JIC/AN) ¹ | | Reusable Steel Swivel S.A.E. 45° | | Reusable Steel Inverted Flare S.A.E. Male | | Reusable Stainless Steel Swivel S.A.E. 37° (JIC/AN) | | Steel Crimp S.A.E. 37° (JIC/AN) | |
|-----------|---------------------------------------|------------------|--|----------------------|----------------------------------|--------------|---|------------------|---|--|---------------------------------|--|
| | Packaged Part Number | Pipe Thread Size | Packaged Part Number | Packaged Part Number | Packaged Part Number | Fitting Size | Packaged Part Number | Bulk Part Number | | | | |
| -03 | — | — | FCM1100 | — | — | — | FCM1130 | FBM1124 | | | | |
| -04 | FCM3088 FCM3089 | 1/8 1/4 | FCM1101 | — | — | — | FCM1102 | FBM1125 | | | | |
| -06 | — | — | FCM1103 | FCM1134 | FCM1137 FCM1138 | -05 -06 | — | — | | | | |
| -08 | — | — | FCM1104 | FCM1135 | FCM1139 | -08 | — | — | | | | |

STRAIGHT

| Reusable Steel 10mm Banjo | |
|---------------------------|----------------------|
| Hose Size | Packaged Part Number |
| -03 | FCM3091 |

17° ELBOW

| Reusable Steel 10mm Banjo | |
|---------------------------|----------------------|
| Hose Size | Packaged Part Number |
| -03 | FCM3092 |

45° ELBOW

| Hose Size | Reusable Steel S.A.E. 37° (JIC/AN) | | Reusable Steel S.A.E. 45° | | Reusable Steel Inverted Flare S.A.E. Male | | Forged Adjustable Reusable Stainless Steel Swivel S.A.E. 37° (JIC/AN) | | Steel Crimp S.A.E. 37° (JIC/AN) | |
|-----------|------------------------------------|----------------------|---------------------------|----------------------|---|--------------|---|------------------|---------------------------------|--|
| | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Fitting Size | Packaged Part Number | Bulk Part Number | | |
| -03 | FCM1110 | — | — | — | — | — | FCM1140 | FBM1126 | | |
| -04 | FCM1111 | — | — | — | — | — | FCM1146 | FBM1127 | | |
| -06 | FCM1112 | FCM1114 | FCM1155 FCM1141 | -05 -06 | — | — | — | — | | |
| -08 | FCM1113 ¹ | FCM1113 ¹ | FCM1142 | -08 | — | — | — | — | | |

90° ELBOW

| Hose Size | Reusable Steel S.A.E. 37° (JIC/AN) | | Reusable Steel S.A.E. 45° | | Reusable Steel Inverted Flare S.A.E. Male | | Forged Adjustable Reusable Stainless Steel Swivel S.A.E. 37° (JIC/AN) | | Steel Crimp S.A.E. 37° (JIC/AN) | |
|-----------|------------------------------------|----------------------|---------------------------|----------------------|---|--------------|---|------------------|---------------------------------|--|
| | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Packaged Part Number | Fitting Size | Packaged Part Number | Bulk Part Number | | |
| -03 | FCM1120 | — | — | — | — | — | FCM1150 | FBM1128 | | |
| -04 | FCM1121 | — | — | — | — | — | FCM1151 | FBM1129 | | |
| -06 | FCM1122 | FCM1136 | FCM1143 FCM1144 | -05 -06 | — | — | — | — | | |
| -08 | FCM1123 ¹ | FCM1123 ¹ | FCM1145 | -08 | — | — | — | — | | |

Replacement Sleeves for Teflon* Fittings

REPLACEMENT SLEEVES (5 PER PACKAGE)

| Brass Packaged Part Number | Hose Fitting Dash Size | Stainless Steel Packaged Part Number | Hose Fitting Dash Size |
|----------------------------|------------------------|--------------------------------------|------------------------|
| FCM3720 | -03 | FCM3821 | -03 |
| FCM3721 | -04 | FCM3822 | -04 |
| FCM3823 | -06 | | |
| FCM3824 | -08 | | |

Please see Pages 44-48 for assembly instructions. *Teflon is a registered trademark of Dupont and under license by Eaton.
¹This fitting mates with both 37° (AN) and 45° male flares.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

PRE-MADE OFF-ROAD BRAKELINES AND POWER TRIM ASSEMBLIES

Off-Road Teflon* Brakelines
Completely assembled,
ready to install.



SPECIFICATIONS

| AQP Part Number | | Maximum Operating Pressure |
|--|-----------------------------------|----------------------------|
| Teflon* Hose Straight–Straight AN Swivel Ends | | |
| FBPA0030-10 | -03 Teflon Hose, 10 inch, Str-Str | 3,000 psi |
| FBPA0030-12 | -03 Teflon Hose, 12 inch, Str-Str | 3,000 psi |
| FBPA0030-14 | -03 Teflon Hose, 14 inch, Str-Str | 3,000 psi |
| FBPA0030-15 | -03 Teflon Hose, 15 inch, Str-Str | 3,000 psi |
| FBPA0030-16 | -03 Teflon Hose, 16 inch, Str-Str | 3,000 psi |
| FBPA0030-18 | -03 Teflon Hose, 18 inch, Str-Str | 3,000 psi |
| FBPA0030-20 | -03 Teflon Hose, 20 inch, Str-Str | 3,000 psi |
| FBPA0030-21 | -03 Teflon Hose, 21 inch, Str-Str | 3,000 psi |
| FBPA0030-22 | -03 Teflon Hose, 22 inch, Str-Str | 3,000 psi |
| FBPA0030-24 | -03 Teflon Hose, 24 inch, Str-Str | 3,000 psi |
| FBPA0030-26 | -03 Teflon Hose, 26 inch, Str-Str | 3,000 psi |
| FBPA0030-28 | -03 Teflon Hose, 28 inch, Str-Str | 3,000 psi |
| FBPA0030-30 | -03 Teflon Hose, 30 inch, Str-Str | 3,000 psi |
| FBPA0030-32 | -03 Teflon Hose, 32 inch, Str-Str | 3,000 psi |
| FBPA0030-36 | -03 Teflon Hose, 36 inch, Str-Str | 3,000 psi |
| FBPA0030-42 | -03 Teflon Hose, 42 inch, Str-Str | 3,000 psi |
| FBPA0030-48 | -03 Teflon Hose, 48 inch, Str-Str | 3,000 psi |
| FBPA0030-50 | -03 Teflon Hose, 50 inch, Str-Str | 3,000 psi |

AN Swivel Ends

| | | |
|-------------|-----------------------------------|-----------|
| FBPA0039-10 | -03 Teflon Hose, 10 inch, Str-90° | 3,000 psi |
| FBPA0039-12 | -03 Teflon Hose, 12 inch, Str-90 | 3,000 psi |
| FBPA0039-14 | -03 Teflon Hose, 14 inch, Str-90 | 3,000 psi |
| FBPA0039-15 | -03 Teflon Hose, 15 inch, Str-90 | 3,000 psi |
| FBPA0039-16 | -03 Teflon Hose, 16 inch, Str-90 | 3,000 psi |
| FBPA0039-18 | -03 Teflon Hose, 18 inch, Str-90 | 3,000 psi |
| FBPA0039-20 | -03 Teflon Hose, 20 inch, Str-90 | 3,000 psi |
| FBPA0039-21 | -03 Teflon Hose, 21 inch, Str-90 | 3,000 psi |
| FBPA0039-22 | -03 Teflon Hose, 22 inch, Str-90 | 3,000 psi |
| FBPA0039-24 | -03 Teflon Hose, 24 inch, Str-90 | 3,000 psi |
| FBPA0039-26 | -03 Teflon Hose, 26 inch, Str-90 | 3,000 psi |
| FBPA0039-28 | -03 Teflon Hose, 28 inch, Str-90 | 3,000 psi |
| FBPA0039-30 | -03 Teflon Hose, 30 inch, Str-90 | 3,000 psi |
| FBPA0039-32 | -03 Teflon Hose, 32 inch, Str-90 | 3,000 psi |
| FBPA0039-36 | -03 Teflon Hose, 36 inch, Str-90 | 3,000 psi |
| FBPA0039-42 | -03 Teflon Hose, 42 inch, Str-90 | 3,000 psi |
| FBPA0039-48 | -03 Teflon Hose, 48 inch, Str-90 | 3,000 psi |
| FBPA0039-50 | -03 Teflon Hose, 50 inch, Str-90 | 3,000 psi |

Applications: Off-road brake, clutch, gauge, N₂O

Marine Power
Trim Hose Lines



Eaton's Aeroquip Performance Products Teflon*/stainless steel marine power trim hose assemblies for I/O power trim systems are completely factory-assembled in standard 14½" lengths in both 90° and 45° elbow configurations.

Application: Inboard/outboard power trim systems

HOSE SPECIFICATIONS ORDERING INFORMATION

| Hose Dash Size | Hose I.D. | Hose O.D. | Max. Operating Pressure | Min. Bend Radius | Vacuum Service | Packaged Part Number | Fitting Dash Size | Overall Length | Fitting End Configuration |
|----------------|-----------|-----------|-------------------------|------------------|----------------|----------------------|-------------------|----------------|---|
| | INCHES | INCHES | PSI | INCHES | INCHES/HG | | INCHES | | |
| -04 | .19 | .30 | 2,500 | 2.00 | 28 | FCP0108 | -03 | 14½ | Inverted Flare Straight to Inverted Flare 90° Elbow |
| -04 | .19 | .30 | 2,500 | 2.00 | 28 | FCP0107 | -03 | 14½ | Inverted Flare Straight to Inverted Flare 45° Elbow |

Construction: Extruded Teflon* inner tube with stainless steel single wire-braid cover.

Temperature Range: -100°F to +450°F (-73°C to +232°C).

*Teflon is a registered trademark of Dupont and under license by Eaton.

AQP High Pressure Hose and Fittings
(Power Steering)



Abrasion resistant fabric cover for longer life.






AQP High Pressure Hose is ideal for power steering, hydraulics, air, fuel and lubricating oil applications. It has a blue abrasion resistant fabric cover and an AQP synthetic rubber

inner tube. It uses standard steel and brass reusable fittings.

Applications: Power steering lines, hydraulics, air, gasoline, fuel and lubricating oils, over-the-wall air tools and DOT-approved air brake.

HOSE SPECIFICATIONS

ORDERING INFORMATION

| Hose Dash Size |  |  |  |  |  | Bulk Part Number | Package Length Part Number | | | |
|----------------|---|---|---|---|---|------------------|----------------------------|---------|---------|---------|
| | INCHES | INCHES | PSI | INCHES | INCHES/HG | | 6 FEET | 10 FEET | 15 FEET | 20 FEET |
| -06 | .31 | .67 | 2,250 | 4.00 | 28 | FBG0600 | FCG0606 | FCG0610 | FCG0615 | FCG0620 |
| -08 | .41 | .77 | 2,000 | 4.62 | 28 | FBG0800 | FCG0806 | FCG0810 | FCG0815 | FCG0820 |
| -10 | .50 | .92 | 1,750 | 5.50 | 28 | FBG1000 | FCG1006 | FCG1010 | FCG1015 | FCG1020 |
| -12 | .62 | 1.08 | 1,500 | 6.50 | 28 | FBG1200 | FCG1206 | FCG1210 | FCG1215 | FCG1220 |

Construction: AQP elastomer inner tube, polyester inner braid, single wire-braid reinforcement and blue polyester braid cover.

Temperature Range: Suitable for many applications between -55°F to +300°F (-49°C to +150°C), except air +250F (+121°C).

STRAIGHT FITTING

Reusable Steel Swivel S.A.E. 37° (JIC/AN)



Reusable Steel Male Inverted Flare S.A.E.



| Hose Size | Bulk Part Number | Thread Size | Bulk Part Number | Thread Size |
|-----------|------------------|-------------|------------------|-------------|
| -06 | FBM1302 | 9/16-18 | FBM1363 | 5/8-18 |
| -08 | FBM1305 | 3/4-16 | FBM1365 | 3/4-18 |
| -10 | FBM1307 | 7/8-14 | — | — |
| -12 | FBM1310 | 1 1/16-12 | — | — |

45° ELBOW FITTING

Reusable Steel S.A.E. 37° (JIC/AN)



Reusable Steel Male Inverted Flare S.A.E.



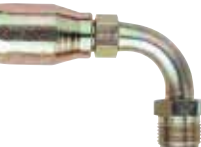
| Hose Size | Bulk Part Number | Thread Size | Bulk Part Number | Thread Size |
|-----------|------------------|-------------|------------------|-------------|
| -06 | FBM1386 | 9/16-18 | FBM1382 | 5/8-18 |
| -08 | FBM1384 | 3/4-16 | FBM1383 | 3/4-18 |
| -10 | FBM1338 | 7/8-14 | — | — |
| -12 | FBM1339 | 1 1/16-12 | — | — |

90° ELBOW FITTING

Reusable Steel S.A.E. 37° (JIC/AN)





Reusable Steel Male Inverted Flare S.A.E.



| Hose Size | Bulk Part Number | Thread Size | Bulk Part Number | Thread Size |
|-----------|------------------|-------------|------------------|-------------|
| -06 | FBM1389 | 9/16-18 | FBM1392 | 5/8-18 |
| -08 | FBM1387 | 3/4-16 | FBM1394 | 3/4-18 |
| -10 | FBM1374 | 7/8-14 | — | — |
| -12 | FBM1376 | 1 1/16-12 | — | — |



HIGH PRESSURE ADAPTERS

Metric Conversion

| A | B | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|--|---|----------------------------|---------------|---------------|
|  |  | FCM2608 | -06 | M16 x 1.5 |
| | | FCM2609 | -06 | M18 x 1.5 |

Note: Used for Saginaw Power Steering Adapter (metric); also G.M. fuel injection conversion adapter for metric O-ring style porting

Inverted Flare

| A | B | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|--|---|----------------------------|---------------|---------------|
|  |  | FCM2963 | -06 | 1/2-20 |
| | | FCM2964 | -06 | 5/8-18 |
| | | FCM2965 | -06 | 1 1/16-18 |

Please see Pages 44-48 for assembly instructions.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

ADAPTERS



Too Tight And Leaking

One of the most common ways the seat or cone on aluminum fittings and adapters can be easily damaged is by over-tightening (see Torque specifications information on Page 51). If a fitting has been over-tightened, it may be damaged and prone to leaks. Dirt and debris on the sealing surface are also common sources of leaks. Always use Eaton's Aeroquip Performance Products dust caps (Page 36) when disconnecting a hose or fitting to help keep contaminants out of hose and adapters.

AN to Pipe Fittings

MALE AN TO PIPE (AN 816)

| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size INCHES |
|---|--|---|-------------------------------------|---------------------|-------------------------------|
| FCM2000 | FCM5000 | FCE2000 | FCM2511 | -03 | 1/8 |
| FCM2001 | FCM5001 | FCE2001 | FCM2512 | -04 | 1/8 |
| FCM2002 | FCM5002 | FCE2002 | FCM2515 | -04 | 1/4 |
| FCM2371 | — | — | FCM2519 | -04 | 3/8 |
| — | — | — | FCM2524 | -04 | 1/2 |
| — | — | — | FCM2513 | -05 | 1/8 |
| — | — | — | FCM2516 | -05 | 1/4 |
| — | — | — | FCM2520 | -05 | 3/8 |
| FCM2003 | FCM5003 | FCE2003 | FCM2514 | -06 | 1/8 |
| FCM2004 | FCM5004 | FCE2004 | FCM2517 | -06 | 1/4 |
| FCM2005 | FCM5005 | FCE2005 | FCM2521 | -06 | 3/8 |
| FCM2013 | FCM5013 | FCE2013 | FCM2525 | -06 | 1/2 |
| — | — | — | FCM2529 | -06 | 3/4 |
| FCM2006 | FCM5006 | FCE2006 | FCM2518 | -08 | 1/4 |
| FCM2007 | FCM5007 | FCE2007 | FCM2522 | -08 | 3/8 |
| FCM2008 | FCM5008 | FCE2008 | FCM2526 | -08 | 1/2 |
| FCM2372 | — | — | FCM2530 | -08 | 3/4 |
| FCM2185 | FCM5185 | FCE2185 | FCM2523 | -10 | 3/8 |
| FCM2009 | FCM5009 | FCE2009 | FCM2527 | -10 | 1/2 |
| — | — | — | FCM2531 | -10 | 3/4 |
| FCM2010 | FCM5010 | FCE2010 | FCM2528 | -12 | 1/2 |
| FCM2011 | FCM5011 | FCE2011 | FCM2532 | -12 | 3/4 |
| FCM2014 | FCM5014 | FCE2014 | FCM2534 | -12 | 1 |
| — | — | — | FCM2539 | -12 | 1 1/4 |
| — | — | — | FCM2544 | -12 | 1 1/2 |
| FCM2015 | FCM5015 | FCE2015 | FCM2533 | -16 | 3/4 |
| FCM2012 | FCM5012 | FCE2012 | FCM2535 | -16 | 1 |
| — | — | — | FCM2540 | -16 | 1 1/4 |
| — | — | — | FCM2545 | -16 | 1 1/2 |
| — | — | — | FCM2536 | -20 | 1 |
| FCM2374 | — | — | FCM2541 | -20 | 1 1/4 |
| — | — | — | FCM2546 | -20 | 1 1/2 |
| — | — | — | FCM2537 | -24 | 1 |
| — | — | — | FCM2542 | -24 | 1 1/4 |
| — | — | — | FCM2547 | -24 | 1 1/2 |
| — | — | — | FCM2538 | -32 | 1 |
| — | — | — | FCM2543 | -32 | 1 1/4 |



AN TO PIPE PRESSURE GAUGE ADAPTER

| Aluminum Blue Anodized Packaged Part Number | "A" Dash Size | "B" Pipe Size INCHES | NPT Port Size INCHES |
|--|---------------------|-------------------------------|-------------------------------|
| FCM2276 | -6 | 1/4 | 1/8 |
| FCM2277 | -6 | 3/8 | 1/8 |
| FCM2278 | -8 | 1/4 | 1/8 |
| FCM2279 | -8 | 3/8 | 1/8 |



AN numbers are for configuration reference only.



45° MALE AN TO PIPE (AN 823)

| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size INCHES |
|---|--|---|----------------------------|---------------|----------------------|
| FCM2020 | FCM5020 | FCE2020 | FCM2581 | -03 | 1/8 |
| FCM2021 | FCM5021 | FCE2021 | FCM2582 | -04 | 1/8 |
| FCM2440 | — | — | FCM2584 | -04 | 1/4 |
| FCM2441 | — | — | FCM2588 | -04 | 3/8 |
| — | — | — | FCM2583 | -05 | 1/8 |
| — | — | — | FCM2585 | -05 | 1/4 |
| FCM2022 | FCM5022 | FCE2022 | FCM2586 | -06 | 1/4 |
| FCM2442 | — | — | FCM2589 | -06 | 3/8 |
| FCM2443 | — | — | FCM2592 | -06 | 1/2 |
| FCM2444 | — | — | FCM2587 | -08 | 1/4 |
| FCM2023 | FCM5023 | FCE2023 | FCM2590 | -08 | 3/8 |
| FCM2445 | — | — | FCM2593 | -08 | 1/2 |
| FCM2446 | — | — | FCM2596 | -08 | 3/4 |
| FCM2447 | — | — | FCM2591 | -10 | 3/8 |
| FCM2024 | FCM5024 | FCE2024 | FCM2594 | -10 | 1/2 |
| FCM2448 | — | — | FCM2597 | -10 | 3/4 |
| FCM2449 | — | — | FCM2595 | -12 | 1/2 |
| FCM2025 | FCM5025 | FCE2025 | FCM2598 | -12 | 3/4 |
| FCM2450 | — | — | FCM2600 | -12 | 1 |
| — | — | — | FCM2599 | -16 | 3/4 |
| FCM2026 | — | — | FCM2601 | -16 | 1 |
| — | — | — | FCM2602 | -20 | 1 |
| FCM2451 | — | — | FCM2603 | -20 | 1 1/4 |

FEMALE PIPE TO MALE AN

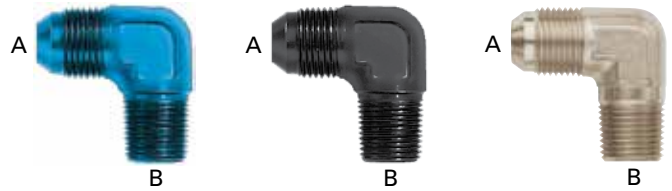


| Steel Packaged Part Number | "A" Dash Size | "B" Dash Size INCHES |
|----------------------------|---------------|----------------------|
| FCM2719 | -03 | 1/8 |
| FCM2720 | -03 | 1/4 |
| FCM2721 | -04 | 1/8 |
| FCM2722 | -05 | 1/8 |
| FCM2723 | -04 | 1/4 |
| FCM2724 | -05 | 1/4 |
| FCM2725 | -06 | 1/4 |
| FCM2726 | -08 | 1/4 |
| FCM2727 | -06 | 3/8 |
| FCM2728 | -08 | 3/8 |
| FCM2729 | -06 | 1/2 |
| FCM2730 | -08 | 1/2 |
| FCM2731 | -10 | 1/2 |
| FCM2732 | -12 | 1/2 |
| FCM2733 | -08 | 3/4 |
| FCM2734 | -10 | 3/4 |
| FCM2735 | -12 | 3/4 |
| FCM2736 | -16 | 1 |
| FCM2737 | -20 | 1 1/4 |

AN numbers are for configuration reference only.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.



90° AN TO PIPE (AN 822)

| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size INCHES |
|---|--|---|----------------------------|---------------|----------------------|
| FCM2030 | FCM5030 | FCE2030 | FCM2610 | -03 | 1/8 |
| FCM2031 | FCM5031 | FCE2031 | FCM2611 | -04 | 1/8 |
| FCM2032 | FCM5032 | FCE2032 | FCM2614 | -04 | 1/4 |
| — | — | — | FCM2618 | -04 | 3/8 |
| — | — | — | FCM2624 | -04 | 1/2 |
| — | — | — | FCM2612 | -05 | 1/8 |
| — | — | — | FCM2615 | -05 | 1/4 |
| — | — | — | FCM2619 | -05 | 3/8 |
| FCM2033 | FCM5033 | FCE2033 | FCM2613 | -06 | 1/8 |
| FCM2034 | FCM5034 | FCE2034 | FCM2616 | -06 | 1/4 |
| FCM2035 | FCM5035 | FCE2035 | FCM2620 | -06 | 3/8 |
| FCM2290 | — | — | FCM2625 | -06 | 1/2 |
| FCM2036 | FCM5036 | FCE2036 | FCM2617 | -08 | 1/4 |
| FCM2037 | FCM5037 | FCE2037 | FCM2621 | -08 | 3/8 |
| FCM2038 | FCM5038 | FCE2038 | FCM2626 | -08 | 1/2 |
| FCM2291 | — | — | FCM2629 | -08 | 3/4 |
| FCM2016 | FCM5016 | FCE2016 | FCM2622 | -10 | 3/8 |
| FCM2039 | FCM5039 | FCE2039 | FCM2627 | -10 | 1/2 |
| FCM2292 | — | — | FCM2630 | -10 | 3/4 |
| — | — | — | FCM2623 | -12 | 3/8 |
| FCM2017 | FCM5017 | FCE2017 | FCM2628 | -12 | 1/2 |
| FCM2040 | FCM5040 | FCE2040 | FCM2631 | -12 | 3/4 |
| FCM2293 | — | — | FCM2633 | -12 | 1 |
| FCM2018 | — | — | FCM2632 | -16 | 3/4 |
| FCM2041 | — | — | FCM2634 | -16 | 1 |
| — | — | — | FCM2636 | -16 | 1 1/4 |
| — | — | — | FCM2635 | -20 | 1 |
| FCM2294 | — | — | FCM2637 | -20 | 1 1/4 |
| — | — | — | FCM2639 | -20 | 1 1/2 |
| — | — | — | FCM2638 | -24 | 1 1/4 |



ADAPTERS (CONT.)

AN to AN Fittings

FLARE UNION (AN 815)



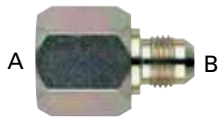
| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|---|----------------------------|---------------|---------------|
| FCM2050 | FCM5050 | FCE2050 | FCM2750 | -03 | -03 |
| FCM2051 | FCM5051 | FCE2051 | FCM2751 | -04 | -04 |
| — | — | — | FCM2753 | -05 | -05 |
| FCM2052 | FCM5052 | FCE2052 | FCM2756 | -06 | -06 |
| FCM2053 | FCM5053 | FCE2053 | FCM2759 | -08 | -08 |
| FCM2054 | FCM5054 | FCE2054 | FCM2761 | -10 | -10 |
| FCM2055 | FCM5055 | FCE2055 | FCM2763 | -12 | -12 |
| FCM2056 | FCM5056 | FCE2056 | FCM2765 | -16 | -16 |
| — | — | — | FCM2766 | -20 | -20 |

UNION REDUCER (AN 919)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|---|----------------------------|---------------|---------------|
| FCM2048 | FCM5048 | FCE2048 | FCM2749 | -04 | -03 |
| — | — | — | FCM2752 | -05 | -04 |
| FCM2156 | FCM5156 | FCE2156 | FCM2754 | -06 | -04 |
| — | — | — | FCM2755 | -06 | -05 |
| FCM2049 | FCM5049 | FCE2049 | FCM2757 | -08 | -04 |
| FCM2160 | FCM5160 | FCE2160 | FCM2758 | -08 | -06 |
| FCM2188 | — | — | — | -10 | -04 |
| FCM2162 | FCM5162 | FCE2162 | — | -10 | -06 |
| FCM2163 | FCM5163 | FCE2163 | FCM2760 | -10 | -08 |
| FCM2189 | — | — | — | -12 | -04 |
| FCM2165 | — | — | — | -12 | -06 |
| FCM2166 | FCM5166 | FCE2166 | — | -12 | -08 |
| FCM2167 | FCM5167 | FCE2167 | FCM2762 | -12 | -10 |
| FCM2169 | — | — | — | -16 | -10 |
| FCM2170 | FCM5170 | FCE2170 | FCM2764 | -16 | -12 |

REDUCER AN FLARE SWIVEL/AN FLARE (JIC/AN)



| Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|----------------------------|---------------|---------------|
| FCM2408 | -06 | -04 |
| FCM2409 | -08 | -04 |
| FCM2410 | -08 | -06 |
| FCM2411 | -10 | -06 |
| FCM2413 | -12 | -06 |
| FCM2414 | -12 | -08 |
| FCM2416 | -16 | -06 |

REDUCER AN FLARE/AN FLARE (JIC/AN)



| Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|----------------------------|---------------|---------------|
| FCM2421 | -10 | -08 |
| FCM2422 | -12 | -10 |

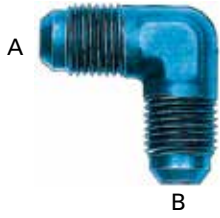


AN (Army-Navy)

The AN (Army-Navy) standard was established many years ago by the U.S. military to set a common measurement for hose and fittings. It designates the outside diameter (O.D.) of the ridged metal tube that is compatible with each size of fitting. Still today, this AN dash standard is the benchmark measurement for military, industrial and the performance hose applications. These dash sizes are expressed as the numerator of the fraction, with the denominator always being 16. For example, a -04 port is 4/16 or 1/4-inch.

AN numbers are for configuration reference only.

90° ELBOW UNION (AN 821)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|---|---------------|---------------|
| FCM2186 | FCM5186 | FCE2186 | -03 | -03 |
| FCM2119 | FCM5119 | — | -04 | -04 |
| FCM2120 | FCM5120 | FCE2120 | -06 | -06 |
| FCM2190 | FCM5190 | FCE2190 | -08 | -08 |
| FCM2191 | — | — | -12 | -12 |

90° MALE AN TO AN PRESSURE GAUGE ADAPTER



| Blue Anodized Packaged Part Number | "A" Dash Size | "B" Dash Size | NPT Port Size |
|------------------------------------|---------------|---------------|---------------|
| | | INCHES | INCHES |
| FCM2272 | -6 | -6 | 1/8 |
| FCM2273 | -8 | -8 | 1/8 |
| FCM2274 | -10 | -10 | 1/8 |

AN Swivel Adapters

FEMALE FLARE SWIVEL



| Aluminum Blue Anodized Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|---------------|---------------|
| FCM2914 | -04 | -04 |
| FCM2915 | -06 | -06 |
| FCM2916 | -08 | -08 |
| FCM2917 | -10 | -10 |
| FCM2918 | -12 | -12 |
| FCM2919 | -16 | -16 |

45° MALE AN TO FEMALE SWIVEL FLARE



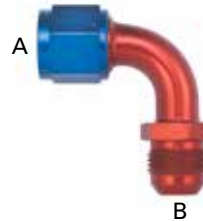
| Aluminum Packaged Part Number | "A" Dash Size | "B" Dash Size |
|-------------------------------|---------------|---------------|
| FCM3148 | -6 | -6 |
| FCM3149 | -8 | -8 |
| FCM3150 | -10 | -10 |
| FCM3151 | -12 | -12 |

45° FEMALE FLARE SWIVEL



| Aluminum Blue/Red Anodized Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|---------------|---------------|
| FCM2971 | -06 | -06 |
| FCM2972 | -08 | -08 |
| FCM2973 | -10 | -10 |
| FCM2974 | -12 | -12 |
| FCM2975 | -16 | -16 |

90° MALE AN TO FEMALE SWIVEL FLARE



| Aluminum Packaged Part Number | "A" Dash Size | "B" Dash Size |
|-------------------------------|---------------|---------------|
| FCM3155 | -6 | -6 |
| FCM3156 | -8 | -8 |
| FCM3157 | -10 | -10 |
| FCM3158 | -12 | -12 |

90° FEMALE FLARE SWIVEL



| Aluminum Blue/Red Anodized Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|---------------|---------------|
| FCM2978 | -06 | -06 |
| FCM2979 | -08 | -08 |
| FCM2980 | -10 | -10 |
| FCM2981 | -12 | -12 |
| FCM2982 | -16 | -16 |



AN numbers are for configuration reference only.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

ADAPTERS (CONT.)

Pipe to Pipe

MALE PIPE NIPPLE (AN 911)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Pipe Size INCHES | "B" Pipe Sizes INCHES |
|---|--|---|----------------------|-----------------------|
| FCM2132 | FCM5132 | FCE2132 | 1/8 | 1/8 |
| FCM2133 | FCM5133 | FCE2133 | 1/4 | 1/4 |
| FCM2134 | FCM5134 | FCE2134 | 3/8 | 3/8 |
| FCM2135 | FCM5135 | FCE2135 | 1/2 | 1/2 |

PIPE COUPLING (AN 910)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Pipe Size INCHES | "B" Pipe Size INCHES |
|---|--|---|----------------------|----------------------|
| FCM2129 | FCM5129 | FCE2129 | 1/8 | 1/8 |
| FCM2130 | FCM5130 | FCE2130 | 1/4 | 1/4 |
| FCM2131 | FCM5131 | — | 3/8 | 3/8 |

PIPE BUSHING (AN 912)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Pipe Size INCHES | "B" Pipe Size INCHES |
|---|--|---|----------------------|----------------------|
| FCM2136 | FCM5136 | FCE2136 | 1/4 | 1/8 |
| FCM2137 | FCM5137 | FCE2137 | 3/8 | 1/4 |
| FCM2138 | FCM5138 | FCE2138 | 3/8 | 1/8 |
| FCM2139 | FCM5139 | FCE2139 | 1/2 | 3/8 |
| FCM2140 | FCM5140 | FCE2140 | 1/2 | 1/4 |
| FCM2141 | FCM5141 | FCE2141 | 1/2 | 1/8 |
| FCM2144 | — | — | 3/4 | 1/4 |
| FCM2143 | — | — | 3/4 | 3/8 |
| FCM2142 | FCM5142 | FCE2142 | 3/4 | 1/2 |
| FCM2146 | — | — | 1 | 1/2 |
| FCM2145 | — | — | 1 | 3/4 |

90° ELBOW, FEMALE TO MALE PIPE ELBOW (AN 914)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Pipe Size INCHES | "B" Pipe Size INCHES |
|---|--|---|----------------------|----------------------|
| FCM2147 | FCM5147 | FCE2147 | 1/8 | 1/8 |
| FCM2148 | FCM5148 | — | 1/4 | 1/4 |
| FCM2149 | FCM5149 | — | 3/8 | 3/8 |

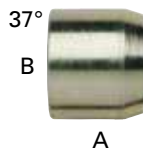
Tube Fittings

VERSIL-FLARE™ FLARELESS TUBE NUT¹



| Part Number | Dash Size | Tube O.D. | Thread | A |
|-------------|-----------|-----------|-----------|------|
| FCM2496 | -04 | .25 | 7/16-20 | .82 |
| FCM2497 | -06 | .38 | 9/16-18 | .86 |
| FCM2498 | -08 | .50 | 3/4-16 | 1.08 |
| FCM2499 | -10 | .63 | 7/8-14 | 1.12 |
| FCM2500 | -12 | .75 | 1 1/16-12 | 1.35 |

VERSIL-FLARE™ FLARELESS TUBE FERRULE¹




| Part Number | Dash Size | Tube O.D. | A | B |
|-------------|-----------|-----------|------|-----|
| FCM2491 | -04 | .25 | .82 | .25 |
| FCM2492 | -06 | .38 | .86 | .38 |
| FCM2493 | -08 | .50 | 1.08 | .50 |
| FCM2494 | -10 | .63 | 1.12 | .62 |
| FCM2495 | -12 | .75 | 1.36 | .75 |

¹ Versil-Flare tube nut and tube sleeve are only to be used together.


AN numbers are for configuration reference only.

TUBE NUT (AN 818)¹


| | Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | No. Per Pkg. Alum. | No. Per Pkg. Steel |
|---|---|--|----------------------------|---------------|--------------------|--------------------|
|  | FCM3554 | FCM5554 | FCM3591 | -03 | 6 | 1 |
| | FCM3555 | FCM5555 | FCM3570 | -04 | 6 | 1 |
| | — | — | FCM3571 | -05 | — | 1 |
| | FCM3675 | FCM5675 | FCM3572 | -06 | 2 | 1 |
| | FCM3676 | — | FCM3573 | -08 | 2 | 1 |
| | FCM3677 | FCM5677 | FCM3574 | -10 | 2 | 1 |
| | FCM3678 | FCM5678 | FCM3575 | -12 | 2 | 1 |
| | — | — | FCM3576 | -14 | — | 1 |
| | FCM3829 | FCM5829 | FCM3577 | -16 | — | 1 |
| | FCM3830 | FCM5830 | FCM3578 | -20 | — | 1 |

Caps and Plugs

CAP (AN 929)²

| | Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | No. Per Pkg. Alum. | No. Per Pkg. Steel |
|---|---|--|----------------------------|---------------|--------------------|--------------------|
|  | FCM3751 | FCM5751 | FCM3479 | -03 | 2 | 6 |
| | FCM3752 | FCM5752 | FCM3480 | -04 | 2 | 6 |
| | — | — | FCM3601 | -05 | — | 2 |
| | FCM3740 | FCM5740 | FCM3602 | -06 | 1 | 2 |
| | FCM3741 | FCM5741 | FCM3603 | -08 | 1 | 2 |
| | FCM3742 | FCM5742 | FCM3604 | -10 | 1 | 2 |
| | FCM3743 | FCM5743 | FCM3605 | -12 | 1 | 2 |
| | FCM3744 | FCM5744 | FCM3566 | -16 | 1 | 1 |
| | FCM3567 | FCM5567 | FCM3567 | -20 | — | 1 |

O-ring BOSS PLUG (AN 814)

| | Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | "A" Dash Size |
|---|---|--|---------------|
|  | FCM3722 | FCM5722 | -03 |
| | FCM3723 | FCM5723 | -04 |
| | FCM3724 | FCM5724 | -06 |
| | FCM3725 | FCM5725 | -08 |
| | FCM3726 | FCM5726 | -10 |
| | FCM3727 | FCM5727 | -12 |
| | FCM3827 | FCM5827 | -16 |
| | FCM3828 | FCM5828 | -20 |

For replacement O-rings see Page 37.



Abrasion Concerns


Abrasion is one of the leading causes of hose failures. AQP Racing Hose offers a great steel "armor cover", and StartLite offers the industry's best abrasion resistance of any lightweight hose. Regardless of the type of hose, always route the hose correctly and use support clamps where needed. See page 52 for routing tips.

AN numbers are for configuration reference only.


Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.


TUBE SLEEVE (AN 819)¹

| | Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | Number Per Package |
|---|---|--|----------------------------|---------------|--------------------|
|  | FCM3669 | FCM5669 | FCM3667 | -03 | 6 |
| | FCM3670 | FCM5670 | FCM3668 | -04 | 6 |
| | — | — | FCM3679 | -05 | 2 |
| | FCM3671 | FCM5671 | FCM3680 | -06 | 2 |
| | FCM3672 | FCM5672 | FCM3681 | -08 | 2 |
| | FCM3673 | FCM5673 | FCM3682 | -10 | 2 |
| | FCM3674 | FCM5674 | FCM3683 | -12 | 2 |
| | — | — | FCM3696 | -14 | 1 |
| | FCM3831 | FCM5831 | FCM3697 | -16 | 1 |
| | FCM3832 | FCM5832 | FCM3698 | -20 | 1 |

ALLEN HEAD PIPE PLUG (AN 932)

| | Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | "A" Pipe Size INCHES | Number Per Package |
|---|---|--|----------------------|--------------------|
|  | FCM3684 | FCM5684 | 1/16 | 2 |
| | FCM3685 | FCM5685 | 1/8 | 2 |
| | FCM3686 | FCM5686 | 1/4 | 2 |
| | FCM3687 | FCM5687 | 3/8 | 2 |
| | FCM3749 | FCM5749 | 1/2 | 1 |
| | FCM3750 | FCM5750 | 3/4 | 1 |

FLARE PLUG (AN 806)

| | Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size |
|---|---|--|----------------------------|---------------|
|  | FCM3712 | FCM5712 | FCM3701 | -03 |
| | FCM3713 | FCM5713 | FCM3702 | -04 |
| | FCM3714 | FCM6714 | FCM3703 | -06 |
| | FCM3715 | FCM5715 | FCM3704 | -08 |
| | FCM3716 | FCM5716 | FCM3705 | -10 |
| | FCM3717 | FCM5717 | FCM3706 | -12 |
| | FCM3718 | FCM5718 | FCM3707 | -16 |
| | FCM3719 | FCM5719 | FCM3708 | -20 |



¹Tube nut and tube sleeve are only to be used together.

²Aluminum tube caps are 2 piece.

ADAPTERS (CONT.)

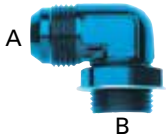
O-ring Boss (ORB) to Male AN

O-ring BOSS TO MALE 37°



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|---|----------------------------|---------------|---------------|
| FCM2992* | FCM5992* | — | — | -04 | -04 |
| FCM2993* | FCM5993* | — | — | -06 | -06 |
| FCM2995* | FCM5995* | — | — | -08 | -08 |
| FCM2996* | FCM5996* | — | — | -06 | -06 |
| FCM2997* | FCM5997* | — | — | -08 | -08 |
| FCM2998* | FCM5998* | — | — | -10 | -08 |
| FCM2999* | FCM5999* | — | — | -08 | -10 |
| FCM2953* | FCM5953* | FCE2953* | FCM2957* | -10 | -10 |
| FCM2954* | FCM5954* | FCE2954* | FCM2958* | -10 | -12 |
| FCM3001* | FCM6001* | — | — | -12 | -10 |
| FCM2955* | FCM5955* | FCE2955* | FCM2959* | -12 | -12 |
| FCM2956* | FCM5956* | FCE2956* | FCM2960* | -12 | -16 |
| FCM3002* | FCM6002* | — | — | -16 | -12 |
| FCM3003* | FCM6003* | — | — | -16 | -16 |

LOW PROFILE 90° O-ring BOSS TO MALE 37°



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|-------------------------------------|---|---------------|---------------|
| FCM2263* | FCM5263* | FCE2263* | -12 | -12 |

AN to Metric

AN FLARE TO METRIC ADAPTERS



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Dash Size | "B" Pipe Size |
|---|--|---|---------------|---------------|
| FCM2239 | — | — | -04 | 10MM x 1.0 |
| FCM2246 | FCM5246 | FCE2246 | -06 | 12MM x 1.5 |
| FCM2240 | FCM5240 | FCE2240 | -06 | 14MM x 1.5 |
| FCM2241 | FCM5241 | — | -06 | 16MM x 1.5 |
| FCM2242 | — | — | -06 | 18MM x 1.5 |
| FCM2243 | FCM5243 | FCE2243 | -08 | 16MM x 1.5 |
| FCM2244 | FCM5244 | — | -08 | 18MM x 1.5 |
| FCM2245 | FCM5245 | — | -10 | 18MM x 1.5 |

METRIC CONVERSION ADAPTERS



| Steel Packaged Part Number | "A" Dash Size | "B" Pipe Size |
|----------------------------|---------------|---------------|
| FCM2608 | -06 | M16 x 1.5 |
| FCM2609 | -06 | M18 x 1.5 |

Note: Used for Saginaw Power Steering Adapter (metric); also G.M. fuel injection conversion adapter for metric O-ring style porting.

High Pressure Adapters

INVERTED FLARE



| Steel Packaged Part Number | "A" Dash Size | "B" Pipe Size INCHES |
|----------------------------|---------------|----------------------|
| FCM2963 | -06 | 1/2-20 |
| FCM2964 | -06 | 5/8-18 |
| FCM2965 | -06 | 11/16-18 |

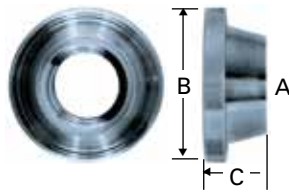
*O-ring material is Viton.

Aluminum Tank Welding Bungs

AN NUMBERS ARE FOR CONFIGURATION REFERENCE ONLY.

Connects to Male AN Flare with hex and O-ring (AN 816, AN 919, AN 832 and O-ring Boss Plug). Refer to Page 24 for O-rings.

TANK WELDING BUNGS (AN 871)



| Packaged Part Number | "A" Dash Size | "B" | "C" |
|----------------------|---------------|------|-----|
| FCM2403 | -06 | 1.56 | .59 |
| FCM2404 | -08 | 1.75 | .68 |
| FCM2405 | -10 | 1.87 | .75 |
| FCM2406 | -12 | 2.00 | .90 |
| FCM2407 | -16 | 2.25 | .93 |

Special Flare Adapters

FLARE TO BRAZE (UNPLATED)

| Steel Packaged Part Number | "A" Dash Size | "B" Tube O.D. INCHES | "C" Counterbore Depth |
|----------------------------|---------------|----------------------|-----------------------|
| FCM2871 | -04 | 1/4 | .16 |
| FCM2872 | -06 | 3/8 | .16 |
| FCM2873 | -06 | 1/2 | .16 |
| FCM2874 | -08 | 1/2 | .16 |
| FCM2875 | -10 | 5/8 | .16 |
| FCM2876 | -10 | 3/4 | .25 |
| FCM2877 | -12 | 3/4 | .25 |
| FCM2878 | -12 | 1 | .25 |
| FCM2879 | -16 | 1 | .25 |
| FCM2880 | -20 | 1 1/4 | .25 |



Bulkhead Adapters

BULKHEAD UNION² (AN 832)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|---|----------------------------|---------------|---------------|
| FCM2769 | FCM5769 | FCE2769 | FCM2770 | -03 | -03 |
| FCM2071 | FCM5071 | FCE2071 | FCM2771 | -04 | -04 |
| — | — | — | FCM2772 | -04 | -06 |
| — | — | — | FCM2773 | -05 | -05 |
| FCM2072 | FCM5072 | FCE2072 | FCM2774 | -06 | -06 |
| FCM2073 | FCM5073 | FCE2073 | FCM2775 | -08 | -08 |
| FCM2074 | FCM5074 | FCE2074 | FCM2776 | -10 | -10 |
| FCM2075 | FCM5075 | FCE2075 | FCM2777 | -12 | -12 |
| FCM2076 | FCM5076 | FCE2076 | FCM2778 | -16 | -16 |
| FCM2077 | FCM5077 | FCE2077 | FCM2779 | -20 | -20 |

45° ELBOW BULKHEAD UNION¹ (AN 837)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|----------------------------|---------------|---------------|
| FCM2893 | FCM5893 | — | -03 | -03 |
| FCM2127 | — | FCM2781 | -04 | -04 |
| — | — | FCM2782 | -05 | -05 |
| FCM2128 | — | FCM2783 | -06 | -06 |
| FCM2425 | — | FCM2784 | -08 | -08 |
| FCM2426 | — | FCM2785 | -10 | -10 |
| — | — | FCM2786 | -12 | -12 |
| — | — | FCM2787 | -16 | -16 |
| — | — | FCM2788 | -20 | -20 |

90° ELBOW BULKHEAD UNION¹ (AN 833)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size |
|---|--|---|----------------------------|---------------|---------------|
| FCM2799 | FCM5799 | FCE2799 | FCM2790 | -03 | -03 |
| FCM2081 | FCM5081 | FCE2081 | FCM2791 | -04 | -04 |
| — | — | — | FCM2792 | -05 | -05 |
| FCM2082 | FCM5082 | FCE2082 | FCM2793 | -06 | -06 |
| FCM2083 | FCM5083 | FCE2083 | FCM2794 | -08 | -08 |
| FCM2084 | FCM5084 | FCE2084 | FCM2795 | -10 | -10 |
| FCM2085 | FCM5085 | — | FCM2796 | -12 | -12 |
| FCM2086 | — | — | FCM2797 | -16 | -16 |
| — | — | — | FCM2798 | -20 | -20 |

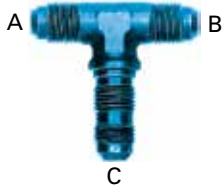
AN numbers are for configuration reference only.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

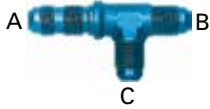
ADAPTERS (CONT.)

BULKHEAD TEE¹ (AN 834)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Dash Size | "C" Dash Size |
|---|--|----------------------------|---------------|---------------|---------------|
| FCM2808 | — | FCM2800 | -03 | -03 | -03 |
| FCM2091 | FCM5091 | FCM2801 | -04 | -04 | -04 |
| — | — | FCM2802 | -05 | -05 | -05 |
| FCM2092 | — | FCM2803 | -06 | -06 | -06 |
| FCM2093 | — | FCM2804 | -08 | -08 | -08 |
| FCM2899 | — | FCM2805 | -10 | -10 | -10 |
| — | — | FCM2806 | -12 | -12 | -12 |
| — | — | FCM2807 | -16 | -16 | -16 |

BULKHEAD RUN TEE¹ (AN 804)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part No. | "A" Dash Size | "B" Dash Size | "C" Dash Size |
|---|--|---|-------------------------|---------------|---------------|---------------|
| FCM2815 | FCM5815 | FCE2815 | FCM2809 | -03 | -03 | -03 |
| FCM2117 | — | — | — | -04 | -04 | -04 |
| FCM2118 | — | — | FCM2811 | -06 | -06 | -06 |
| FCM2180 | — | — | FCM2812 | -08 | -08 | -08 |
| FCM2816 | — | — | FCM2813 | -12 | -12 | -12 |
| — | — | — | FCM2814 | -16 | -16 | -16 |

BULKHEAD MALE CONNECTOR²



| Steel Packaged Part Number | "A" Dash Size | "B" Pipe Size INCHES |
|----------------------------|---------------|----------------------|
| FCM2831 | -04 | 1/4 |
| FCM2832 | -08 | 3/8 |
| FCM2833 | -10 | 1/2 |
| FCM2834 | -12 | 3/4 |
| FCM2835 | -16 | 1 |

BULKHEAD FEMALE CONNECTOR²



| Steel Packaged Part Number | "A" Dash Size | "B" Pipe Size INCHES |
|----------------------------|---------------|----------------------|
| FCM2821 | -04 | 1/8 |
| FCM2822 | -08 | 3/8 |
| FCM2823 | -10 | 1/2 |
| FCM2824 | -12 | 3/4 |
| FCM2825 | -16 | 1 |

LOCKNUT (AN 924)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | Steel Packaged Part Number | Dash Size | Number Per Package |
|---|--|---|----------------------------|-----------|--------------------|
| FCM3556 | FCM5556 | FCE3556 | FCM2095 | -03 | 2 |
| FCM2099 | FCM5099 | FCE2099 | FCM2096 | -04 | 2 |
| — | — | — | FCM2097 | -05 | 2 |
| FCM2100 | FCM5100 | FCE2100 | FCM2098 | -06 | 2 |
| FCM2103 | FCM5103 | FCE2103 | FCM3584 | -08 | 1 |
| FCM2104 | FCM5104 | FCE2104 | FCM3585 | -10 | 1 |
| FCM2105 | FCM5105 | FCE2105 | FCM3586 | -12 | 1 |
| FCM2106 | FCM5106 | FCE2106 | FCM3587 | -16 | 1 |
| FCM3833 | — | — | FCM3588 | -20 | 1 |

AN numbers are for configuration reference only.

¹Aluminum part numbers do NOT include locknut. Locknut must be ordered separately for aluminum parts. Steel parts DO include nuts.

²Locknut included.

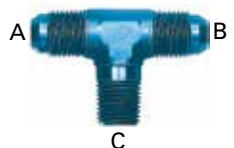
Tee Adapters

UNION TEE (AN 824)



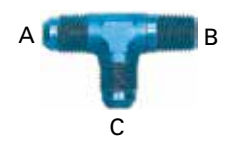
| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Dash Size | "B" Dash Size | "C" Dash Size |
|---|--|---|---------------|---------------|---------------|
| FCM2060 | FCM5060 | FCE2060 | -03 | -03 | -03 |
| FCM2061 | FCM5061 | FCE2061 | -04 | -04 | -04 |
| FCM2062 | FCM5062 | FCE2063 | -06 | -06 | -06 |
| FCM2063 | FCM5063 | FCE2064 | -08 | -08 | -08 |
| FCM2064 | FCM5064 | — | -10 | -10 | -10 |
| FCM2065 | FCM5065 | — | -12 | -12 | -12 |
| FCM2066 | — | — | -16 | -16 | -16 |

MALE BRANCH TEE (AN 825)



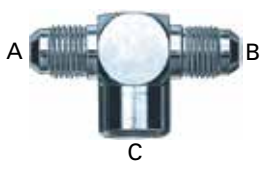
| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Dash Size | "B" Dash Size | "C" Pipe Size INCHES |
|---|--|---|---------------|---------------|----------------------|
| FCM2187 | FCM5187 | FCE2187 | -03 | -03 | 1/8 |
| FCM2121 | FCM5121 | FCE2121 | -04 | -04 | 1/8 |
| FCM2122 | FCM5122 | FCE2122 | -06 | -06 | 1/4 |
| FCM2123 | FCM5123 | — | -08 | -08 | 3/8 |
| FCM2251 | — | — | -10 | -10 | 3/8 |
| FCM2252 | — | — | -12 | -12 | 3/4 |

MALE RUN TEE (AN 826)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Anodized Packaged Part Number | Steel Packaged Part Number | "A" Dash Size | "B" Pipe Size | "C" Dash Size INCHES |
|---|--|----------------------------|---------------|---------------|----------------------|
| FCM2714 | FCM5714 | FCM2700 | -03 | 1/8 | -03 |
| FCM2124 | FCM5124 | FCM2701 | -04 | 1/8 | -04 |
| — | — | FCM2703 | -04 | 1/4 | -04 |
| — | — | FCM2702 | -05 | 1/8 | -05 |
| FCM2125 | FCM5125 | FCM2704 | -06 | 1/4 | -06 |
| — | — | FCM2705 | -06 | 3/8 | -06 |
| FCM2126 | FCM5126 | FCM2706 | -08 | 3/8 | -08 |
| — | — | FCM2707 | -08 | 1/2 | -08 |
| — | — | FCM2708 | -10 | 1/2 | -10 |
| FCM2298 | — | FCM2709 | -10 | 3/4 | -10 |
| FCM2299 | — | FCM2710 | -12 | 3/4 | -12 |
| — | — | FCM2711 | -16 | 1 | -16 |
| — | — | FCM2712 | -20 | 1 1/4 | -20 |

FEMALE PIPE FLARE TEE



| Steel Packaged Part Number | "A" Dash Size | "B" Dash Size INCHES | "C" Pipe Size |
|----------------------------|---------------|----------------------|---------------|
| FCM2881 | -03 | -03 | 1/8 |
| FCM2882 | -04 | -04 | 1/8 |
| FCM2883 | -04 | -04 | 1/4 |
| FCM2884 | -06 | -06 | 1/4 |
| FCM2885 | -08 | -08 | 3/8 |

FEMALE PIPE FLARE TEE



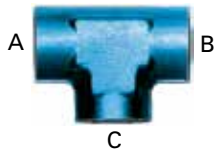
| Steel Packaged Part Number | "A" Dash Size | "B" Pipe Size | "C" Dash Size INCHES |
|----------------------------|---------------|---------------|----------------------|
| FCM2817 | -03 | 1/8 | -03 |
| FCM2818 | -04 | 1/8 | -04 |
| FCM2819 | -04 | 1/4 | -04 |

Bulk or Retail Packaged Parts

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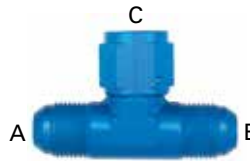
ADAPTERS (CONT.)

FEMALE FLARE TEE



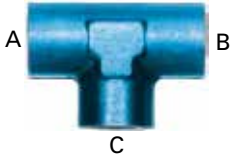
| Aluminum Blue Anodized Packaged Part Number | "A" Dash Size | "B" Dash Size | "C" Dash Size |
|---|---------------|---------------|---------------|
| FCM2173 | -04 | -04 | -04 |
| FCM2174 | -06 | -06 | -06 |
| FCM2175 | -08 | -08 | -08 |
| FCM2176 | -10 | -10 | -10 |
| FCM2177 | -12 | -12 | -12 |

TEE WITH FEMALE ON THE BOTTOM



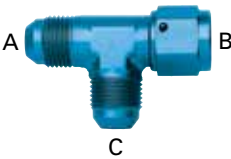
| Aluminum Blue Anodized Packaged Part Number | "A" Dash Size | "B" Dash Size | "C" Dash Size |
|---|---------------|---------------|---------------|
| FCM2281 | -4 | -4 | -4 |
| FCM2282 | -6 | -6 | -6 |
| FCM2283 | -8 | -8 | -8 |
| FCM2284 | -10 | -10 | -10 |
| FCM2285 | -12 | -12 | -12 |
| FCM2286 | -16 | -16 | -16 |

FEMALE PIPE TEE (AN 917)



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Packaged Part Number | Aluminum Nickel-Plated Packaged Part Number | "A" Pipe Size INCHES | "B" Pipe Size INCHES | "C" Pipe Size INCHES |
|---|-------------------------------------|---|----------------------|----------------------|----------------------|
| FCM2150 | FCM5150 | FCE2150 | 1/8 | 1/8 | 1/8 |
| FCM2151 | FCM5151 | — | 1/4 | 1/4 | 1/4 |
| FCM2152 | FCM5152 | — | 3/8 | 3/8 | 3/8 |

FEMALE ON THE RUN TEE



| Aluminum Blue Anodized Packaged Part Number | Aluminum Black Packaged Part Number | "A" Dash Size | "B" Dash Size | "C" Dash Size |
|---|-------------------------------------|---------------|---------------|---------------|
| FCM2254 | FCM5254 | -04 | -04 | -04 |
| FCM2255 | FCM5255 | -06 | -06 | -06 |
| FCM2256 | FCM5256 | -08 | -08 | -08 |
| FCM2257 | — | -10 | -10 | -10 |
| FCM2258 | — | -12 | -12 | -12 |
| FCM2259 | — | -16 | -16 | -16 |

Inverted Flare Brake Adapters

S.A.E. 37° MALE FLARE TO 42° INVERTED FLARE

[Short; 2 per package]

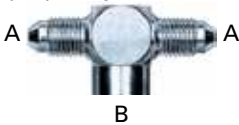


| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size | Length INCHES |
|----------------------------|----------------------------|-----------------------|---------------|
| FCM2926 | -03 | 3/8 - 24 | 1.07 |
| FCM2927 | -04 | 3/8 - 24 | 1.14 |
| FCM2928 | -03 | 3/8 - 24 | 1.07 |
| FCM2929 | -03 | 7/16 - 24 | 1.14 |
| FCM2930 | -04 | 7/16 - 24 | 1.14 |
| FCM2931 | -04 | 1/2 - 20 | 1.16 |

Note: FCM2926 has a 9/16" hex and FCM2928 has a 7/16" hex.

S.A.E. 37° MALE FLARE TO FEMALE INVERTED FLARE TEE

[1 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2909 | -03 | 3/8 - 24 |
| FCM2910 | -04 | 3/8 - 24 |

S.A.E. 37° MALE FLARE TO 42° MALE INVERTED FLARE

[Long 2-3/8"; 2 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2932 | -03 | 3/8 - 24 |
| FCM2933 | -04 | 3/8 - 24 |
| FCM2934 | -03 | 7/16 - 24 |
| FCM2935 | -04 | 7/16 - 24 |

S.A.E. 37° MALE FLARE TO 30° INVERTED FLARE

[Short; 2 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size | Length INCHES |
|----------------------------|----------------------------|-----------------------|---------------|
| FCM2950 | -04 | 7/16 - 20 | 2.50 |
| FCM2925 | -04 | 7/16 - 20 | 1.33 |

S.A.E. 37° MALE FLARE TO FEMALE INVERTED FLARE

[2 per package]

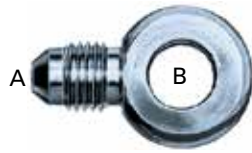


| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2936 | -03 | 3/8 - 24 |
| FCM2937 | -04 | 3/8 - 24 |

S.A.E. Banjo Brake Adapters

S.A.E. 37° FLARE TO BANJO

[2 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2949 | -03 | 3/8 |
| FCM2938 | -04 | 3/8 |
| FCM2939 | -03 | 7/16 |
| FCM2940 | -04 | 7/16 |

S.A.E. BANJO BOLT

[1 per package]



| Steel Packaged Part Number | "A" Thread Size | Crushwasher ¹ Part Number |
|----------------------------|-----------------|--------------------------------------|
| FCM2921 | 3/8-24 | FCM3642 |
| FCM2922 | 7/16-20 | FCM3513 |

Metric Brake Adapters

S.A.E. 37° MALE FLARE TO METRIC FLARE

[2 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2941 | -03 | 10mm x 1 |
| FCM2942 | -03 | 10mm x 1.25 |
| FCM2966 | -03 | 10mm x 1.5 |
| FCM2943 | -04 | 10mm x 1 |
| FCM2944 | -04 | 10mm x 1.25 |
| FCM2967 | -04 | 10mm x 1.5 |

S.A.E. 37° MALE FLARE TO FEMALE METRIC FLARE

[2 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2945 | -03 | 10mm x 1 |
| FCM2946 | -04 | 10mm x 1 |

Metric Banjo Brake Adapters

S.A.E. 37° MALE FLARE TO METRIC BANJO

[2 per package]



| Steel Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size |
|----------------------------|----------------------------|-----------------------|
| FCM2947 | -03 | 10mm |
| FCM2948 | -04 | 10mm |

METRIC BANJO BOLT

[1 per package]



| Steel Packaged Part Number | "A" Thread Size | Crushwasher ¹ Part Number |
|----------------------------|-----------------|--------------------------------------|
| FCM2923 | 10mm x 1.25 | FCM3642 |
| FCM2968 | 10mm x 1.5 | FCM3642 |

¹Two crushwashers are required.






Bulk or Retail Packaged Parts

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FUEL SYSTEM COMPONENTS

Aluminum Banjo Fittings




BANJO FITTINGS – For Use with AQP® and Startlite® Racing Hose

| | Packaged Part Number | Hose Fitting Size | Application |
|---|----------------------|-------------------|---|
|  | FCM1066 | -06 | Banjo Fitting for Holley Single Feed 600-660 Series and all two barrel series with 9/16 -24 thread Replacement Crushwasher FCM3627 |
|  | FCM1067 | -06 | Banjo Fitting for Weber bowls with 12mm x 1.5 thread Replacement Crushwasher |
|  | FCM1070 | -06 | Banjo Fitting for Solex Carburetors with 12mm x 1.25 thread Replacement Crushwasher FCM3627 |
|  | FCM1069 | -06 | Banjo Fitting for multiple carb application Holley 600-660 Series with 9/16 - 24 thread Replacement Crushwasher FCM3627 |
|  | FCM1068 | -06 | Banjo Fitting for multiple carb application Weber 12mm x 1.5 thread Replacement Crushwasher FCM3627 |

Refer to Page 37 for Replacement Crushwashers and Replacement O-rings.


Aluminum Fuel Pump Adapters

FUEL PUMP ADAPTERS


| | Blue Anodized Packaged Part Number | Hose Fitting Size | Application |
|---|------------------------------------|-------------------|---|
|  | FCM2108 | -06 | Inverted Flare 5/8-18 thread |
|  | FCM2111 | -06 | Inverted Flare 1/2-20 thread |
|  | FCM2185 | -10 | 3/8 Male pipe to Flare for Holley Electric Fuel Pumps |



S.A.E. 37° MALE FLARE TO 42° INVERTED FLARE

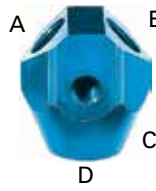
| | Packaged Part Number | "A" Hose Fitting Dash Size | "B" Brake Thread Size | Length INCHES |
|---|----------------------|----------------------------|-----------------------|---------------|
|  | FCM2181 | -03 | 1/2-20 | 1.07 |
| | FCM2182 | -04 | 1/2-20 | 1.14 |

MALE NICKEL-PLATED FUEL PUMP ADAPTER

| | Packaged Part Number | Hose Fitting Dash Size | Thread Size INCHES |
|---|----------------------|------------------------|--------------------|
|  | FCE2185 | -10 | 3/8 |

Aluminum Fuel Blocks

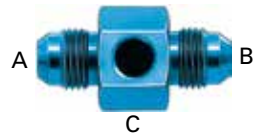
FUEL BLOCKS



| | Blue Anodized Packaged Part Number | Black Packaged Part Number | Nickel-Plated Packaged Part Number | "A" Pipe Size INCHES | "B" Pipe Size INCHES | "C" Pipe Size INCHES | "D" Pipe Size INCHES |
|---|------------------------------------|----------------------------|------------------------------------|----------------------|----------------------|----------------------|----------------------|
| B | FCM2178 | — | — | 1/4 | 1/4 | 1/8 | 3/8 |
| C | FCM2179 | FCM5179 | FCE2179 | 3/8 | 3/8 | 1/8 | 1/2 |

Aluminum In-Line Fuel Pressure Adapter

IN-LINE FUEL PRESSURE ADAPTER



| | Blue Anodized Packaged Part Number | Black Packaged Part Number | Nickel-Plated Packaged Part Number | "A" Dash Size | "B" Dash Size INCHES | "C" Pipe Size |
|---|------------------------------------|----------------------------|------------------------------------|---------------|----------------------|---------------|
| B | FCM2183 | FCM5183 | FCE2183 | -06 | -06 | 1/8 |
| C | FCM2184 | FCM5184 | FCE2184 | -08 | -08 | 1/8 |

Note: Ports A and B to carburetor; C = gauge port; and D = main feed.

Fuel Pump to Carburetor Hose Kits

GM PRODUCTS WITH QUAD THROUGH 1974

| Packaged Part Number | Description |
|----------------------|--|
| FCP0138 | 30" FBA0600 AQP® Racing Hose FBM1012 Aluminum Fitting FBM4032 Aluminum Fitting FBM2114 Adapter FBM2108 Adapter |



FORD PRODUCTS WITH HOLLEY CARBURETORS

| Packaged Part Number | Description |
|----------------------|---|
| FCP0140 | 30" FBA0600 AQP® Racing Hose FBM1012 Aluminum Fitting FBM4032 Aluminum Fitting FBM1066 Aluminum Fitting FBM2111 Adapter |



GM PRODUCTS WITH QUAD AFTER 1974

| Packaged Part Number | Description |
|----------------------|--|
| FCP0139 | 30" FBA0600 AQP® Racing Hose FBM1012 Aluminum Fitting FBM4032 Aluminum Fitting FBM2108 Adapters (2) |













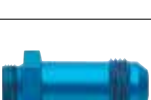

Bulk or Retail Packaged Parts

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FUEL SYSTEM COMPONENTS (CONT.)

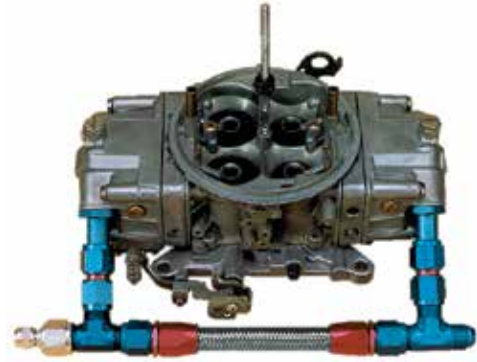
Aluminum Carburetor Adapters

CARBURETOR ADAPTERS

| | Blue Anodized Packaged Part Number | Black Anodized Packaged Part Number | Nickel-Plated Packaged Part Number | Hose Fitting Size | Application |
|---|---|--|---|-------------------------|--|
|  | FCM2113 | FCM5113 | FCE2113 | -06 | Holley Single Feed 600-660 Series, 4010/4011 Series and all two barrel series with 9/16-24 thread; fits Demon carburetors Replacement Crushwasher FCM3514 |
|  | FCM2114 | FCM5114 | FCE2114 | -06 | Holley Dual Feed 750 through Dominator 1350 Series and Quadrajet up to 1974 with 7/8-20 thread Replacement Crushwasher FCM3516 |
|  | FCM2961 | — | — | -08 | Holley Dual Feed 750 through Dominator 1350 Series and Quadrajet up to 1974 with 7/8-20 thread; available in steel only Replacement Crushwasher FCM3516 |
|  | FCM2110 | FCM5110 | FCE2110 | -08 | Holley Dual Feed 750 through Dominator 1350 Series and Quadrajet up to 1974 with 7/8-20 thread Replacement Crushwasher FCM3516 |
|  | FCM2193 | FCM5193 | — | -06 | Holley Dual Feed 750 through Dominator 1350 Series and Quadrajet up to 1974 with 7/8-20 thread Replacement Crushwasher FCM3516 |
|  | FCM2192 | FCM5192 | FCE2192 | -08 | Holley Dual Feed 750 through Dominator 1350 Series and Quadrajet up to 1974 with 7/8-20 thread Replacement Crushwasher FCM3516 |
|  | FCM2107 | FCM5107 | FCE2107 | -06 | Quadrajet 1975 and later 1-20 thread Replacement Crushwasher FCM3517 |
|  | FCM2112 | FCM5112 | FCE2112 | -06 | Carter AFB two and four barrel with 5/8-20 thread Replacement O-ring FCM3489 |
|  | FCM2116 | FCM5116 | FCE2116 | -06 | Weber Bowl Fitting 12mm x 1.5 thread |
|  | FCM2247 | FCM5247 | FCE2247 | -06 | Demon carburetors or applications with 9/16-24 threads and -06 female swivel Replacement Crushwater FBM3514 |
|  | FCM2248 | FCM5248 | FCR2248 | -08 | Demon carburetors or applications with 9/16-24 threads and -08 female swivel Replacement Crushwater FBM3514 |
|  | FCM2249 | — | — | -08 | Demon carburetors or applications with 9/16-24 threads and -08 male swivel Replacement Crushwater FBM3514 |

Dual Feed Carburetor Assemblies

Completely assembled—ready to install.



CARBURETOR KIT FOR USE WITH HOLLEY'S 4010/4011 CARBURETOR SERIES



| Packaged Part Number | Carburetor Application INCHES | Distance Between Bowl Fittings | Hose and Fitting Dash Size |
|----------------------|-------------------------------|--------------------------------|----------------------------|
| FCP0129 | Holley 4010/4011 | 8.25 | -06 |

DUAL FEED HOLLEY CARBURETOR ASSEMBLY



| Packaged Part Number | Carburetor Application | Distance Between Bowl Fittings INCHES | Hose and Fitting Dash Size |
|----------------------|------------------------|---------------------------------------|----------------------------|
| FCP0101 | 800 & 850 CFM Holley | 9.25 | -06 |
| FCP0102 | 600 & 650 CFM Holley | 8.62 | -06 |

1/2" DUAL FEED ASSEMBLY FOR HOLLEY CARBURETORS



| Packaged Part Number | Carburetor Application | Distance Between Bowl Fittings INCHES | Hose and Fitting Dash Size |
|----------------------|---------------------------|---------------------------------------|----------------------------|
| FCP0134 | 750, 800 & 850 CFM Holley | 9.25 | -08 |

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COUPLINGS

The Easy, Quick, and High-Tech Way to Change Your Oil —
Eaton's Aeroquip Performance Product's QUICK-DRAIN Oil Pan Coupling

Great for street cars, hot rods, boats, race-cars, anything that you need to drain fluid from in a clean and efficient way. Eliminates the potential of spillage — drains directly into a waste container. Makes changing your oil quick, clean, and fun!



Flow Rate (17°F 10W30 Oil)

* Approximately 0.24 GPM
** Approximately 0.68 GPM

QUICK-DRAIN OIL PAN COUPLINGS

| Packaged Part Number | Description | Thread Size | A Dimension INCHES | B Dimension INCHES | Hex Size INCHES | Min. Assembly Torque POUNDS/FOOT |
|----------------------|----------------------------------|-------------------------------------|--------------------|--------------------|-----------------|----------------------------------|
| FCM3126 [^] | Full Flow Male Half | 1/2-20-UNF-2A* | 1.52" | .96" | 1 1/16" | 20-24† |
| FCM3127 | Full Flow Male Half | M18 x 1.5 6g* | 1.52" | .96" | 1 1/4" | 20-40† |
| FCM3128 | Full Flow Male Half | M14 x 1.25 6g* | 1.52" | .96" | 1 1/16" | 20-24† |
| FCM3129 | Full Flow Male Half | 5/8-18-UNF-2A* | 1.52" | .96" | 1 1/16" | 20-40† |
| FCM3130 | Full Flow Male Half | 3/4-16-UNF-2A** | 1.52" | .96" | 1 1/4" | 30-50† |
| FCM3131 | Full Flow Male Half | 7/8-14-UNF-2A** | 1.52" | .96" | 1 1/4" | 30-60† |
| FCM3132 | Full Flow Male Half | M20 x 1.5 6g** | 1.52" | .96" | 1 1/4" | 30-60† |
| FCM3133 | Full Flow Male Half | M22 x 1.5 6g** | 1.52" | .96" | 1 1/4" | 30-60† |
| FCM3134 | Full Flow Male Half | 1 1/16-12-UN-2A** | 1.52" | .96" | 1 1/2" | 30-60† |
| FCM3135 | Full Flow Male Half | M12 x 1.5 6g* | 1.52" | .96" | 1 1/16" | 20-24† |
| FCM3136 | Full Flow Male Half | M14 x 1.5 6g* | 1.52" | .96" | 1 1/16" | 20-24† |
| FCM3137 | Full Flow Male Half | M12 x 1.75 6g* | 1.52" | .96" | 1 1/16" | 20-24† |
| FCM3117 | Full Flow Female Half | Fits All | 2.34 | 1.50 | — | — |
| FCM3118 | Replacement Cap | Fits All | 0.726 | 1.25 | — | — |
| FCM3119 | Replacement Gasket | Fits: 1/2-20, M12 x 1.5, M12 x 1.75 | — | — | — | — |
| FCM3120 | Replacement Gasket | Fits: M14 x 1.25, M14 x 1.50 | — | — | — | — |
| FCM3121 | Replacement Gasket | Fits 5/8 -18 | — | — | — | — |
| FCM3122 | Replacement Gasket | Fits: 3/4 -16, M18 x 1.50 | — | — | — | — |
| FCM3123 | Replacement Gasket | Fits: M20 x 1.50 | — | — | — | — |
| FCM3124 | Replacement Gasket | Fits: 7/8 -18, M22 x 1.50 | — | — | — | — |
| FCM3125 | Replacement Gasket | Fits: 1 1/16 -12 UN | — | — | — | — |
| FBV1000 | Blue SOCKETLESSTM Hose (dash 10) | | — | — | — | — |

[^]Male half comes complete with anodized aluminum cap and gasket

†Failure to meet minimum assembly torque could result in fluid leakage. Caution: Do not over torque.

Quick-Disconnect Brake and Clutch Coupling

This coupling allows rapid connection/disconnection of brake and clutch lines without fluid loss, air inclusion and the need to bleed the line. It also includes a safety clip on the lanyard to prevent accidental disconnection.

tion. Available with -03 or -04 S.A.E. 37° (JIC/AN) threads. The male half includes a jam nut for bulkhead mounting. Temperature range -40°F to +250°F. For use with non-petroleum brake fluids.



Connected



Disconnected

HYDRAULIC BRAKE AND CLUTCH COUPLING

| Steel Bulk Part Number | Hose Fitting Dash Size | Maximum Operating Pressure | Air Inclusion (C.C. Max.) PSI | Fluid Loss (C.C. Max.) | Length Connector | Total Weight INCHES | Seal Material INCHES |
|------------------------|------------------------|----------------------------|-------------------------------|------------------------|------------------|---------------------|----------------------|
| FBM1073 -03 | | 3000 | .02 | .10 | 4.10 | .34 | EPR |
| FBM1074 -04 | | 3000 | .02 | .10 | 4.25 | .36 | EPR |

Replacement Parts

| | |
|---------|--------------------------------|
| FBM1115 | -03 Male Half (Bulkhead Mount) |
| FBM1116 | -04 Male Half (Bulkhead Mount) |
| FBM1117 | -03 Female Half |
| FBM1118 | -04 Female Half |

**Quick-Disconnect Radiator/
Cooling Refill Coupling**



Female Half:

- Aluminum female quick-disconnect coupling is 50% lighter than standard version*
- Viton seals allows higher temperatures
- Stainless steel internal components significantly increase corrosion resistance

- Blue anodized 6061 aluminum body
- Easy connect/disconnect with positive locking
- For use with aluminum male coupling half (FBM1153)

Male Half:

- Replacing previous carbon steel components with stainless steel mate-

- rial significantly improve the corrosion resistance of the popular coupling
- Red anodized 6061 aluminum body
- 54% lighter than standard steel version
- Viton seals allows higher temperatures

RADIATOR/COOLING REFILL COUPLING – 1/2" THREAD

| Bulk Number | Description | Working Pressure PSI | Temperature DEGREES F | Weight OUNCES | Seal Material |
|-------------|---|----------------------|-----------------------|---------------|---------------|
| FBM1153 | Male Aluminum Lightweight Quick Disconnect Coupling | 250 | -15 to +300 | 1.73 | Viton |
| FBM3113 | Female Steel Quick Disconnect Coupling | 250 | -15 to +300 | 1.60 | Viton |
| FBM3114 | Female Aluminum Quick Disconnect Coupling | 250 | -15 to +300 | 3.97 | Viton |

Pressure Sensing Coupling

The primary feature of FCM3080 series Quick-Disconnect coupling is self-sealing valves in both halves, allowing connection and disconnection with minimal fluid loss and virtually no air inclusion. The FCM3080 series quick-disconnect coupling is ideal for gauge, diagnostic, wing and chassis adjustment applications.



ORDERING INFORMATION

| Packaged Part Number | Coupling Body Size INCHES | Description | Thread Size INCHES | Maximum Operating Pressure PSI | Air Inclusion (C.C. Max) | Fluid Loss (C.C. Max) | Length INCHES |
|----------------------|---------------------------|--------------------------------|--------------------|--------------------------------|--------------------------|-----------------------|---------------|
| FCM3081 | 1/4 | Female Coupling to Female Pipe | 1/8-27-NPTF | 7000 | .02 | .1 | 1.95 |
| FCM3082 | 1/4 | Female Coupling to Female Pipe | 1/4-18-NPTF | 7000 | .02 | .1 | 2.25 |
| FCM3083 | 1/4 | Male Coupling to Male Pipe | 1/8-27-NPTF | 7000 | .02 | .1 | 1.60 |
| FCM3084 | 1/4 | Male Coupling to Male Pipe | 1/4-18-NPTF | 7000 | .02 | .1 | 1.49 |
| FCM3085 | 1/4 | Male Coupling to Female Pipe | 1/8-27-NPTF | 7000 | .02 | .1 | 1.70 |
| FCM3086 | 1/4 | Male Coupling to Female Pipe | 1/4-18-NPTF | 7000 | .02 | .1 | 1.90 |
| FCM3087 | 1/4 | Male Coupling — Dust Cap | — | — | — | — | — |

Note: Not for use with brake fluid.

SPECIFICATIONS

Fuel Check Coupling

Ideal for use to meet NHRA fuel check requirements. Male half mounts in the fuel line.

Ideal for use with FCM2178, FCM2179, FCM2183 and FCM2184.



ORDERING INFORMATION AND SPECIFICATIONS

| Packaged Part Number | Description | Max. Thread Size INCHES | Operating Pressure PSI | Air Inclusion (C.C. Max.) | Fluid Loss (C.C. Max.) | Length INCHES |
|----------------------|--------------------------------|-------------------------|------------------------|---------------------------|------------------------|---------------|
| FCM3081 | Female Coupling to Female Pipe | 1/8-27 NPTF | 7000 | .02 | .1 | 1.95 |
| FCM3083 | Male Coupling to Male Pipe | 1/8-27 NPTF | 7000 | .02 | .1 | 1.60 |

Hydraulic Coupling

PUSH-PULL™ Self-Sealing Couplings are ideal for most hydraulic and fluid applications requiring a quick con-

nect/disconnect coupling. The coupling bodies are constructed of high quality plated steel. Coupling uses Buna-N seals.



ORDERING INFORMATION AND SPECIFICATIONS

| Steel Bulk Part Number | Pipe Thread Size | Max. Operating Pressure PSI | Air Inclusion (C.C. Max.) PSI | Fluid Loss (C.C. Max.) | Rated Flow GPM | Coupled Length INCHES | Vacuum Service INCHES/HG |
|------------------------|------------------|-----------------------------|-------------------------------|------------------------|----------------|-----------------------|--------------------------|
| FBM3011 | 1/4-18 | 5000 | .5 | .5 | 1 | 2.53 | 28 |
| FBM3012 | 3/8-18 | 4000 | 1.5 | 1.3 | 6 | 2.80 | 28 |
| FBM3013 | 1/2-14 | 4000 | 2.8 | 2.8 | 12 | 3.78 | 28 |
| FBM3015 | 3/4-14 | 4000 | 10.0 | 8.2 | 28 | 4.56 | 28 |
| FBM3016 | 1 1/2-11 | 4000 | 14.2 | 14.2 | 50 | 5.54 | 28 |

Note: Not recommended for brake system applications.

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.



ACCESSORIES

Aluminum Caps and Plugs for Fitting and Adapter Thread Protection

THREADED ALUMINUM DUST CAPS

| Part Number | Fitting and Adapter Dash Size | Thread | Dimensions INCHES | | Pkg. Of |
|-------------|-------------------------------|-----------|-------------------|-----|---------|
| | | | A | B | |
| FBM3647 | -03 | 3/8-24 | .43 | .36 | 20 |
| FBM3648 | -04 | 7/16-20 | .54 | .46 | 20 |
| FBM3649 | -06 | 9/16-18 | .54 | .46 | 20 |
| FBM3650 | -08 | 3/4-16 | .64 | .55 | 20 |
| FBM3651 | -10 | 7/8-14 | .74 | .65 | 12 |
| FBM3652 | -12 | 1 1/16-12 | .85 | .76 | 10 |
| FBM3653 | -16 | 1 5/16-12 | .86 | .78 | 10 |



THREADED ALUMINUM DUST PLUGS

| Part Number | Fitting and Adapter Dash Size | Thread | Dimensions INCHES | | | Pkg. Of |
|-------------|-------------------------------|-----------|-------------------|------|------|---------|
| | | | A | B | C | |
| FBM3654 | -03 | 3/8-24 | .37 | .57 | .61 | 20 |
| FBM3655 | -04 | 7/16-20 | .46 | .61 | .71 | 20 |
| FBM3656 | -06 | 9/16-18 | .50 | .76 | .77 | 20 |
| FBM3657 | -08 | 3/4-16 | .61 | .94 | .90 | 20 |
| FBM3658 | -10 | 7/8-14 | .70 | 1.11 | .95 | 12 |
| FBM3659 | -12 | 1 1/16-12 | .65 | 1.38 | .99 | 10 |
| FBM3660 | -16 | 1 5/16-12 | .71 | 1.53 | 1.08 | 10 |



Support Clamps

Vinyl-coated steel support clamps provide security for supporting hose in long runs and critical bends. See hose specifications shown in

this catalog for the correct hose clamp to match each hose size. For other hose types, match the clamp I.D. and hose O.D. as close as possible.

SPECIFICATIONS

| Packaged Part Number | I.D. INCHES | Number Per Package |
|----------------------|-------------|--------------------|
| FCM3481 | .25 | 5 |
| FCM3482 | .44 | 5 |
| FCM3483 | .50 | 5 |
| FCM3484 | .56 | 5 |
| FCM3485 | .63 | 5 |
| FCM3486 | .75 | 5 |
| FCM3487 | .81 | 5 |
| FCM3488 | .94 | 5 |
| FCM3534 | 1.00 | 2 |
| FCM3535 | 1.06 | 2 |
| FCM3536 | 1.13 | 2 |
| FCM3537 | 1.25 | 2 |
| FCM3538 | 1.50 | 2 |



624 Firesleeve Hose Cover

Firesleeve hose flame shield can prevent or delay hose lines from burning. See hose specifications shown in this catalog for the correct

firesleeve to match each hose size. For other hose styles, select firesleeve with an I.D. slightly larger than the hose O.D.

SPECIFICATIONS

| Bulk *Part Number* | I.D. INCHES |
|--------------------|-------------|
| FBS0700 | .44 |
| FBS0800 | .50 |
| FBS0900 | .56 |
| FBS1000 | .62 |
| FBS1100 | .69 |
| FBS1200 | .75 |
| FBS1300 | .81 |
| FBS1400 | .88 |
| FBS1600 | 1.00 |
| FBS1800 | 1.12 |
| FBS2000 | 1.25 |
| FBS2200 | 1.38 |
| FBS2400 | 1.50 |



Replacement Aluminum Crushwashers

For use with Banjo Fittings and Carburetor Adapters

SPECIFICATIONS

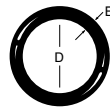
| [5 per package] | Packaged Part Number | Dash Size |
|-----------------|----------------------|-----------|
| | FCM3642 | -03 |
| | FCM3513 | -04 |
| | FCM3514 | -06 |
| | FCM3515 | -08 |
| | FCM3627 | -09 |
| | FCM3516 | -10 |
| | FCM3517 | -12 |



O-rings

SPECIFICATIONS

| 10-Piece Package Nitrile ¹ Part No. | 5-Piece Package EPR ² Part No. | Dash Size | D INCHES | E INCHES |
|--|---|-----------|----------|----------|
| FCM3472 | FCM3462 | -03 | .301 | .064 |
| FCM3473 | FCM3463 | -04 | .351 | .072 |
| FCM3474 | FCM3464 | -06 | .468 | .078 |
| FCM3475 | FCM3465 | -08 | .644 | .087 |
| FCM3476 | FCM3466 | -10 | .755 | .097 |
| FCM3477 | FCM3467 | -12 | .924 | .116 |
| FCM3497 | FCM3468 | -16 | 1.171 | .116 |
| FCM3498 | FCM3469 | -20 | 1.475 | .118 |
| FCM3499 | FCM3470 | -24 | 1.720 | .118 |



*Order by the foot. Packaged firesleeve is available in various lengths. Contact customer service for part numbers and prices.

¹Nitrile O-rings for use with gasoline fuels.

²EPR (Ethylene Propylene Rubber) O-rings to be used with Nitromethane and alcohol fuels.

PRO CLAMP™ Aluminum Hose Connectors



PRO CLAMP™ connectors are made of red anodized aluminum to give your band clamp connections a professional look. The PRO CLAMP™ connector can be

used on any rubber or stainless steel braid hose. PRO CLAMP™ connectors should not be used on brake lines, air conditioning, power steering or other high pressure

lines. PRO CLAMP™ connectors come complete with a quality band clamp.

SPECIFICATIONS AND ORDERING INFORMATION

| Hose Dash Size | Packaged Part Number | Hose I.D. INCHES | Hose O.D. INCHES |
|----------------|----------------------|------------------|------------------|
| -04 | FCM1001 | .22 | .44 |
| -06 | FCM1002 | .34 | .55 |
| -08 | FCM1003 | .44 | .65 |
| -10 | FCM1004 | .56 | .80 |
| -12 | FCM1005 | .69 | .94 |

Please see Page 46 for assembly instructions.

SPECIFICATIONS AND ORDERING INFORMATION

| Hose Dash Size | Packaged Part Number | Hose I.D. INCHES | Hose O.D. INCHES |
|----------------|----------------------|------------------|------------------|
| -16 | FCM1006 | .88 | 1.15 |
| -20 | FCM1007 | 1.13 | 1.41 |
| -24 | FCM1008 | 1.34 | 1.70 |
| -28 | FCM1010 | 1.62 | 1.88 |
| -32 | FCM1009 | 1.75 | 2.09 |

Stainless Steel Overbraid



Stainless Steel Overbraid is used to dress up existing rubber hoses. Stainless Overbraid simply slips over current radiator hoses and can be

clamped with the Aeroquip Performance Products PRO CLAMP™ connectors for a finished hose assembly look. Stainless Overbraid provides

no additional performance for the hose. Stainless Overbraid does provide added abrasion resistance and good looks.

SPECIFICATIONS

| Nominal I.D. INCHES | Hose O.D. Range INCHES | Overbraid I.D. INCHES |
|---------------------|------------------------|-----------------------|
| 3/4 | 1/2 to 1 | 3/4 |
| 1 1/2 | 1 1/2 to 2 1/4 | 1 1/2 |

ORDERING INFORMATION

| Bulk Part Number | Packaged Length Part Number | | | | |
|------------------|-----------------------------|---------|---------|---------|---------|
| | 3 Feet | 6 Feet | 10 Feet | 15 Feet | 20 Feet |
| FBR1200 | FCR1203 | FCR1206 | FCR1210 | FCR1215 | FCR1220 |
| FBR2400 | FCR2403 | FCR2406 | FCR2410 | FCR2415 | FCR2420 |

Please see Page 46 for assembly instructions.

Stainless Steel Internal Support Coils

Extra support for extreme vacuum applications.

SPECIFICATIONS AND ORDERING INFORMATION

| Hose Dash Size | Bulk Part Number | Description | Length Feet |
|----------------|------------------|-------------|-------------|
| -08 | FBM3412 | .51" OD | 20 |
| -12 | FBM3413 | .73" OD | 20 |
| -16 | FBM3414 | .94" OD | 20 |



Vacuum: One of the most severe applications of a hose is in vacuum service. Modern dry sump oil systems are pulling more vacuum than ever. It is extremely important that you match the hose you are using with the vacuum rating of your application. Eaton offers racing hoses with vacuum rating of up to 28 in./HG (Check hose specifications for vacuum rating). Great care should be taken in the handling and routing of hoses used in vacuum service. If a hose is installed beyond the minimum bend radius the vacuum rating will be reduced. Also, if a hose has been kinked or damaged and then put in vacuum service, the area that was kinked or damaged will be a weak spot and the vacuum rating of the hose will be reduced. For severe vacuum applications, an internal support coil may be needed. Contact Eaton Technical Support for additional information.

Bulk or Retail Packaged Parts

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ACCESSORIES (CONT.)

Toggle Switches

Switches with the widest selection of features and design flexibility

These environmentally sealed toggle switches offer the widest selection of features and the design flexibility to meet a variety of performance applications. Our product is designed to meet Aerospace specifications, delivering the quality and level of consistent execution that is above all others.

All Eaton's Aeroquip® Toggle switches are completely sealed to moisture, dust, grease and a variety of other contaminants that can be harmful to the inner electronics. Don't take a chance with your vehicle's equipment, go with the name you trust, use Eaton's Aeroquip Performance Products.

Features and Benefits

- Completely sealed against dust, moisture and other contaminants
- One, two and three pole circuitry
- One hole mounting for easy installation
- Multi-circuits offered
- Two and three position with maintained and momentary action
- Molded-in terminal inserts
- Molded-in terminal numbers



Applications

- Ignition/Start
- Accessory Controls: lights, pump, fan, etc.

Specifications

- Water-tight seal per MIL-STD-108E and designed to meet IP68
- Thermoset molding materials meet flame retardant requirements
- Temperature range: -500°F to +1500°F (-460°C to +660°C)
- Life: 20,000 operations at rated load
- Bushing: 15/32" -32 thread

CURRENT RATINGS

| No of Poles | Catalog No. | Type of Operation | 28VDC Lamp Load | Resistive Load | Inductive Load | 115VAC 60 or 400Hz Lamp Load | Resistive Load | Inductive Load |
|-------------|-------------|-------------------|-----------------|----------------|----------------|------------------------------|----------------|----------------|
| 1 | 8510 | Maintained | 5 | 20 | 15 | 3 | 15 | 10 |
| | | Momentary | 4 | 15 | 10 | 2 | 15 | 7 |
| 2 | 8511 | Maintained | 7 | 20 | 15 | 4 | 15 | 15 |
| | | Momentary | 5 | 18 | 10 | 2 | 11 | 8 |
| 4 | 8512 | Maintained | 5 | 20 | 12 | 4 | 15 | 15 |
| | | Momentary | 4 | 18 | 10 | 2 | 11 | 8 |

| Up Position | Center Position | Down Position Position (Keyway) | Catalog Number | Catalog Number | Catalog Number |
|-------------|-----------------|---------------------------------|----------------|----------------|----------------|
| ON | OFF | ON | 8510K1 | 8511K1 | 8512K1 |
| ON | NONE | OFF | K9 | K9 | K9 |
| ON | NONE | ON | K4 | K4 | K4 |
| ON | OFF | NONE | K6 | K6 | K6 |
| ON | OFF* | NONE | K8 | K8 | K8 |
| ON | NONE | ON* | 8510K5 | 8511K5 | 8512K5 |
| ON* | OFF | ON* | K2 | K2 | K2 |
| NONE | OFF | ON* | K7 | K7 | K7 |
| ON | NONE | OFF | K10 | K10 | K10 |
| OFF | NONE | ON* | K11 | K11 | K11 |
| ON | OFF | ON* | 8510K3 | 8511K3 | 8512K3 |
| ON* | ON | NONE | K12 | K12 | K12 |
| ON | ON | NONE | K13 | K13 | K13 |
| ON | ON | ON | — | 8511K14 | 8512K16 |
| ON | ON | ON* | — | K15 | K16 |
| ON* | ON | ON* | — | K16 | K17 |
| ON | ON | ON | — | 8511K17 | — |
| ON | ON | ON* | — | K18 | — |
| ON* | ON | ON* | — | K19 | — |

Catalog number 8497KIC switch guard prevents accidental operation of switches in safety-critical applications.

*Momentary contact

Port and Identification Kit

FCM3644

To help mechanics, engineers and salespeople quickly and accurately identify ports and connectors used in racing plumbing, Performance Products is offering the FCM3644 Port and Identification Kit. Measuring and identifying both USA and foreign threads is made easy. The kit consists of five components:

1. A unique caliper, featuring four angle gauges that are built into the ID/OD measuring fingers. Angles include 37°, 45°, 12° (24° included) and 30° (60° included).
2. Bulletin JA 110, How to Identify Fluid Ports and Connectors. This bulletin provides port and connector information with inch dimensions given in both fractions and decimals. Metric dimensions are given in both millimeters and inch decimals.
3. A handy, compact thread gauge, featuring 14 fold out blades with the following pitches per inch: 11, 11 1/2, 12, 14, 16, 18, 19, 20, 24, 27, and 28. Metric 1.0, 1.5 and 2.0 thread pitches are also included.
4. A flexible Fresnel magnifying lens (3x) for hard-to-read part numbers.
5. A vinyl pocket size carrying case.



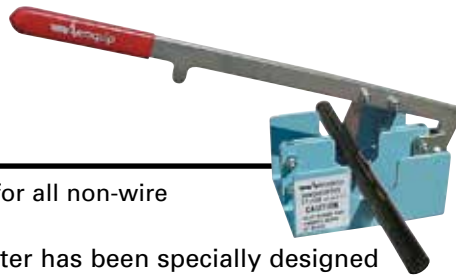
Hand-Held Hose Cutter

FCM3662

Cut-Off Tool

FT1258

Bench mounted cut-off tool for all non-wire reinforced hose.



Eaton's hand-held hose cutter has been specially designed for cutting all non-wire reinforced hose, such as Eaton's Aeroquip StartLite® and SOCKETLESS™ hose styles. The cutter's compact size makes it ideal for working in confined areas. It provides fast, accurate easy cuts—every time.

- Features a replaceable stainless steel blade that closes into its own handle for safe carrying and handling
- Includes tough, durable nylon handles
- Offered with an optional tool pouch
- Saves time and effort due to its small size and lightweight design



SPECIFICATIONS AND ORDERING INFORMATION

| Part Number | Description |
|-------------|-----------------------|
| FCM3662 | Hand-Held Hose Cutter |
| FCM3663 | Replacement Blade |
| FCM3664 | Tool Pouch |



The rotating/rocking technique produces fast easy cuts.

TechTip

Keep Your Fittings Looking New

Aluminum wrenches, FCM3410, and vise jaw inserts, FCM3661, are great for protecting the anodized coloring on your reusable fittings. Check out the assembly equipment section for more details..

Bulk or Retail Packaged Parts

FB-prefixed part numbers indicate bulk-packaged products. FC-prefixed part numbers indicate carded/clam shelled (retail-packaged) products. Most products in this catalog can be ordered in either package style by changing the prefix accordingly.

ASSEMBLY EQUIPMENT (CONT.)

SOCKETLESS™ Fitting Assembly Tool

FBM3632

The FBM3632 hand-held assembly tool is especially designed for quick and easy assembly of FBV SOCKETLESS Hose in sizes -04, -06, and -08. The hose is held in position by a manually operated clamp, and the fitting is positioned on the mandrel assembly lever. The SOCKETLESS fitting is pushed into the hose by compressing the mandrel assembly lever.



Teflon* Hose Tool

FBM3646

The FCM3646 hand-held tool is designed to seat Teflon* tube against a sleeve. Use with smooth bore Teflon* hose in sizes -03, -04, -05, -06, -08, -10 and -12.



Aluminum Wrenches

FCM3410

Sturdy, anodized aluminum wrenches are designed to fit the hexes and minimize marking of Aeroquip Performance Products anodized aluminum fittings for AQP® Racing Hose in sizes 6 through -20. Color coded by size.



Hose Assembly Lube

FBM3553

Eaton's Aeroquip Performance Products Hose Assembly Lube is a specially compounded lubricant superior to any other lubricant used in hose assembly work. Available in pint containers. Use for either hand or machine assembly.

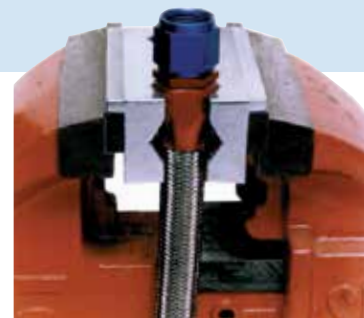


Vise-Jaw Inserts for Anodized Fitting Protection

FCM3661

FCM3661 vise-jaw inserts are a must for race teams, engine builders and street rodders. Keep your good-looking Aeroquip Performance Products fittings looking good even after assembly. FCM3661 vise-jaw inserts firmly hold the hex of the fitting during assembly, without marring the anodized finish. Made of aluminum with angled pockets, FCM3661 vise-jaw inserts can be used with any size fitting from -03 to -32.

A horizontal pocket the length of FCM3661 vise-jaws is ideal for securely holding steel braided hose in place, making straight cuts fast and simple.



FCM3661 vise-jaw inserts also feature magnetic backs, allowing quick set-ups and easy transfer between vises.

*Teflon is a registered trademark of Dupont and under license by Eaton.

ET1000 — Portable Crimp Machine

Relaunched with a sleek new housing, the new high performance crimper will compliment your high performance shop, race trailer, or garage.

This crimper machine has been approved to crimp:

- Eaton Aeroquip AQP® Racing and StartLite® hose in sizes -4 through -16, straight through 120° swivel. The StartLite hose is also qualified in -20 swivel.
- Aeroquip Racing Hose, Teflon* in -3, -4 and -6 sizes, straight through 90°



The performance version of the ET1000 builds on the success of Eaton portable crimp machines by using a 2-piece split half collet assembly in lieu of traditional one-piece die cages. The correct hose assembly crimp diameter is obtained by the use of a spacer ring that controls the stroke length of the cylinder during the crimping operation.

This ET1000 may be ordered separately or with one of one of two different power sources: a two-stage hand pump or the Air-Hydraulic pump. The crimper housing has been expanded to allow for a direct mount on the pump to the housing.

SPECIFICATIONS

| | |
|------------|----------------------------------|
| Dimensions | 22" high, 16" wide, 14" in depth |
| Weight | 80 lbs. (without pump) |

ET1000 CRIMP MACHINE PART NUMBERS

| | |
|----------------|--|
| ET1000-PHP-002 | No pump, no tooling (basic machine only) |
|----------------|--|

ET1000 CRIMP MACHINE PACKAGE PART NUMBERS

These machine packaged part numbers offer a variety of pumps with the same tooling package including all collets and spacer rings to crimp:

- AQP Racing & StartLite Hoses (sizes -4 thru -16), straight through 120° swivel fittings.
- AQP StartLite has been qualified up to -20, straight through 120° swivel fittings.
- Aeroquip Racing Hose, Teflon* (sizes -3, -4 and -6), straight fitting.

| | |
|----------------|--|
| ET1000-PHP-012 | ET1000-PHP-002 with hand pump. Includes collet and spacer ring tooling packages |
| ET1000-PHP-013 | ET1000-PAP-003 with air/hydraulic pump. Includes collet and spacer ring tooling packages |

Features

- Pusher slides out of position.
- Red power coated housing protects user from moving machinery and provides a sleek, aerodynamic design
- Crimper body has a clear zinc finish to protect against corrosion.
- Utilizes 2-piece collet assemblies.
- Spacer rings control the crimp diameter.
- Qualified to crimp Aeroquip's top selling hoses: AQP Stainless Braid, StartLite, and Teflon hoses with Aeroquip's qualified aluminum crimp fittings.

Benefits

- Sliding pusher allows for easier fitting insertion into the machine.
- Simple positive-stop crimp diameter control system for consistent crimping time after time with no operator adjustments required.
- Easily transported between job sites.
- Versatile power source options. Electricity is required only when using an electric style pump.

COLLET PART NUMBERS

| | |
|--------------------------------|-----------------|
| T-400-2C | T-400-5C |
| T-400-3C | T-400-6C |
| T-400-120C | |
| ET1000DC-M065S | ET1000DC-M195S |
| ET1000DC-M150S | ET1000DC-M1230S |
| ET1000AR-001(Die Ring Adapter) | |

SPACER RING PART NUMBERS

| | |
|----------------|----------------|
| ET1010SR-M305A | ET1010SR-M205A |
| ET1010SR-M100A | ET1010SR-M055A |
| ET1010SR-M115D | ET1010SR-M240D |
| ET1010SR-M395D | |

ACCESSORY PART NUMBERS

| | |
|-----------|---|
| 140-06701 | 1.5 oz. Tube, high efficiency PTFE grease |
|-----------|---|

| Hose Style | Hose End | Collet Assembly | Spacer Ring P/N | Flat Side (Up/Down) | Crimp Diameter Range (in) | | Die Ring Adapter Required |
|------------|-------------------|-----------------|-----------------|---------------------|---------------------------|-------|---------------------------|
| FBA0400 | Lightweight Crimp | T-400-2C | ET1010SR-M305A | FSU | 0.488 | 0.498 | Yes |
| FBU0400 | Lightweight Crimp | T-400-2C | ET1010SR-M305A | FSU | 0.488 | 0.498 | Yes |
| FBA0600 | Lightweight Crimp | ET1000DC-M150S | ET1010SR-M100S | FSU | 0.609 | 0.619 | Yes |
| FBU0600 | Lightweight Crimp | ET1000DC-M150S | ET1010SR-M100S | FSU | 0.609 | 0.619 | Yes |
| FBA0800 | Lightweight Crimp | T-400-3C | ET1010SR-M055A | FSU | 0.715 | 0.725 | Yes |
| FBU0800 | Lightweight Crimp | T-400-3C | ET1010SR-M055A | FSU | 0.715 | 0.725 | Yes |
| FBA1000 | Lightweight Crimp | ET1000DC-M195S | ET1010SR-M395D | FSU | 0.891 | 0.901 | Yes |
| FBU1000 | Lightweight Crimp | ET1000DC-M195S | ET1010SR-M395D | FSU | 0.891 | 0.901 | Yes |
| FBA1200 | Lightweight Crimp | ET1000DC-M230S | ET1010SR-M395D | FSU | 1.015 | 1.025 | Yes |
| FBU1200 | Lightweight Crimp | ET1000DC-M230S | ET1010SR-M395D | FSU | 1.015 | 1.025 | Yes |
| FBA1600 | Lightweight Crimp | T-400-5C | ET1010SR-M240D | FSU | 1.200 | 1.210 | Yes |
| FBU1600 | Lightweight Crimp | T-400-5C | ET1010SR-M240D | FSU | 1.200 | 1.210 | Yes |
| FBU2000 | Lightweight Crimp | T-400-6C | ET1010SR-M115D | FSU | 1.460 | 1.470 | Yes |
| FBC0300 | Steel Crimp | ET1000DC-M065S | ET1010SR-M205A | FSU | 0.272 | 0.278 | Yes |
| FBC0400 | Steel Crimp | ET1000DC-M065S | ET1010SR-M115D | FSU | 0.334 | 0.340 | Yes |
| FBC0600 | Steel Crimp | T-400-120C | ET1010SR-M055A | FSU | 0.464 | 0.470 | Yes |

*Teflon is a registered trademark of DuPont and under license by Eaton.

ASSEMBLY EQUIPMENT (CONT.)

ProCrimp® 1380

The ProCrimp FT1380 is the industry's easiest and fastest means of assembling Eaton's Aeroquip Performance Products hose and fittings. The ProCrimp 1380 is electronically controlled to give fast, accurate crimps each and every time you need a hose assembly.

FT1380 DIE CRIMP ORDERING INFORMATION

| | |
|-----------------|--|
| FT1380-1-1 | Includes machine, five die cages (-4, -16), instruction video. |
| FT1380-115 | Crimp machine only. |
| FT1380-275-M370 | -20 crimp die cage |

Features

- Fast, quite easy to use
- Crimp -4 through -20, 4-spiral hose
- Crimps Eaton's Aeroquip Performance Products StartLite® and AQP® Racing Hose, and Racing Hose, Teflon*
- Pre-set crimp settings
- Programmable electronic controls
- Easy to calibrate
- Upright design
- Standard work light
- Simple die cage insertion
- Full flow hydraulics with spring return
- "Soft" retract position
- ENERPAC® hydraulics

Benefits

- Minimizes training and mistakes
- Crimp popular hose styles
- Fast setup time
- Simplified crimping
- Minimal maintenance
- Minimal effort calibrating machine
- Easy hose insertion
- Easy to see work
- Fast cycle time
- Minimum cycle distance and time
- Reliable/serviceable/standardized

Eaton ProCrimp® 1380 sets a new standard for simplified, fast crimping of hose assemblies. This machine can be set up in any shop, garage or work area to crimp 1 and 2 wire braid, 4 spiral, and many other hose styles offered by Eaton.



The ProCrimp® 1380 is totally compatible with Eaton's MatchMate® Plus hose assembly program. Matching and mating hose to fittings and to the tooling in the ProCrimp® 1380 make hose assembly simpler than ever. Decals have been prepared to fit the ProCrimp® 1380 with all of the MatchMate Plus hose styles, including MatchMate BLUE®.

The standard work light on the ProCrimp® 1380 illuminates the top of the fittings being crimped in this upright crimp machine. The work area is highly visible due to the upright design. Viewing of the fitting during the crimping operation is easier than ever. And the ever popular FT1330XL "Oxley Locator" can be added to the die cages for use with MatchMate Plus TTC fittings for even easier location.

The ProCrimp® 1380 uses an ENERPAC® 10,000 psi hydraulic pump and cylinder which provide quiet, efficient crimping. When the power unit is on, the electronic display and work light are lighted to indicate setup for crimping. The pump doesn't actually begin to operate until the crimp toggle switch is activated, saving energy and motor wear.

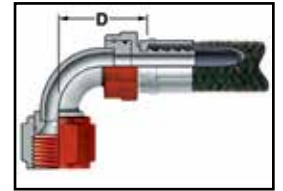
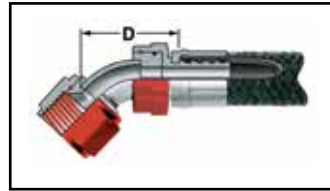
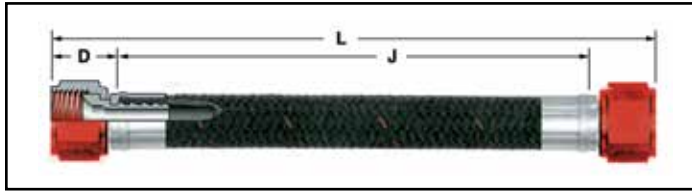
*Teflon is a registered trademark of DuPont and under license by Eaton.



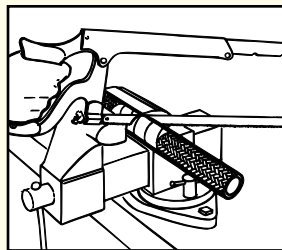
How To Determine Hose Assembly Lengths

To determine the "J" length (cut length of hose) from "L" length (overall length), deduct "D" dimensions of both end fittings. Consult fitting information tables for "D" dimensions.

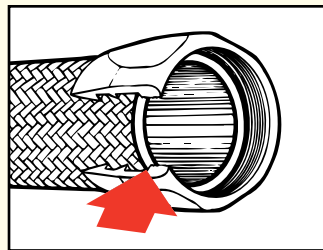
L = Overall Length
J = Cut Length of Hose
D = Fitting Length



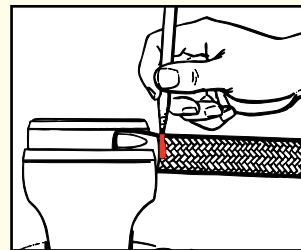
AQP Racing Hose (with Reusable Fittings)



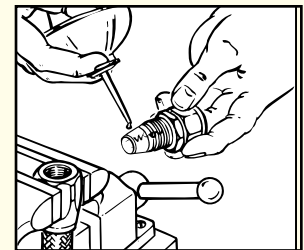
Step 1. Cut hose square to length with fine-tooth hack saw or cut-off wheel. To minimize wire braid flare out, wrap hose with masking tape and cut through tape. Remove tape before next step.



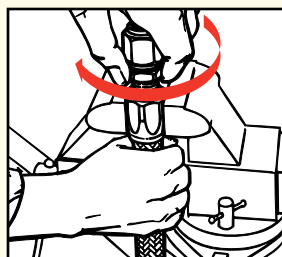
Step 2. Insert hose in socket with twisting, pushing motion until hose is in line with back of socket threads.



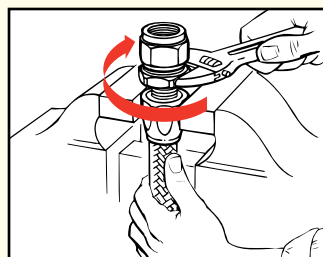
Step 3. Important—Mark position around hose at rear of socket with a grease pencil, paint or tape.



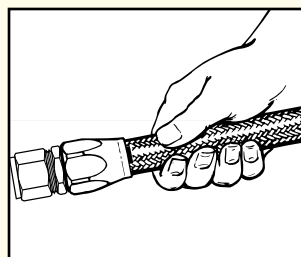
Step 4. Lubricate inside of hose and nipple threads liberally using S.A.E. 30 lubricating oil or Aeroquip FBM3553 Hose Assembly Lube.



Step 5. Carefully insert nipple and engage nipple and socket threads while holding hose in position with other hand. Make sure hose does not push out of socket by observing mark made in Step 3.



Step 6. Complete assembly using wrench while continuing to hold hose in position. Maximum allowable gap is .031 inches. Your thumbnail is a convenient measuring device.



Step 7. Important—Check hose for pushout by observing hose position mark. Pushout should not be evident. **CLEAN, PROOF TEST TO TWICE OPERATING PRESSURE AND INSPECT ALL ASSEMBLIES.** Disassemble in reverse order.



Eaton's Aeroquip Performance Products Hose Assembly Lube is a specially compounded lubricant superior to any other lubricant used in hose assembly work. Available in pint containers. Use for either hand or machine assembly.

ASSEMBLY INSTRUCTIONS (CONT.)

StartLite® Racing Hose and AQP® Racing Hose (with Lightweight Crimp Fittings)

ProCrimp® 1380 Crimp Machine

The ProCrimp 1380 machine is designed to assemble StartLite and AQP® Racing Hose assemblies. It is electronically controlled to give fast, accurate crimps and incorporates programmable crimp settings and a simple die cage insertion to reduce setup time and errors.

ProCrimp® 1380 Target Settings

The target settings for Eaton's Aeroquip Performance Products crimp machines are provided to aid in establishing actual settings. While the settings on this chart will give crimp diameters close to, or at, specified value, the machine operator must check to verify the actual diameter. Before using these target settings, the crimp machine must be within proper calibration. If needed, consult your Eaton Aeroquip Performance Products equipment manual for calibration procedures.

PROCRIMP 1380 CRIMP MACHINE TARGET SETTINGS

| Hose Dash Size | Die Cage | Crimp Diameter (±.005 Inches) INCHES | Target Setting |
|----------------|----------|--------------------------------------|----------------|
| -04 | -M120 | .493 | 088 |
| -06 | -M150 | .614 | 078 |
| -08 | -M150 | .719 | 187 |
| -10 | -M210 | .896 | 142 |
| -12 | -M240 | 1.020 | 116 |
| -16 | -M280 | 1.205 | 155 |
| -20 | -M370 | 1.465 | 040 |

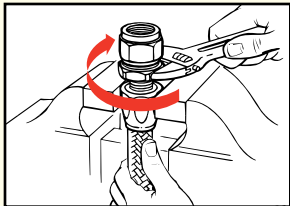
Note: It is recommended that all hose assemblies be proof pressure checked at twice the operating pressure using a proof test stand such as the Eaton's Aeroquip Performance Products FT1058 stand.

To ensure a proper crimp, the StartLite and AQP Racing Hose (FBU & FBA) must have a clean cut with no frayed ends and must be fully inserted into the fitting. Position your scribe line level with the top of the die. Follow target setting for the size of hose to be crimped. Check your crimp diameter with a dial caliper.

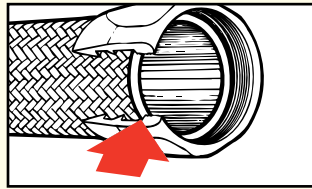
StartLite® Racing Hose (with Reusable Fittings)



Step 1. Cut hose square to length with Aeroquip Performance Products Cut Off Tool (FT1258) or similar cutting device.



Step 5. Complete assembly using wrench while continuing to hold hose in position. Maximum allowable gap is .031 inches. Your thumbnail is a convenient measuring device. Do not overtighten to a point where there is no gap.



Step 2. Insert hose in socket with twisting, pushing motion until hose is in line with back of socket threads.

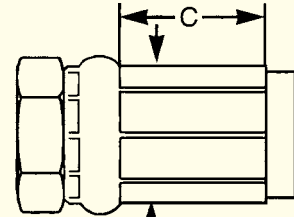
Notes:

- Greater resistance can be expected as compared to Aeroquip Performance Products AQP® Racing Hose.
- To disassemble, reverse steps.
- It is recommended that all hose assemblies be proof pressure checked at twice the operating pressure using a proof test stand such as the Aeroquip Performance Products FT1058 stand.



Crimp Diameter Measurement Locations

Diameter measurements are to be taken at the center (top to bottom, side to side) of the specified fitting selection.

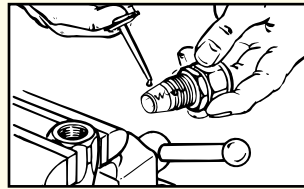


(measure crimp diameter here)

Determining Crimp Diameter

The crimp diameter is the average of the four diameter measurements around the fitting. These measurements are to be taken at the same relative locations indicated in the illustration above right.

$$\frac{\text{Measurement 1} + \text{Measurement 2} + \text{Measurement 3} + \text{Measurement 4}}{4} = \text{Crimp Diameter}$$

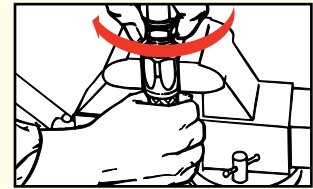


Step 3. Lubricate inside of hose and nipple threads liberally using S.A.E. 30 lubricating oil or Aeroquip Performance Products FBM3553 Hose Assembly Lube. and socket threads while holding hose in position with other hand. Make sure hose does not push out of socket.

FBM3553 Hose Assembly Lube

Aeroquip Performance Products Hose Assembly Lube is a specially compounded lubricant superior to any other lubricant used in hose assembly work. Available in pint containers.

Use for either hand or machine assembly.

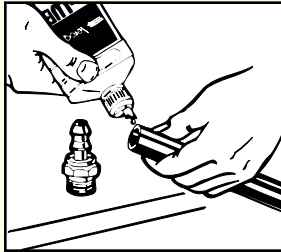


Step 4. Carefully insert nipple and engage nipple and socket threads while holding hose in position with other hand. Make sure hose does not push out of socket.

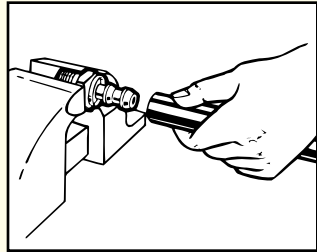
StartLite® Hose Routing Procedure

In most vibration applications, it may be necessary to restrain, protect, or guide the hose to protect it from damage caused by unnecessary flexing or contact with other mechanical components. Care must be taken to ensure such restraints do not introduce additional stress or wear points. StartLite® hose, when used with reusable fittings in a high vibration applications, should be supported approximately every 12 to 14 inches.

SOCKETLESS™ Hose¹

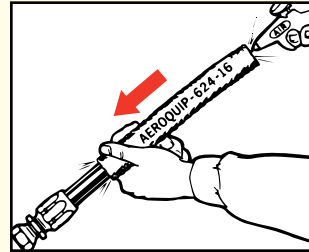


Step 1. Cut hose to required length with a sharp knife. Oil inside of hose and outside of nipple liberally.



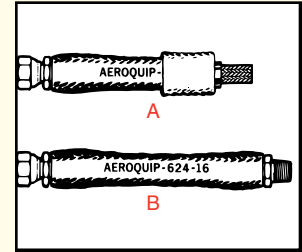
Step 2. Push hose on fitting until hose end bottoms underneath protective cap as shown. Clean, proof test to twice operating pressure and inspect all assemblies.

Firesleeve



Step 1. Follow the appropriate hose assembly instructions through the assembly of one end fitting. Cut firesleeve to same length as hose. Start firesleeve over cut end of hose.

Note: If applying sleeve over Teflon* or stripped cover assemblies, wrap exposed wire with tape. Grasp sleeve and slip over the hose assembly as illustrated.



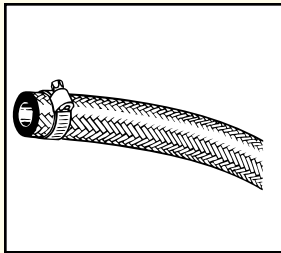
Step 2. Skin sleeve back from cut end of hose enough to allow assembly of second end fitting. (2A)

Then center sleeve so that it completely covers both sockets. (2B)

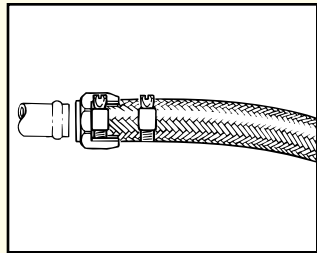
Step 3. Position nylon wire tie or band clamp over sleeve on each end of the hose assembly and draw tight.

¹Never use a hose clamp with FBV SOCKETLESS™

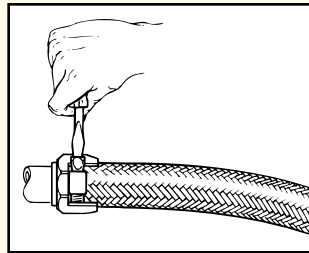
Pro Clamp™



Step 1. Slide clamp onto hose.

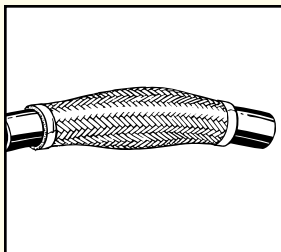


Step 2. Push cap (socket) onto hose until it bottoms. Then slide clamp under cap.

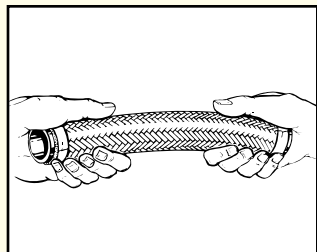


Step 3. Push assembly onto beaded tube. Position clamp for appearance. Tighten with a screwdriver.

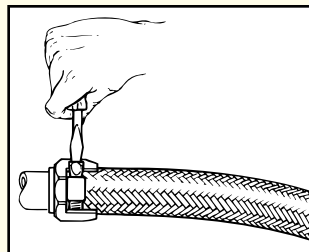
Overbraid



Step 1. Disconnect the radiator hose. Slide overbraid over the radiator hose.

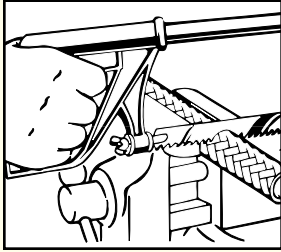


Step 2. Stretch until snug, mark length and cut with tin snips.

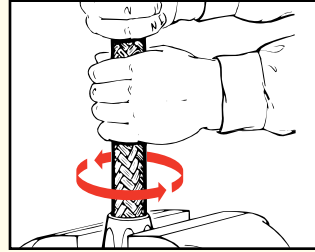


Step 3. Reconnect radiator hose and secure hose and overbraid with clamp or ProClamp clamp.

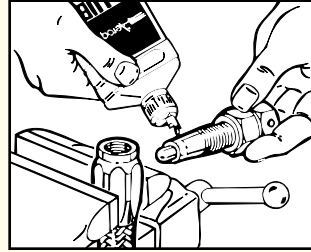
ASSEMBLY INSTRUCTIONS (CONT.)

**AQP High Pressure Hose (Power Steering)**

Step 1. Cut hose square with fine-tooth hacksaw or cut-off wheel.



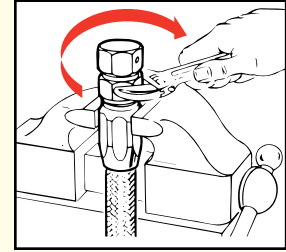
Step 2. Put socket in vise. Screw hose counterclockwise into socket until it bottoms. When assembling long lengths of hose, it may be preferred to put hose in vise just tight enough to prevent from turning, and screw socket onto the hose counterclockwise until it bottoms. Back off 1/4 turn.



Step 3. Male Ends: Push assembly tool into nipple.

Swivel Ends: Tighten nipple and nut on assembly tool.

Lubricate nipple, mandrel and inside of hose liberally with Aeroquip Performance Products assembly lube.

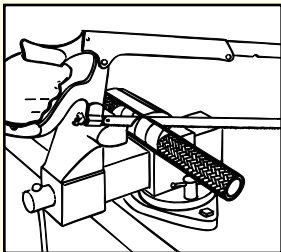


Step 4. Male Ends: Screw nipple clockwise into socket and hose. Leave a 1/32" clearance between nipple hex and socket.

Swivel Ends: Screw nipple clockwise into socket and hose. Leave 1/32" to 1/16" clearance between nut and socket. Clean, proof test to twice operating pressure and inspect all assemblies.

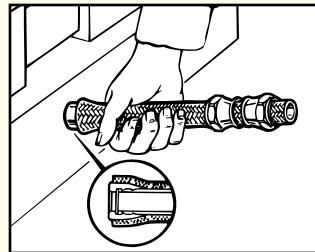
To disassemble: Reverse steps.

Note: It is recommended that all hose assemblies be proof pressure checked at twice the operating pressure using a proof test stand such as the Aeroquip Performance Products FT1058 stand.

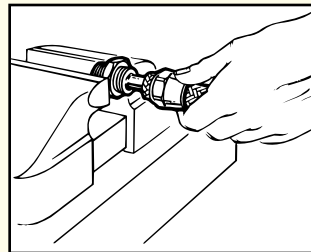
Racing Hose, Teflon* with Reusable Fitting

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.

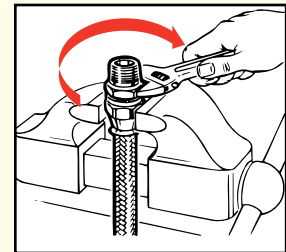
Sometimes wire braid hose will "neck down" on one end and "flare out" on the other end. This can be used to an advantage. Slip two sockets back to back over the "necked down" end of the hose, position approximately 3 inches from each end. Mount nipple hex in a vise. Work the hose bore over the nipple 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.



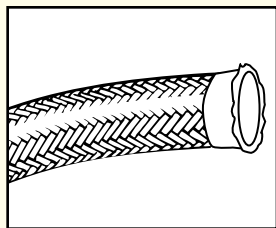
Step 4. Wrench tighten hex until clearance with socket hex is at .031 inches. Your thumbnail is a convenient measuring device. Tighten further to align corners of nipple and socket hexes. **CLEAN, PROOF TEST TO TWICE OPERATING PRESSURE AND INSPECT ALL ASSEMBLIES.**

To disassemble: Unscrew and remove nipple; slide socket back on hose by tapping against flat surface; remove sleeve with pliers.

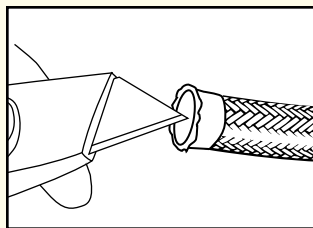
Important: Fittings may be disassembled and reused at least once. However, all such fittings should be carefully examined for distortion, thread damage and I.D. dimensions. New sleeve is recommended upon reuse of fitting.

Replacement brass sleeves are available. Refer to Page 15.

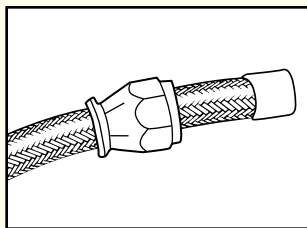
A/C Hose and Fittings



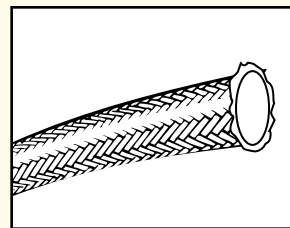
Step 1. Wrap a piece of tape around the hose twice and mark to the correct length for cutting. Using a cut-off saw, cut the hose through the tape where marked. This must be a clean, straight cut.



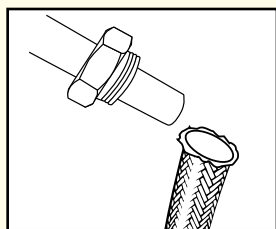
Step 2. Using a knife, remove any burrs or debris from the end of the hose. Clean the hose out thoroughly before assembling fittings.



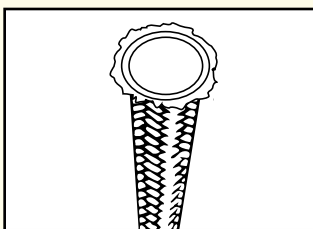
Step 3. Once the hose is cut and cleaned, insert the hose through the socket (the threads should be facing in the direction that the nipple will be inserted).



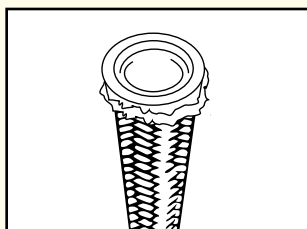
Step 4. With the socket slid on the hose, remove the tape. Be sure to remove all of the tape. Use a knife if necessary.



Step 5. Insert the FT1038A hose tool or fitting nipple gently into the end of the hose.

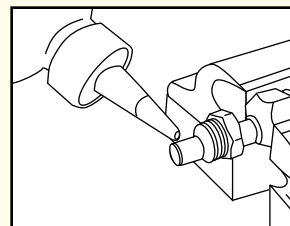


Step 6. Using a slow rotating motion, roll the hose tool or fitting nipple around inside the hose so that the braid separates from the tube as shown. Be careful not to stretch the tube out too much, or it will not fit into the sleeve in Step 7.

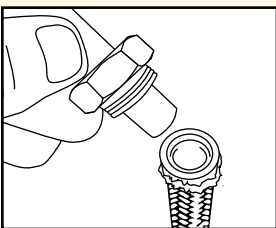


Step 7. Push the sleeve over the end of the blue tube and under the wire braid by hand. Complete positioning of the sleeve by pushing the hose end against a flat surface. Visually inspect to see that the tube stock butts against the O-ring

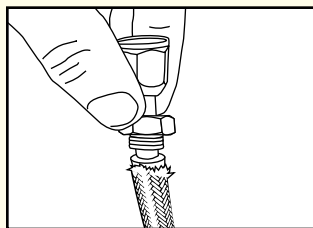
on the inside of the sleeve. Be careful not to kink or damage the hose during this process. If the hose is damaged, a new piece must be cut and used.



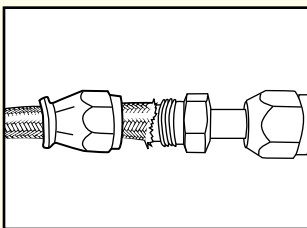
Step 8. Lubricate the nipple with refrigerant oil.



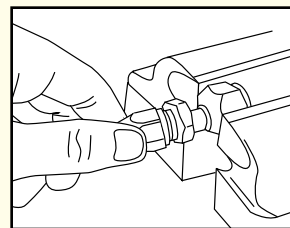
Step 9. Insert the lubricated nipple into the hose.



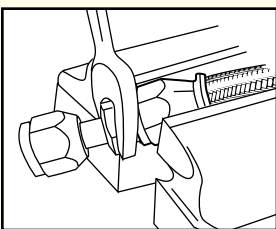
Step 10. Use a rotating motion until the nipple has bottomed out into the sleeve. Be very careful not to kink or crush the hose.



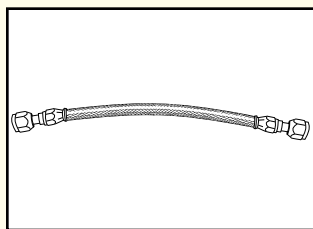
Step 11. With the nipple fully inserted, slide the socket back up the hose to the nipple threads.



Step 12. Hand tighten the socket to the nipple.



Step 13. Using a wrench, tighten the nipple the rest of the way onto the socket. It is ok if the hose rotates during this process. Be careful not to over-tighten the threads, this could cause stripping.

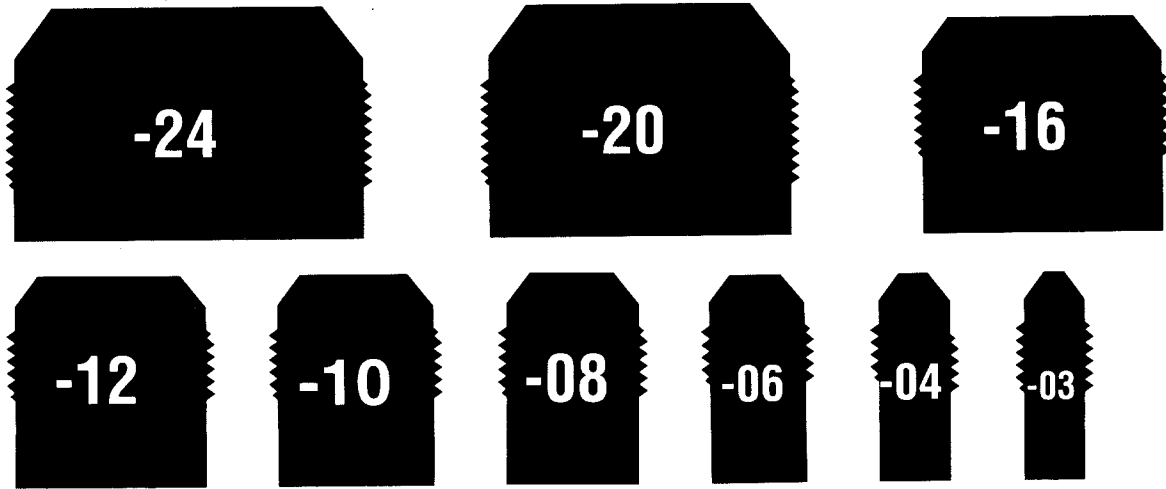


Step 14. Repeat Steps 2 thru 13 to complete the other end of hose assembly. Once assembled, remove any contaminants from the hose before installing it into the A/C system.

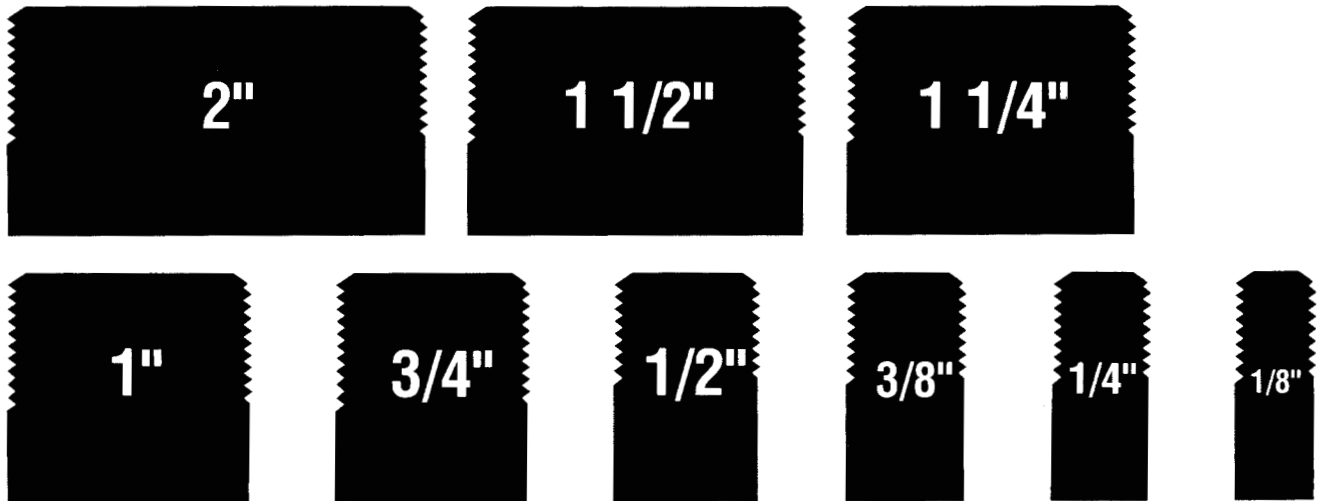
TECHNICAL DATA

Actual Fitting Sizes

SAE 37° AN FITTINGS



PIPE THREADS



“Dash” Size/Fractional Equivalent Guide

The following chart gives fractional equivalents to hose and fitting dash

sizes. Dash sizes are the numerators of fractions with a denominator of 16.

For example, -08 is equal to 8/16 which is equal to 1/2.

DASH SIZE/FRACTIONAL EQUIVALENT GUIDE

| S.A.E. 37° (AN) Dash Size | Nominal Fractional Equivalent INCHES |
|---------------------------|--------------------------------------|
| -02 | 1/8 |
| -03 | 3/16 |
| -04 | 1/4 |
| -05 | 5/16 |
| -06 | 3/8 |
| -08 | 1/2 |
| -10 | 5/8 |

DASH SIZE/FRACTIONAL EQUIVALENT GUIDE

| S.A.E. 37° (AN) Dash Size | Nominal Fractional Equivalent INCHES |
|---------------------------|--------------------------------------|
| -12 | 3/4 |
| -14 | 7/8 |
| -16 | 1 |
| -20 | 1 1/4 |
| -24 | 1 1/2 |
| -32 | 2 |

Thread Size Chart

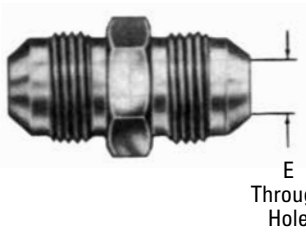
The following chart is intended as a quick reference guide for thread size by dash size.

| Dash Size | N.P.T.F. | N.P.S.M. Approximate Diameter | SAE 45° Automotive Refrigeration | SAE 37° AN | S.A.E. O-ring Boss | P.T.T. 30° Automotive | S.A.E. Inverted Flare | Tubing O.D. Size INCHES |
|-----------|--------------|-------------------------------|----------------------------------|------------|--------------------|-----------------------|-----------------------|-------------------------|
| -02 | 1/8-27 | 1/8-27 | 5/16-24 | 5/16-24 | 5/16-24 | | 5/16-24 | 1/8 |
| -03 | | | 3/8-24 | 3/8-24 | 3/8-24 | | 3/8-24 | 3/16 |
| -04 | 1/4-18 | 1/4-18 | 7/16-20 | 7/16-20 | 7/16-20 | | 7/16-24 | 1/4 |
| -05 | | | 1/2-20 | 1/2-20 | 1/2-20 | | 1/2-20 | 5/16 |
| -06 | 3/8-18 | 3/8-18 | 5/8-18 | 9/16-18 | 9/16-18 | | 5/8-18 | 3/8 |
| -07 | | | 1 1/16-24 | | | | 1 1/16-18 | |
| -08 | 1/2-14 | 1/2-14 | 3/4-16 | 3/4-16 | 3/4-16 | | 3/4-18 | 1/2 |
| -10 | | | 7/8-14 | 7/8-14 | 7/8-14 | | 7/8-18 | 5/8 |
| -12 | 3/4-14 | 3/4-14 | 1 1/16-14 | 1 1/16-12 | 1 1/16-12 | | 1 1/16-16 | 3/4 |
| -14 | | | | 1 3/16-12 | 1 3/16-12 | | | |
| -16 | 1 1/16-12 | 1 1/16-12 | | 1 5/16-12 | 1 5/16-12 | 1 5/16-14 | | 1 |
| -20 | 1 1/4-11 1/2 | 1 1/4-11 1/2 | | 1 5/8-12 | 1 5/8-12 | 1 5/8-14 | | 1 1/4 |
| -24 | 1 1/2-11 1/2 | 1 1/2-11 1/2 | | 1 7/8-12 | 1 7/8-12 | 1 7/8-14 | | 1 1/2 |
| -32 | 2 1/16-12 | 2 1/16-12 | | 2 1/2-12 | 2 1/2-12 | 2 1/2-12 | | 2 |

Through Hole Dimensions

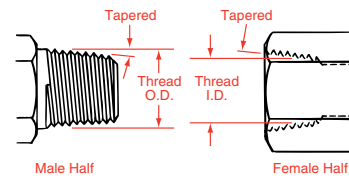
All dimensions are nominal. In jump size bodies, minimum through hole dimensions will correspond to the smallest dash size.

E THROUGH HOLE

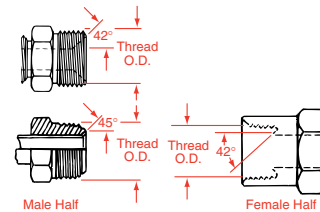
| S.A.E. 37° | Dash Size | S.A.E. 37° |
|---|-----------|------------|
|  | -03 | .12 |
| | -04 | .17 |
| | -05 | .23 |
| | -06 | .30 |
| | -08 | .39 |
| | -10 | .48 |
| | -12 | .61 |
| | -16 | .84 |
| | -20 | 1.08 |
| | -24 | 1.31 |
| | -32 | 1.78 |

Common Thread Connections

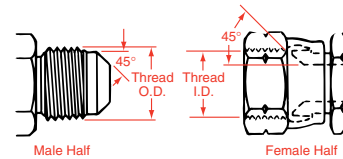
NPTF (NATIONAL PIPE TAPERED FUEL)



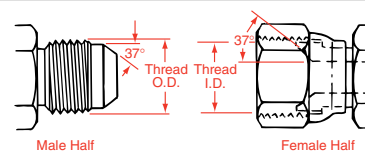
S.A.E. INVERTED FLARE



S.A.E. 45°



S.A.E. 37° (AN)



TECHNICAL DATA (CONT.)

Torque Specifications for Aluminum Fittings

One of the most frequently asked questions is how tight should the connection between the fitting and the adapter be?

The correct answer is to follow the specification guidelines listed below. This will give the proper tightness to allow for a good seal, but prevents damage to the fitting by over torque.

TORQUE SPECIFICATION GUIDELINES

| Nut Size | Minimum Torque ¹ | Maximum Torque ¹ |
|----------|-----------------------------|-----------------------------|
| -02 | 50 | 80 |
| -03 | 70 | 105 |
| -04 | 100 | 140 |
| -05 | 130 | 180 |
| -06 | 150 | 195 |
| -08 | 270 | 350 |
| -10 | 360 | 430 |
| -12 | 460 | 550 |
| -16 | 700 | 840 |
| -20 | 850 | 1020 |
| -24 | 900 | 1080 |
| -32 | 1800 | 2000 |

¹Torque values are shown in inch pounds for aluminum fittings.

There may be times when the correct torque wrench may not be available. In these cases you can follow one of the alternate tightening methods listed at right. **Please note that these methods are for aluminum performance fittings and adapters.**

Remember, overtightening will result in possible damage to the fitting, resulting in possible leaks.

Conversion Tables

INCH AND MILLIMETER EQUIVALENTS

| Inches Fractions | Inches Decimals | Millimeters Decimals | Inches Fractions | Inches Decimals | Millimeters Decimals |
|------------------|-----------------|----------------------|------------------|-----------------|----------------------|
| 1/64 | .016 | .397 | 7/32 | .219 | 5.556 |
| 1/32 | .031 | .794 | 15/64 | .234 | 5.953 |
| 3/64 | .047 | 1.191 | 1/4 | .250 | 6.350 |
| 1/16 | .063 | 1.588 | 17/64 | .266 | 6.747 |
| 5/64 | .078 | 1.984 | 9/32 | .281 | 7.144 |
| 3/32 | .094 | 2.381 | 19/64 | .297 | 7.541 |
| 7/64 | .109 | 2.778 | 15/16 | .313 | 7.938 |
| 1/8 | .125 | 3.175 | 21/64 | .328 | 8.334 |
| 9/64 | .141 | 3.572 | 11/32 | .344 | 8.731 |
| 5/32 | .156 | 3.969 | 23/64 | .359 | 9.128 |
| 11/64 | .172 | 4.366 | 3/8 | .375 | 9.525 |
| 3/16 | .188 | 4.763 | 25/64 | .391 | 9.922 |
| 13/64 | .203 | 5.159 | 13/32 | .406 | 10.319 |

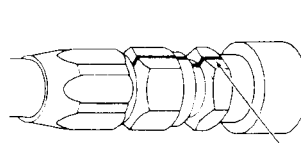
ALTERNATE TIGHTENING METHOD ONE

Flats Method

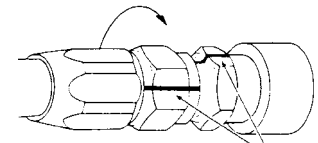
Here are the steps for an excellent method of tightening. Anyone can tell if the joint was tightened and how much.

1. Tighten the nut by hand until it bottoms the seats.
2. Using a marker, draw a line lengthwise on the nut and extend it onto the adapter.
3. Using a wrench, rotate the nut to tighten. Turn the nut the amount shown on the chart.

| Size | Number of Hex Flats Rotations |
|------|-------------------------------|
| -04 | 1 1/2 to 1 3/4 |
| -06 | 1 to 1 1/2 |
| -08 | 1 1/4 to 1 3/4 |
| -10 | 1 1/4 to 1 3/4 |
| -12 | 1 to 1 1/2 |
| -16 | 3/4 to 1 |
| -20 | 1/2 to 3/4 |
| -24 | 1/2 to 3/4 |



Mark a line on the nut and adapter before torquing.



Misalignment of the mark shows the amount which the nut was tightened.

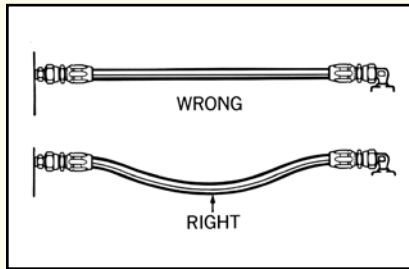
Alternate Tightening Method Two

The second alternate method of tightening is very simple and easy to remember. Bring the nut to hand tight and then rotate a quarter of a turn. This applies to all sizes. Mark the fitting as indicated in the flat method to confirm the quarter turn.

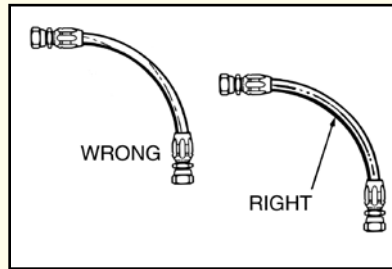
CONVERTING UNITS OF MEASURE

| Multiply | By | To Obtain | Multiply | By | To Obtain |
|--------------------|---------|--------------------|--------------------|------------------|-----------------|
| Atmospheres | 14.70 | Pounds/square inch | Liters | 0.2642 | Gallons |
| Atmospheres | 1.013 | Bars | Meters | 3.281 | Feet |
| Bars | 0.9869 | Atmospheres | Meters | 39.37 | Inches |
| Bars | 14.50 | Pounds/square inch | Microns | 10 ⁻⁶ | Meters |
| Centimeters | 0.3937 | Inches | Miles | 5280 | Feet |
| Feet | 0.3048 | Meters | Miles | 1.609 | Kilometers |
| Gallons | 231 | Cubic inches | Miles/hour | 1.609 | Kilometers/hour |
| Gallons | 3.785 | Liters | Miles/hour | 0.8684 | Knots |
| Gallons (Imperial) | 1.20105 | U.S. gallons | Ounces | 0.0625 | Pounds |
| Gallons (U.S.) | 0.83267 | Imperial gallons | Ounces (fluid) | 1.805 | Cubic inches |
| Gallons (water) | 8.3453 | Pounds of water | Ounces (fluid) | 0.02957 | Liters |
| Gallons/foot/hour | 8.0208 | Cubic minute | Pounds | 453.5924 | Grams |
| Horsepower | 745.7 | Watts | Pounds of water | 0.1198 | Gallons |
| Inches of mercury | 1.133 | Feet of water | Pounds/square inch | 0.06804 | Atmospheres |
| Kilometers | 0.6214 | Miles | Temp. (°C) | 1.8 | +32 Temp. (°F) |
| Liters | 0.03531 | Cubic feet | Temp. (°F) | -32 | 5/9 |
| Liters | 61.02 | Cubic inches | Temp. (°C) | | |

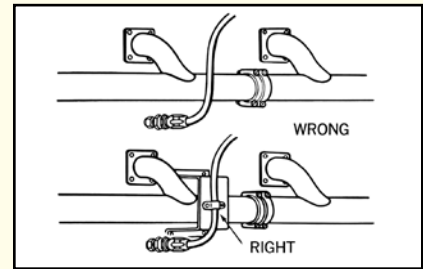
Hose Routing and Installation



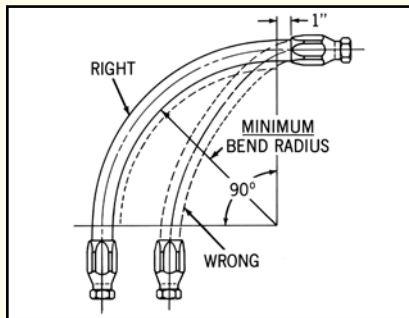
Under pressure, a hose may change in length. Always provide some slack in the hose to allow for this shortening or elongation. (However, excessive slack in hose lines may cause poor appearance.)



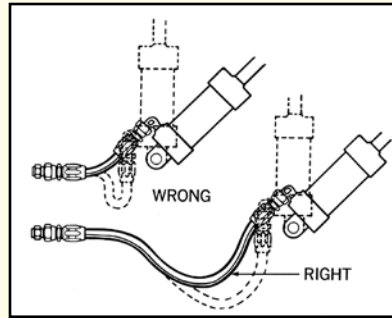
If a hose is installed with a twist in it, operating pressures tend to force it straight. This can loosen the fitting nut. Twisting can cause reinforcement separation, and the hose could burst at the point of strain.



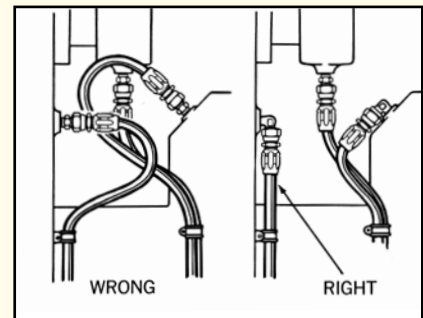
When hose lines pass near an exhaust manifold or other heat source, they should be insulated by a heat resistant boot, firesleeve or a metal baffle. In any application, brackets and clamps keep hose in place and reduce abrasion. For installations where abrasion to the hose cover cannot be prevented with the use of clamps or brackets, a steel protective coil or abrasion resistant sleeve should be placed over the hose.



At bends, provide sufficient hose so that it does not have a bend radius less than its recommended minimum bend radius. Too tight a bend may kink the hose and restrict or stop the fluid flow. In many cases, the proper use of adapters and hose fittings can eliminate tight bends or kinks.



In applications where there is considerable vibration or flexing, allow additional hose length. Metal hose fittings, of course, are not flexible, and proper installation protects metal parts from undue stress and avoids kinks in the hose.



When 90° adapters were used, this assembly became neater-looking and easier to inspect and maintain. It uses less hose, too!

Hose Maintenance

Maintenance

Hose assemblies in operation should be inspected frequently for leakage, kinking, abrasion, corrosion or any other signs of wear or damage. Worn or damaged hose assemblies should be replaced immediately.

Cleaning

Clean assembly by blowing out with clean compressed air. Assemblies may be rinsed out with mineral spirits if the tube stock is

compatible with oil; otherwise, hot water at +150°F maximum may be used. Consult Eaton for special cleaning equipment.

Inspection

Examine hose assembly internally for cut or bulged tube, obstructions and cleanliness. For segment style fittings, be sure the hose butts up against the nipple shoulder, band and retaining ring are properly set and tight, and segments are properly spaced. Check

for proper gap between nut and socket or hex and socket. Nuts should swivel freely. Check the layline of the hose to be sure the assembly is not twisted. Cap the ends of the hose with plastic covers to keep them clean.

Hydrostatic Proof Testing

The hose assembly should be hydrostatically tested at twice the recommended working pressure of the hose. Test pressure should be held for not more than

one minute and not less than 30 seconds. When test pressure is reached, visually inspect hose assembly for any leaks or signs of weakness and any movement of the hose fitting in relation to the hose. Any of these defects are cause for rejection.

Caution

Testing should be conducted in approved test stands with adequate guards to protect the operator.

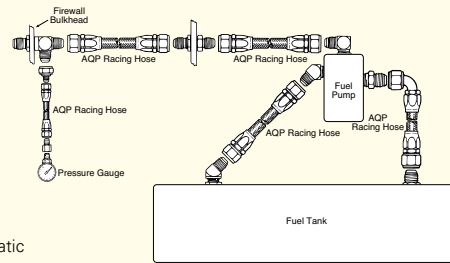
TECHNICAL DATA (CONT.)

AQP® Racing Hose System Schematics

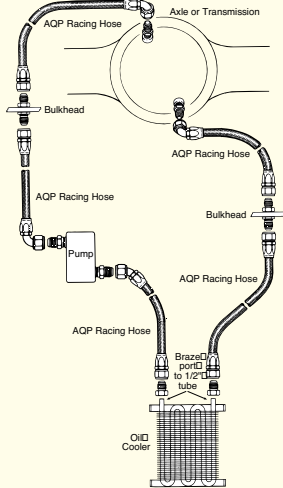
Typical Fuel System Connection Schematic



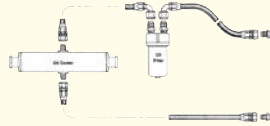
Typical Fuel System Schematic



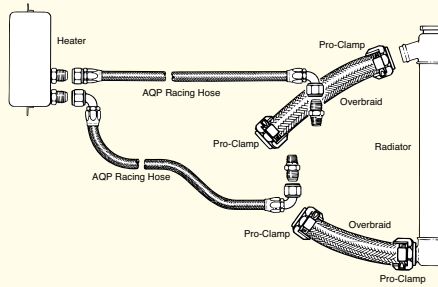
Typical Transmission or Axle Cooler Schematic



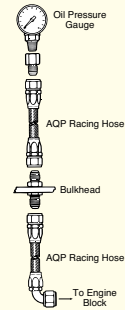
Typical Oil Cooler Schematic



Typical Radiator and Heater Schematic

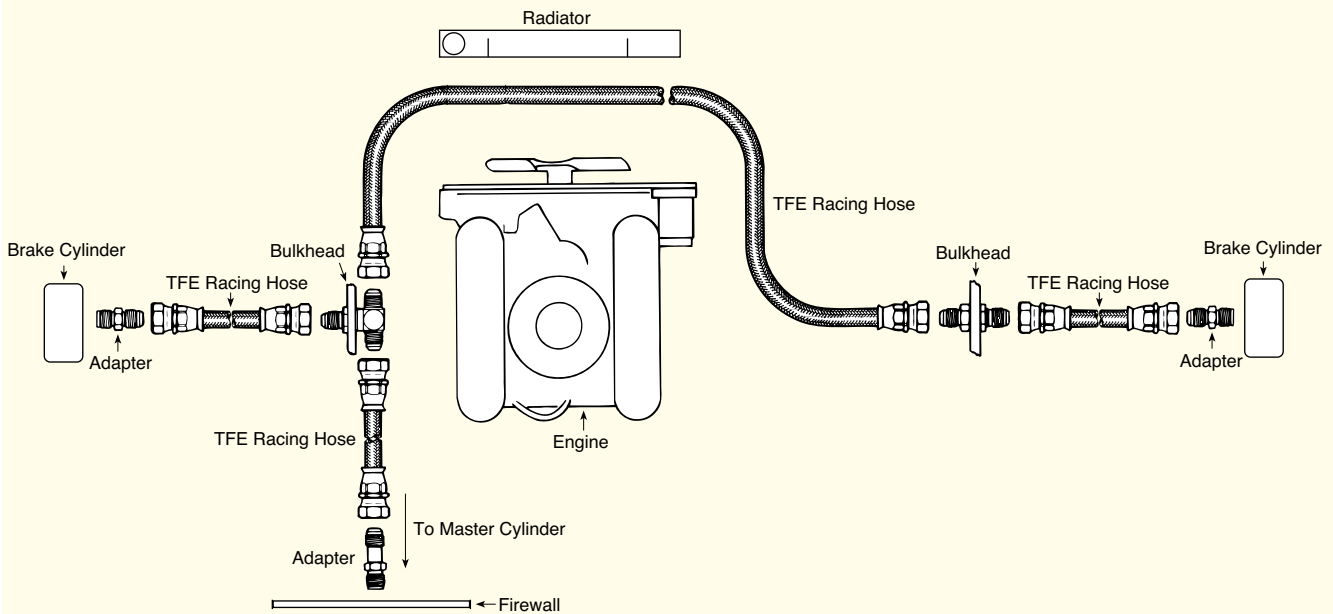


Typical Pressure Gauge Schematic



Racing Hose, Teflon® System Schematics

Typical Brake System Connection Schematic



*Teflon is a registered trademark of Dupont and under license by Eaton.

Flow Capacities of Hose Assemblies at Suggested Flow Velocities

This chart is provided as an aid for determining correct hose sizes.

Example

At 13 U.S. gallons per minute, what is the proper hose size within the suggested velocity range for pressure lines?

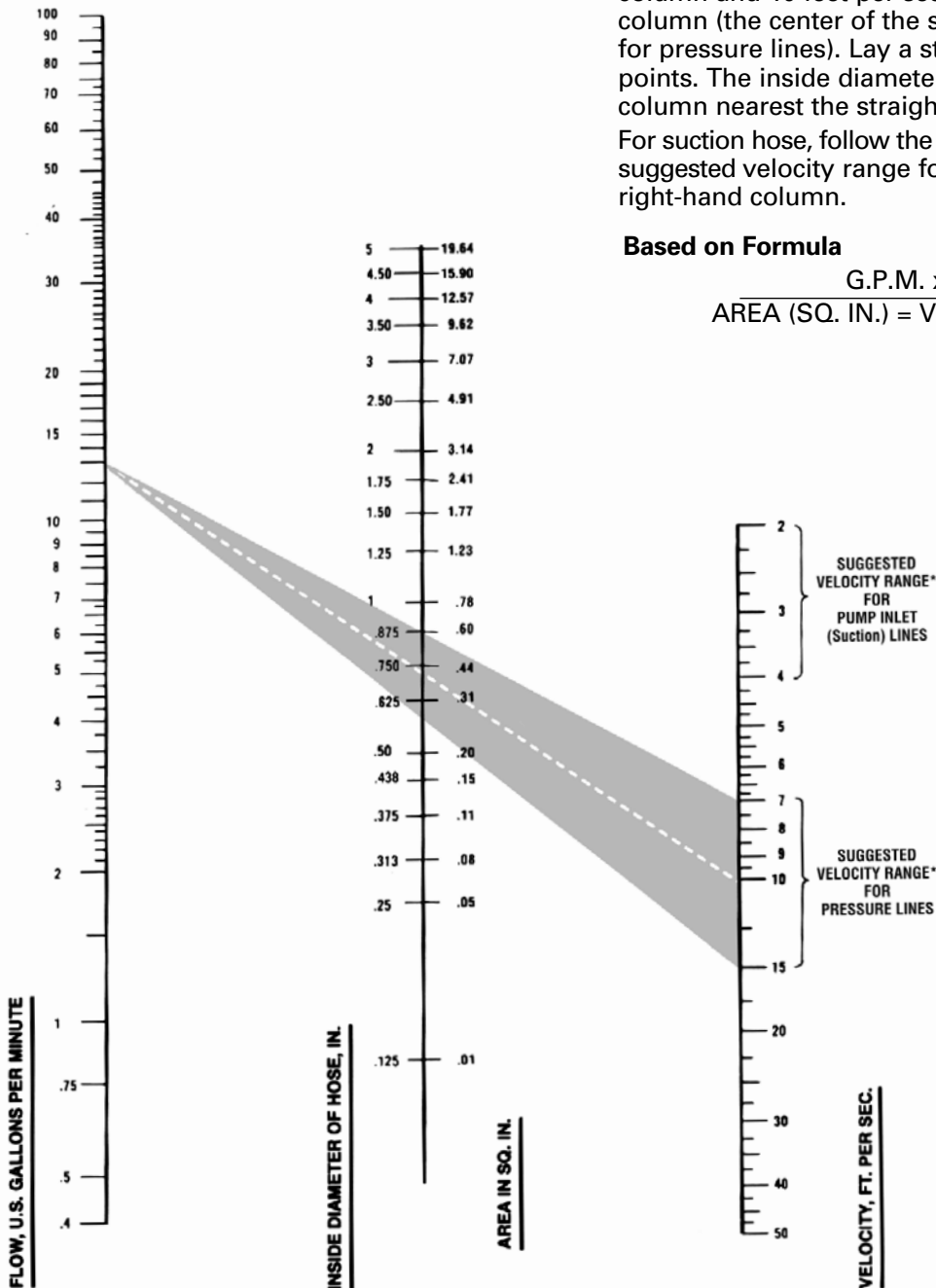
Solution

Locate 13 U.S. gallons per minute in the left-hand column and 10 feet per second in the right-hand column (the center of the suggested velocity range for pressure lines). Lay a straightedge across the two points. The inside diameter is shown in the center column nearest the straightedge.

For suction hose, follow the same procedure except use suggested velocity range for pump inlet lines in the right-hand column.

Based on Formula

$$\text{AREA (SQ. IN.)} = \frac{\text{G.P.M.} \times 0.3208}{\text{VELOCITY (FT./SEC.)}}$$



Conversion Factors

- To convert U.S. gallons into Imperial gallons, multiply U.S. gallons by 0.83267.
- To convert Imperial gallons into U.S. gallons, multiply Imperial gallons by 1.20105.
- To convert U.S. gallons into liters, multiply U.S. gallons by 3.785.
- To convert liters into U.S. gallons, multiply liters by 0.2642.

*Suggestions are for oils having a maximum viscosity of 315 S.S.U. at +100°F (+38°C) and operating at temperatures between +65°F and +155°F (+54°C to +69°C). Under certain conditions, velocities in pressure lines can be increased up to 25 feet per second. Contact Eaton with specific information on your application.

TECHNICAL DATA (CONT.)

Service Life Factors

Hose assemblies, like other products, have a finite service life. The actual service life of a given hose assembly in a given application is dependent on many variable factors, including the following:

Operating Pressure

Eaton's Aeroquip Performance Products hose assemblies are rated for continuous operation at the maximum operating pressure specified for the hose. Generally, the operating pressure is one fourth the hose minimum burst pressure.

Pressure Surges

Almost all hydraulic systems develop pressure surges which may exceed relief valve settings. Exposing the hose to surge pressure above the maximum operating pressure will shorten hose life and must be considered. A surge (rapid and transient rise in pressure) will not be indicated on many common pressure gauges but can be measured using electronic measuring devices. In systems where surges are severe, select a hose with a higher maximum operating pressure.

Burst Pressure

These are test values only and apply to hose assemblies that have not been used and have been assembled for less than 30 days.

High Pressure

High pressure gaseous systems especially over 250 psi are very hazardous and should be adequately protected from external shock and mechanical or chemical damage. They should also be suitably protected to prevent whiplash action in the event of failure.

Operating Temperatures

Operating temperatures specified refer to the maximum temperature of the fluid or gas being conveyed. High heat conditions may have an adverse effect on hoses due to degradation of the rubber which will limit hose usefulness and reduce fitting retention. In some cases, the fluid being conveyed will slow down this degradation, whereas other fluids may accelerate it. Therefore, the maximum temperature of each hose does not apply to all fluids or gases. Continuous use at maximum temperatures together with maximum pressures should always be avoided. Continuous use at or near the maximum temperature rating will cause a deterioration of physical properties of the tube and cover of most hose. This deterioration will reduce the service life of the hose.

Ambient Temperatures

Very high or low ambient (outside of hose) temperatures will affect cover and reinforcement materials, thus reducing the life of the hose.

Ambient temperatures in conjunction with internal temperatures are also an important factor. For specific recommendations, please consult Eaton.

Bend Radius

Recommended minimum bend radii are based on maximum operating pressures with no flexing of the hose. Safe operating pressure decreases when bend radius is reduced below the recommended minimum. Flexing the hose to less than the specified minimum bend radius will reduce hose life.

Chemical Resistance

Consider the chemical resistance of the fitting, O-ring, hose cover and tube stock. Covers are resistant to mildew, cleaning solvents, oils and fuels.

Vacuum Service

Maximum negative pressures shown for hose -16 and larger are suitable only for hose that has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hose, the use of an internal support coil is recommended.

IMPORTANT**Hose Assembly Inspection**

Hose assemblies in service should be inspected frequently for leakage, kinking, corrosion, abrasion or any other signs of wear or damage. Hose assemblies that are worn or damaged should be removed from service and replaced immediately.

A Caution about Fuel Injection

All hose listed in this catalog is suitable for use with leaded and unleaded fuels. However, caution must be used in fuel injection systems that recirculate fuel. This causes fuel to oxidize which can attack the hose inner tube. To increase service life, keep the time of exposure to the oxidized fuel to a minimum. Drain hose line or flush with original fuel or other suitable material.

Traditional Performance Products

FF13333

The 2"x4" Plan-O-Gram comes complete with all of the inventory, signage and support material needed to get you on the fast track of selling the hose and fitting line that has been the professionals' choice for over 60 years.

INVENTORY

| Part Number | Description | Qty. | Part Number | Description | Qty. | Part Number | Description | Qty. |
|-------------|------------------------------|------|-------------|--------------------------|------|-------------|---------------------------|------|
| FCM1012 | -6 Strt Reus Fitting | 2 | FCM1013 | -8 Strt Reus Fitting | 2 | FCM4025 | -12 45° Reus Fitting | 2 |
| FCM4022 | -6 45° Reus Fitting | 2 | FCM4023 | -8 45° Strt Reus Fitting | 2 | FCM4035 | -12 90° Reus Fitting | 2 |
| FCM4032 | -6 90° Reus Fitting | 2 | FCM4033 | -8 90° Strt Reus Fitting | 2 | FCM2010 | FStrt -12 AN to -1/2 Pipe | 2 |
| FCM4042 | -6 120° Reus Fitting | 2 | FCM2007 | Strt -8 AN to -3/8 Pipe | 2 | FCM2017 | F90° -12 AN to -1/2 Pipe | 2 |
| FCM2002 | Strt -4 AN to 1/4 Pipe | 2 | FCM4037 | -8 AN to -3/8 Pipe | 2 | FCM3671 | Allen Plug 1/2" Pipe | 2 |
| FCM2006 | Strt -6 AN to -3/8 Pipe | 2 | FCM2110 | Carb -8 AN to 7/8-20 | 2 | FCM3675 | Tube Nut -6 | 2 |
| FCM2022 | 45° -6 AN to -1/4 Pipe | 2 | FCM1014 | -10 Strt Reus Fitting | 2 | FCM3676 | Tube Sleeve -6 | 2 |
| FCM2035 | 90° -6 AN to -3/8 Pipe | 2 | FCM4024 | -10 45° Reus Fitting | 2 | FCM3672 | Tube Sleeve -8 | 2 |
| FCM2114 | Carb -6 AN to 7/8-20 | 2 | FCM4034 | -10 90° Reus Fitting | 2 | FCA0606 | -6 AQP Racing Hose (6") | 2 |
| FCM2111 | Fuel -6 to 1/2-20 Inv. Flare | 2 | FCM2010 | Strt -10 AN to 1/2 Pipe | 2 | FCA0803 | -8 AQP Racing Hose (3") | 2 |
| FCM2052 | Flare Union -6 AN/-6 AN | 2 | FCM2039 | 90° -10 AN to -1/2 Pipe | 2 | FCA0806 | -8 AQP Racing Hose (6") | 2 |
| FCM3749 | Allen Plug 1/2" Pipe | 2 | FCM1015 | -12 Strt Reus Fitting | 2 | FF13365 | Merchandiser | 1 |

Nickel-Plated Products

FF14619

The 2"x2" Nickel-Plated Fitting and SOCKETLESS™ Hose Plan-O-Gram comes complete with all of the inventory, signage and support material needed to get you on the fast track of selling the hose and fitting line that has been the professionals' choice for over 60 years.

INVENTORY

| Part Number | Description | Qty. | Part Number | Description | Qty. | Part Number | Description | Qty. |
|-------------|------------------------|------|-------------|------------------------|------|-------------|-----------------|------|
| FCE1512 | -6 Strt Sktls Fitting | 2 | FCE1533 | -8 90° Sktls Fitting | 2 | FCE2035 | -6 90° Adapter | 2 |
| FCE1513 | -8 Strt Sktls Fitting | 2 | FCE1534 | -10 90° Sktls Fittin | 2 | FCE2037 | -8 90° Adapter | 2 |
| FCE1514 | -10 Strt Sktls Fitting | 2 | FCE2005 | -6 AN to Pipe Adapter | 2 | FCE2039 | -10 90° Adapter | 2 |
| FCE1522 | -6 45° Sktls Fitting | 2 | FCE2007 | -8 AN to Piper Adapter | 2 | FCN0615 | -6 Sktls Hose | 15" |
| FCE1523 | -8 45° Sktls Fitting | 2 | FCE2010 | -10 AN to Pipe Adapter | 2 | FCN0815 | -8 Sktls Hose | 15" |
| FCE1524 | -10 45° Sktls Fitting | 2 | FCE2022 | -6 45° Adapter | 2 | FCN1015 | -10 Sktls Hose | 15" |
| FCE1532 | -6 90° Sktls Fitting | 2 | FCE2023 | -8 45° Adapter | 2 | FF13365 | Merchandiser | 1 |

A/C Hose Products

FF13565

The 2"x2" A/C Fitting and Hose Plan-O-Gram comes complete with all of the inventory, signage and support material needed to get you on the fast track of selling the hose and fitting line that has been the professionals' choice for over 60 years.

INVENTORY

| Part Number | Description | Qty. | Part Number | Description | Qty. | Part Number | Description | Qty. |
|-------------|--------------------------|------|-------------|------------------------|------|-------------|-------------------------|------|
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Stand-Alone Merchandising Kit (Make Your Own)

FF13365

- "Aeroquip Performance Products Sold Here" cling-on window decal
- Header card for Plan-O-Gram
- Aeroquip Performance Products 2"x5" banner
- 35 Reorder tags



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