



Perform-O-Flex Hose



Earl's Perform-O-Flex stainless braided hose is the same premium quality hose used by the top racing teams of every major racing organization around the world.

Perform-O-Flex quality hose is demanded because of its unique combination of professional appearance, extreme flexibility and unexcelled reliability under even the most stringent racing conditions.

If you're going to pay for top quality, demand it. Settle for nothing less than Earl's Perform-O-Flex hose and Swivel Seal hose ends.

Partial Coverage Inner Braid is woven between the inner liner and a second layer of high temperature synthetic rubber. The timing of the braiding and the curing of the rubber during construction are the key to achieving the desired flexibility and mechanical bond between the braiding layers. Beware of cheaper hoses that do not have this critical mechanical bond.

The Inner Liner Constructed from Tempereal Synthetic Rubber Tube is clean and fast flowing. Provides constant flow at operating temperatures from -40° to +300°F.

Full Coverage Outer Braid of High Tensile Stainless Steel provides maximum pressure capabilities, while maintaining the beauty and flexibility that is responsible for the popularity of Perform-O-Flex hose.

| SIZE | I.D. | O.D. | PART NO. (per foot) | MIN. BEND RADIUS | RECOMMENDED APPLICATION |
|------|--------|---------|---------------------|------------------|---|
| 4 | 7/32" | 7/16" | 12 000004 | 2.0" | Small oil and fuel lines, pressure gauges, vacuum lines |
| 6 | 11/32" | 35/64" | 12 000006 | 2.5" | Carburetor, fuel and oil lines |
| 8 | 7/16" | 41/64" | 12 000008 | 3.5" | Water, fuel and oil lines (racing) |
| 10 | 9/16" | 51/64" | 12 000010 | 4.0" | Oil and fuel lines, heater hoses |
| 12 | 11/16" | 15/16" | 12 000012 | 4.5" | Water, fuel and oil lines, heater hoses |
| 16 | 7/8" | 1-5/32" | 12 000016 | 5.5" | Water, dry sump and fuel lines, heater hoses |

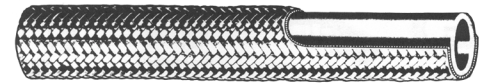
ALL HOSE SOLD BY THE FOOT. INQUIRE FOR BULK DISCOUNTS!

Speed-Flex Hose

APPLICATION: Medium pressure hydraulic systems, flexible brake and clutch lines. Also used for instrument lines where extreme protection is necessary.

CONTINUOUS OPERATING TEMPERATURE RANGE: -65° TO + 450°F

Widely accepted in all forms of racing as the ONLY hose to use for the flexible brake and clutch lines on racing cars and motorcycles. The stiffness of the Teflon liner, combined with the resistance of the stainless steel braided outer cover, dramatically reduces brake line expansion under pressure resulting in a much firmer and more controlled brake pedal. The improved abrasion and heat resistance are secondary – but nice. Beware of imitations which offer good pressure capacity without the resistance to expansion designed into ES 600 Fluor-O-Flex™ Hose.



| SIZE | I.D. | PART NO. (sold per foot) | OPERATING PRESSURE (PSI) |
|------|-------|--------------------------|--------------------------|
| -3 | .125" | 12 000103 | 2000 |
| -4 | .190" | 12 000104 | 2000 |

Super Stock Hose

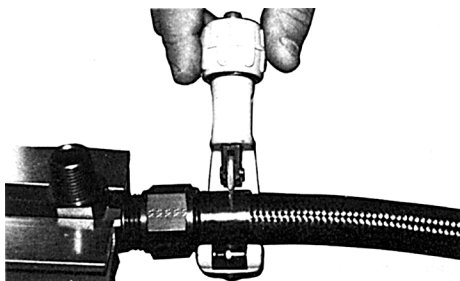
NOTE: Super Stock hose is special order. Please call for price & delivery.



Earl's Super Stock hose is a high quality synthetic rubber hose reinforced by a full coverage interior braided fabric sheath. This superior replacement hose for original equipment applications has recently found favor with professional racing teams. Available in red, blue or black, Super Stock is rated at 250 psi and 250°F continuous service.

Super Stock hose is intended for use with Super Stock and EZ-Fit hose ends only. It is also for use with hose nipples and beaded tubing. No other Earl's hose ends are intended for use with Super Stock hose.

| COLOR | HOSE SIZE | I.D. | O.D. | MAX OPERATING PRESSURE (PSI) | MINIMUM BEND RADIUS | PART NO. (sold per foot) |
|-------|-----------|------|---------|------------------------------|---------------------|--------------------------|
| Red | 4 | 1/4" | 15/32" | 250 | 2.5 | 12 740004 |
| Black | 4 | 1/4" | 15/32" | 250 | 2.5 | 12 780004 |
| Blue | 4 | 1/4" | 15/32" | 250 | 2.5 | 12 790004 |
| Red | 6 | 3/8" | 5/8" | 250 | 3 | 12 740006 |
| Black | 6 | 3/8" | 5/8" | 250 | 3 | 12 780006 |
| Blue | 6 | 3/8" | 5/8" | 250 | 3 | 12 790006 |
| Red | 8 | 1/2" | 3/4" | 250 | 5 | 12 740008 |
| Black | 8 | 1/2" | 3/4" | 250 | 5 | 12 780008 |
| Blue | 8 | 1/2" | 3/4" | 250 | 5 | 12 790008 |
| Red | 10 | 5/8" | 15/16" | 250 | 6 | 12 740010 |
| Black | 10 | 5/8" | 15/16" | 250 | 6 | 12 780010 |
| Blue | 10 | 5/8" | 15/16" | 250 | 6 | 12 790010 |
| Red | 12 | 3/4" | 1-1/32" | 250 | 7 | 12 740012 |
| Black | 12 | 3/4" | 1-1/32" | 250 | 7 | 12 780012 |
| Blue | 12 | 3/4" | 1-1/32" | 250 | 7 | 12 790012 |



Auto-Crimp Installation Wheel

Originally intended for OEM and speed shop accounts, this simple tool allows field assembly of AUTO-CRIMP hose ends with Earl's anodized aluminum crimping sleeves. The result is an economical and extremely lightweight permanent assembly. The AUTO-CRIMP installation tool can also be used to crimp the sleeves on Super Stock hose ends to increase the integrity of the connection. Wheel is used with Imperial Eastman TC 1000.

| PART NO. | DESCRIPTION |
|----------|-------------------------------|
| 12 019 | Auto-Crimp Installation Wheel |

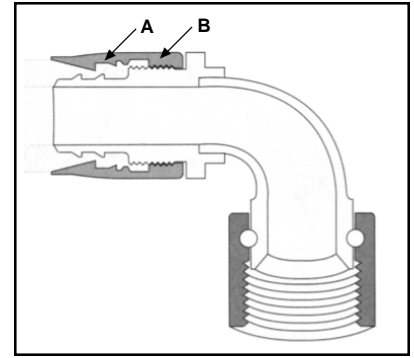


Auto-Fit™ Hose Ends

Earl's newest hose fitting design provides the look and reliability of our Swivel-Seal™ hose ends, and are easier to use and less expensive. The seal is created at points "A" and "B". Other single nipple designs actually use the threads to create a seal, forming a path for potential seepage.

Before you buy a fitting that merely 'looks good' – check the pressure ratings on the chart below and you'll see that Earl's Auto-Fit™ hose ends are 'up to the task' of *any* performance application.

Remember — High Pressure Capabilities = Greater Reliability!



Straight

| PART NO. | HOSE END SIZE | USE HOSE SIZE | ADAPTER SIZE | MAX. OPERATING PRESSURE PSI* | RECOMMENDED APPLICATION |
|-------------------|---------------|---------------|--------------|------------------------------|--|
| 12 400104 (steel) | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 300104 | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 300106 | 6 | 6 | 6 | 1500 | Fuel lines |
| 12 300108 | 8 | 8 | 8 | 1500 | Fuel, remote oil filter lines |
| 12 300110 | 10 | 10 | 10 | 1250 | Dry sump, remote oil filter lines |
| 12 300112 | 12 | 12 | 12 | 1000 | Dry sump, remote oil filter lines |
| 12 300116 | 16 | 16 | 16 | 750 | Dry sump & water lines |
| 12 300120 | 20 | 20 | 20 | 500 | Water lines |



45° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE | ADAPTER SIZE | MAX. OPERATING PRESSURE PSI* | RECOMMENDED APPLICATION |
|-------------------|---------------|---------------|--------------|------------------------------|--|
| 12 404604 (steel) | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 304604 | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 304606 | 6 | 6 | 6 | 1500 | Fuel lines |
| 12 304608 | 8 | 8 | 8 | 1500 | Fuel, remote oil filter lines |
| 12 304610 | 10 | 10 | 10 | 1250 | Dry sump, remote oil filter lines |
| 12 304612 | 12 | 12 | 12 | 1000 | Dry sump, remote oil filter lines |
| 12 304616 | 16 | 16 | 16 | 750 | Dry sump & water lines |
| 12 304620 | 20 | 20 | 20 | 500 | Water lines |



90° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE | ADAPTER SIZE | MAX. OPERATING PRESSURE PSI* | RECOMMENDED APPLICATION |
|-------------------|---------------|---------------|--------------|------------------------------|--|
| 12 409104 (steel) | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 309104 | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 309106 | 6 | 6 | 6 | 1500 | Fuel lines |
| 12 309108 | 8 | 8 | 8 | 1500 | Fuel, remote oil filter lines |
| 12 309110 | 10 | 10 | 10 | 1250 | Dry sump, remote oil filter lines |
| 12 309112 | 12 | 12 | 12 | 1000 | Dry sump, remote oil filter lines |
| 12 309116 | 16 | 16 | 16 | 750 | Dry sump & water lines |
| 12 309120 | 20 | 20 | 20 | 500 | Water lines |



120° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE | ADAPTER SIZE | MAX. OPERATING PRESSURE PSI* | RECOMMENDED APPLICATION |
|-------------------|---------------|---------------|--------------|------------------------------|--|
| 12 412004 (steel) | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 312004 | 4 | 4 | 4 | 1500 | Fuel lines |
| 12 312006 | 6 | 6 | 6 | 1500 | Fuel, remote oil filter lines |
| 12 312008 | 8 | 8 | 8 | 1500 | Dry sump, remote oil filter lines |
| 12 312010 | 10 | 10 | 10 | 1250 | Dry sump, remote oil filter lines |
| 12 312012 | 12 | 12 | 12 | 1000 | Dry sump, remote oil filter lines |



180° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE | ADAPTER SIZE | MAX. OPERATING PRESSURE PSI* | RECOMMENDED APPLICATION |
|-------------------|---------------|---------------|--------------|------------------------------|--|
| 12 418004 (steel) | 4 | 4 | 4 | 1500 | Fuel lines, fuel & oil pressure gauges |
| 12 318004 | 4 | 4 | 4 | 1500 | Fuel lines |
| 12 318006 | 6 | 6 | 6 | 1500 | Fuel, remote oil filter lines |
| 12 318008 | 8 | 8 | 8 | 1500 | Dry sump, remote oil filter lines |
| 12 318010 | 10 | 10 | 10 | 1250 | Dry sump, remote oil filter lines |
| 12 318012 | 12 | 12 | 12 | 1000 | Dry sump, remote oil filter lines |

*When used with Perform-O-Flex Hose



Swivel-Seal™ Hose Ends

Swivel-Seal™ hose ends are stocked in all popular sizes. These are the finest quality hoses available.



Straight

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 800106 | 6 | 6 |
| 12 800108 | 8 | 8 |
| 12 800110 | 10 | 10 |
| 12 800112 | 12 | 12 |
| 12 800116 | 16 | 16 |



90° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 809106 | 6 | 6 |
| 12 809108 | 8 | 8 |
| 12 809110 | 10 | 10 |
| 12 809112 | 12 | 12 |
| 12 809116 | 16 | 16 |



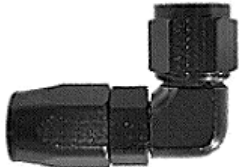
Forged

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 804506 | 6 | 6 |
| 12 804508 | 8 | 8 |
| 12 804510 | 10 | 10 |
| 12 804512 | 12 | 12 |



120° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 812006 | 6 | 6 |
| 12 812008 | 8 | 8 |
| 12 812010 | 10 | 10 |
| 12 812012 | 12 | 12 |
| 12 812016 | 16 | 16 |



90° Forged

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 809006 | 6 | 6 |
| 12 809008 | 8 | 8 |
| 12 809010 | 10 | 10 |
| 12 809012 | 12 | 12 |



150° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 815006 | 6 | 6 |
| 12 815008 | 8 | 8 |
| 12 815010 | 10 | 10 |
| 12 815012 | 12 | 12 |
| 12 815016 | 16 | 16 |



45° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 804606 | 6 | 6 |
| 12 804608 | 8 | 8 |
| 12 804610 | 10 | 10 |
| 12 804612 | 12 | 12 |
| 12 804616 | 16 | 16 |



180° Bent Tube

| PART NO. | HOSE END SIZE | USE HOSE SIZE |
|-----------|---------------|---------------|
| 12 818006 | 6 | 6 |
| 12 818008 | 8 | 8 |
| 12 818010 | 10 | 10 |
| 12 818012 | 12 | 12 |
| 12 818016 | 16 | 16 |

Male Pipe Threads



Straight



45° Bent Tube



90°

| MALE THREAD SIZE | USE HOSE SIZE | STRAIGHT PART NO. | 45° PART NO. | 90° PART NO. |
|------------------|---------------|-------------------|--------------|--------------|
| 1/8NPT | 6 | 12 820162 | 12 824562 | 12 829062 |
| 1/4NPT | 6 | 12 820106 | 12 824506 | 12 829006 |
| 3/8 NPT | 6 | 12 820166 | 12 824566 | 12 829066 |
| 1/4 NPT | 8 | 12 820107 | 12 824507 | 12 829007 |
| 3/8 NPT | 8 | 12 820108 | 12 824508 | 12 829008 |
| 1/2 NPT | 8 | 12 820188 | 12 824588 | 12 829088 |
| 3/8 NPT | 10 | 12 820111 | 12 824511 | 12 829011 |
| 1/2 NPT | 10 | 12 820110 | 12 824510 | 12 829010 |
| 1/2 NPT | 12 | 12 820113 | 12 824513 | 12 829013 |
| 3/4 NPT | 12 | 12 820112 | 12 824512 | 12 829012 |



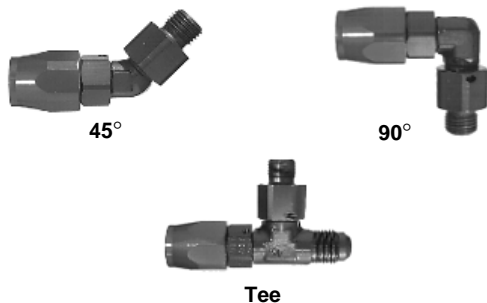
Swivel-Seal™ Hose Ends

MALE AN THREADS



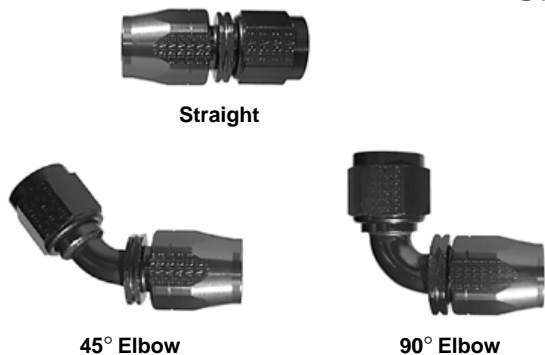
| MALE THREAD SIZE | USE HOSE SIZE | STRAIGHT PART NO. | 45° PART NO. | 90° PART NO. |
|------------------|---------------|-------------------|--------------|--------------|
| 7/16-20 AN | 6 | N.A. | 12 844564 | 12 849064 |
| 1/2-20 AN | 6 | N.A. | 12 844565 | 12 849065 |
| 9/16-18 AN | 6 | 12 840106 | 12 844506 | 12 849006 |
| 3/4-16 AN | 6 | N.A. | 12 844568 | 12 849068 |
| 9/160-18 AN | 8 | N.A. | 12 844586 | 12 849086 |
| 3/4-16 AN | 8 | 12 840108 | 12 844508 | 12 849008 |
| 7/8-14 AN | 8 | N.A. | 12 844581 | 12 849081 |
| 3/4-16 AN | 10 | N.A. | 12 844509 | 12 849009 |
| 7/8-14 AN | 10 | 12 840110 | 12 844510 | 12 849010 |
| 11/16-12 AN | 10 | N.A. | 12 844511 | 12 849011 |
| 7/8-14 AN | 12 | N.A. | 12 844513 | 12 849013 |
| 11/16-12 AN | 12 | 12 840112 | 12 844512 | 12 849012 |

SPECIAL PURPOSE



| MALE THREAD SIZE | USE HOSE SIZE | COMMON USAGE | 45° PART NO. | 90° PART NO. | TEE PART NO. |
|------------------|---------------|-------------------------|--------------|--------------|--------------|
| 12mm x 1.25 | 6 | Dellorto, Solex, Mukuni | 12 844591 | 12 849091 | 12 849391 |
| 12mm x 1.50 | 6 | Weber | 12 844592 | 12 849092 | 12 849392 |
| 1/2-20 | 6 | Fuel pump | 12 844595 | 12 849095 | 12 849395 |
| 5/8-18 | 6 | Fuel pump | 12 844596 | 12 849096 | 12 849396 |
| 9/16-24 | 6 | Holley small inlet | 12 844594 | 12 849094 | 12 849394 |
| 7/8-20 | 6 | Holley large inlet | 12 844593 | 12 849093 | 12 849393 |

Super Stock Hose Ends



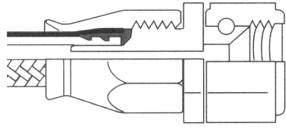
| HOSE SIZE | HOSE I.D. | FITTING SIZE | STRAIGHT PART NO. | 45° PART NO. | 90° PART NO. |
|-----------|-----------|--------------|-------------------|--------------|--------------|
| 4 | 1/4" | 4 | 12 700145 | 12 704645 | 12 709145 |
| 6 | 3/8" | 6 | 12 700167 | 12 704667 | 12 709167 |
| 8 | 1/2" | 8 | 12 700109 | 12 704609 | 12 709109 |
| 10 | 5/8" | 10 | 12 700111 | 12 704611 | 12 709111 |
| 12 | 3/4" | 12 | 12 700113 | 12 704613 | 12 709113 |



**Speed-Seal™ Hose Ends
REUSABLE HIGH PRESSURE HOSE ENDS**

CONSTRUCTION: Specifically designed for use with Speed-Flex™ hose only, forming a positive leak resistant seal. Do not attempt to use fittings designed for use with other types of hose on Speed-Flex™.

APPLICATIONS: Flexible brake and clutch lines and instrument lines where extreme protection is needed or desired.



| ESSEX PART NO. | HOSE END SIZE | HOSE SIZE |
|----------------|---------------|-----------|
| 12 600103 | 3 | 3 |
| 12 600104 | 4 | 4 |
| 12 600143 | 4 | 3 |

| ESSEX PART NO. | HOSE END SIZE | DESCRIPTION |
|----------------|---------------|---------------|
| 12 604503 | 3 | 45° forging |
| 12 604504 | 4 | 45° forging |
| 12 604603 | 3 | 45° bent tube |
| 12 604604 | 4 | 45° bent tube |

| ESSEX PART NO. | HOSE END SIZE | THREAD SIZE |
|----------------|---------------|-------------------------|
| 12 640103 | 3 | 3/8-24 male |
| 12 640203 | 3 | 3/4-24 bulkhead male |
| 12 640303 | 3 | 10mm x 1.0 male |
| 12 640403 | 3 | 10mm x 1.25 male |
| 12 640503 | 3 | 3/8-24 female I.F. |
| 12 640603 | 3 | 10mm x 1.0 female I.F. |
| 12 640703 | 3 | 10mm x 1.25 female I.F. |



| ESSEX PART NO. | HOSE END SIZE | DESCRIPTION |
|----------------|---------------|----------------|
| 12 609003 | 3 | 90° forging |
| 12 609004 | 4 | 90° forging |
| 12 609103 | 3 | 90° bent tube |
| 12 609104 | 4 | 90° bent tube |
| 12 612003 | 3 | 120° bent tube |
| 12 612004 | 4 | 120° bent tube |
| 12 618003 | 3 | 180° bent tube |
| 12 618004 | 4 | 180° bent tube |



| ESSEX PART NO. | HOSE SIZE | BANJO BOLT SIZE | LENGTH |
|----------------|-----------|-----------------|----------------|
| 12 600303 | 3 | 10mm or 3/8 | Short |
| 12 600703 | 3 | 10mm or 3/8 | Long |
| 12 600803 | 3 | 10mm or 3/8 | Long-bent tube |

Econ-O-Fit™ Hose Clamps

| ECON-O-FIT SIZE | INNER DIAMETER | PART NO. RED | PART NO. BLUE | FITS ECON-O-BRAID or PERFORM-O-FLEX & AUTO-FLEX HOSE SIZE |
|-----------------|----------------|--------------|---------------|---|
| 4 | 1/2" | 12 900104 | 12 900204 | 4 or 5 |
| 6 | 5/8" | 12 900106 | 12 900206 | 6 |
| 8 | 11/16" | 12 900108 | 12 900208 | 7 or 8 |
| 10 | 7/8" | 12 900110 | 12 900210 | 10 |
| 12 | 1" | 12 900112 | 12 900212 | 12 |
| 14 | 1-1/8" | 12 900114 | 12 900214 | 12 or 14 |
| 16 | 1-3/16" | 12 900116 | 12 900216 | 16 |





AN901 ALUMINUM CRUSH WASHERS

| ESSEX PART NO. | SIZE |
|----------------|----------------|
| 12 177003 | -3, pkg. of 10 |
| 12 177004 | -4, pkg. of 10 |
| 12 177006 | -6, pkg. of 10 |
| 12 177008 | -8, pkg. of 5 |
| 12 177010 | -10, pkg. of 5 |
| 12 177012 | -12, pkg. of 5 |
| 12 177016 | -16, pkg. of 2 |

COPPER WASHERS

Seal hydraulic fittings

| ESSEX PART NO. | SIZE |
|----------------|------|
| 12 02011 | -3 |



STAT-O-SEALS

Rubber bonded sealing washer.

| ESSEX PART NO. | SIZE |
|----------------|----------------|
| 12 178003 | -3, pkg. of 2 |
| 12 178004 | -4, pkg. of 2 |
| 12 178006 | -6, pkg. of 2 |
| 12 178008 | -8, pkg. of 2 |
| 12 178010 | -10, pkg. of 2 |
| 12 178012 | -12, pkg. of 2 |
| 12 178014 | -14, pkg. of 2 |



BUNA N O-RING SEALS

| ESSEX PART NO. | SIZE |
|----------------|-----------------|
| 12 176003 | -3, pkg. of 10 |
| 12 176004 | -4, pkg. of 10 |
| 12 176006 | -6, pkg. of 10 |
| 12 176008 | -8, pkg. of 10 |
| 12 176010 | -10, pkg. of 10 |
| 12 176012 | -12, pkg. of 10 |
| 12 176016 | -16, pkg. of 10 |

HOSE CLAMPS

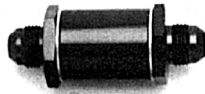
Stainless Steel

| ESSEX PART NO. | PKG QTY | I.D. MIN | I.D. MAX |
|----------------|---------|----------|----------|
| 12 174002 | 4 | .219 | .625 |
| 12 174003 | 4 | .375 | .875 |
| 12 174004 | 4 | .500 | 1.250 |
| 12 174005 | 4 | .500 | 1.500 |
| 12 174006 | 4 | .500 | 1.750 |
| 12 174008 | 4 | .750 | 2.500 |

TEFLON TAPE

For sealing fittings.

| ESSEX PART NO. | DESCRIPTION |
|----------------|-------------|
| 12 175002 | 1/2" x 500" |



SCREEN TYPE IN-LINE FUEL & OIL FILTERS

For use as "pre-" filters for fuel and oil systems. Easily disassembled for inspection and cleaning. Blue anodized.

| FUEL FILTER PART NO. | OIL FILTER PART NO. | SIZE |
|----------------------|---------------------|------|
| 12 230204 | 12 230304 | 4 |
| 12 230206 | 12 230306 | 6 |
| 12 230208 | 12 230308 | 8 |
| 12 230210 | 12 230310 | 10 |
| 12 230212 | 12 230312 | 12 |
| 12 230216 | 12 230316 | 16 |



IN-LINE FUEL FILTERS

In-line 35 micron sintered bronze element fuel filter. Easily disassembled for inspection and cleaning. Available with size 6 or 8 AN, or hose barb end fittings for use with Earl's high performance fuel line and fittings. Red anodized finish. Blue anodized.

| PART NO. | DESCRIPTION |
|-----------|-----------------|
| 12 230103 | BARB 5/16"-3/8" |
| 12 230106 | 6 AN male |
| 12 230108 | 8 AN male |
| 12 230107 | Element only |



ALUMINUM TUBING

Annealed aluminum tubing is easily hand formed to virtually any requirement. Can be used with Earl's Tube-Mate Auto-Fit hose ends. Can be flared and used with Earl's 5818 tube nut and 5819 tube sleeve or an adapter can be welded onto the end(s) of the tube, or ends can be beaded and used with Earl's Econ-O-Fit hose ends or with standard hose clamps. For clamping hose, tubing should be beaded. Unanodized.

| PART NO. | O.D. | LENGTH |
|-----------|------|--------|
| 12 100031 | 1/4 | 10' |
| 12 100034 | 3/8 | 10' |
| 12 100037 | 1/2 | 10' |



ASSEMBLY LUBE

Earl's Assembly Lube eases the installation of hose ends. 8 oz. bottle.

| PART NO. |
|-----------|
| 12 184004 |

SHUT-OFF VALVE

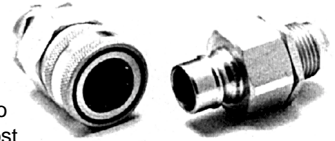
Ideal for use as (1) emergency fuel shut-off valve, (2) antitheft device, (3) drain valve. 350 PSI max.



| PART NO. | INLET THREAD SIZE | OUTLET THREAD SIZE | OVERALL BODY LENGTH | MATERIAL OF BODY |
|-----------|-------------------|--------------------|---------------------|---------------------|
| 12 230501 | 3/8 fem. NPT | 3/8 fem. NPT | 1-3/4" | Chrome plated brass |
| 12 230502 | 3/8 fem. NPT | -6 AN bulkhead | 2-3/4" | Red anodized alum. |
| 12 230503 | 3/8 fem. NPT | -8 AN bulkhead | 2-3/4" | Red anodized alum. |
| 12 230504 | 1/2 fem. NPT | 1/2 fem. NPT | 2-1/4" | Chrome plated brass |

QUICK DISCONNECT FITTINGS

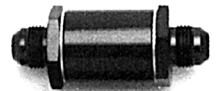
Instant disconnect and reconnect of fuel, lubricant, and hydraulic lines with virtually no spillage. Buna seals are compatible with most fuels and lubricants. Flow restriction is minimal. For higher temperatures and more severe applications, we offer aluminum QDV's with Viton seals.



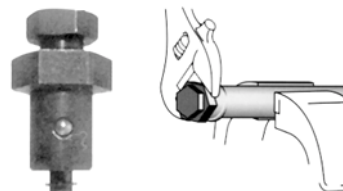
| ALUMINUM W/BUNA SEALS PART NO. | ALUMINUM W/VITON SEALS PART NO. | STEEL W/BUNA SEALS PART NO. | STEEL W/VITON SEALS PART NO. | SIZE | PRESSURE RATINGS | |
|--------------------------------|---------------------------------|-----------------------------|------------------------------|------|------------------|-------|
| | | | | | Aluminum | Steel |
| 12 240103 | 12 240303 | — | — | -3 | 2240 | — |
| 12 240104 | 12 240304 | 12 240204 | 12 240404 | -4 | 2250 | 6500 |
| 12 240106 | 12 240306 | 12 240206 | 12 240406 | -6 | 2250 | 4500 |
| 12 240108 | 12 240308 | 12 240208 | 12 240408 | -8 | 1750 | 4000 |
| 12 240110 | 12 240310 | 12 240210 | 12 240410 | -10 | 1750 | 4000 |
| 12 240112 | 12 240312 | 12 240212 | 12 240412 | -12 | 1750 | 3500 |
| 12 240116 | 12 240316 | 12 240216 | 12 240416 | -16 | 1750 | 2000 |

CHECK VALVES

(One-Way or Non-Return Valves) Earl's has redesigned the valves with modern elastomers which are not affected by most fuels and lubricants.



| PART NO. | FITTING SIZE | FLAPPER STYLE | FINISH |
|-----------|--------------|----------------------------------|---------------------|
| 12 250004 | 4 | Reinforced Viton | Blue anodized alum. |
| 12 250006 | 6 | Reinforced Viton | Blue anodized alum. |
| 12 250008 | 8 | Reinforced Viton | Blue anodized alum. |
| 12 251004 | 4 | Reinforced Viton w/alum. support | Blue anodized alum. |
| 12 251006 | 6 | Reinforced Viton w/alum. support | Red anodized alum. |
| 12 251008 | 8 | Reinforced Viton w/alum. support | Red anodized alum. |
| 12 251010 | 10 | Reinforced Viton w/alum. support | Red anodized alum. |
| 12 252012 | 12 | All-metal, conventional hinge | Red anodized alum. |
| 12 252016 | 16 | All-metal, conventional hinge | Red anodized alum. |



EARL'S EZ-BEADER™ TUBING BEADER

New patented EZ (ROLLER) BEADER is a fresh approach to an old problem. Compact enough to be used on already installed tubing. Produces a property positioned/perfectly radiused bead on aluminum tubing with wall thicknesses from .035" to .065".

| PART NO. | TUBE O.D. | PART NO. | TUBE O.D. |
|----------|-----------|----------|--------------|
| 17 008 | 3/8" | 17 013 | 1-1/4" |
| 17 009 | 1/2" | 17 014 | 1-1/2" |
| 17 010 | 5/8" | 17 015 | 1-3/4" |
| 17 011 | 3/4" | 17 016 | 2" |
| 17 012 | 1" | 17 018 | Set of all 9 |



PRESSURE TEST KITS

Every hose assembly should be pressure tested prior to installation. Kit consists of fitting with air valve in each size and matching plugs. Covers sizes 3 through 16.

| PART NO. |
|----------|
| 12 D016 |



Steel Adapter Fittings

AN TO AN ADAPTERS



Straight AN

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 961503 | 3 |
| 12 961504 | 4 |
| 12 961506 | 6 |
| 12 961508 | 8 |
| 12 961510 | 10 |
| 12 961512 | 12 |



90° Bulkhead Union

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 963303 | 3 |
| 12 963304 | 4 |
| 12 963306 | 6 |
| 12 963308 | 8 |
| 12 963310 | 10 |
| 12 963312 | 12 |



90° with Swivel Nut

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 966303 | 3 |
| 12 966304 | 4 |
| 12 966306 | 6 |
| 12 966308 | 8 |
| 12 966310 | 10 |
| 12 966312 | 12 |



Tee—Bulkhead on Side

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 963403 | 3 |
| 12 963404 | 4 |
| 12 963406 | 6 |
| 12 963408 | 8 |
| 12 963410 | 10 |
| 12 963412 | 12 |



AN Tee

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 962403 | 3 |
| 12 962404 | 4 |
| 12 962406 | 6 |
| 12 962408 | 8 |
| 12 962410 | 10 |
| 12 962412 | 12 |



Bulkhead Nut

| PART NO. | QTY PER PKG | FITTING SIZE |
|-----------|-------------|--------------|
| 12 502403 | 2 | 3 |
| 12 502404 | 2 | 4 |
| 12 502406 | 2 | 6 |
| 12 902408 | 1 | 8 |
| 12 902410 | 1 | 10 |
| 12 902412 | 1 | 12 |



Male Union to Female Reducing

| PART NO. | FEMALE END | MALE END |
|-----------|------------|----------|
| 12 969206 | -6 | -4 |
| 12 969208 | -8 | -6 |
| 12 969210 | -10 | -8 |
| 12 969212 | -12 | -10 |
| 12 969216 | -16 | -12 |



Tube Nut

| PART NO. | QTY PER PKG | FITTING SIZE |
|-----------|-------------|--------------|
| 12 561803 | 2 | 3 |
| 12 561804 | 2 | 4 |
| 12 561806 | 2 | 6 |
| 12 961808 | 1 | 8 |
| 12 961810 | 1 | 10 |
| 12 961812 | 1 | 12 |



Bulkhead Union

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 963203 | 3 |
| 12 963204 | 4 |
| 12 963206 | 6 |
| 12 963208 | 8 |
| 12 963210 | 10 |
| 12 963212 | 12 |



Tube Sleeve

| PART NO. | QTY PER PKG | FITTING SIZE |
|-----------|-------------|--------------|
| 12 561903 | 2 | 3 |
| 12 561904 | 2 | 4 |
| 12 561906 | 2 | 6 |
| 12 961908 | 1 | 8 |
| 12 961910 | 1 | 10 |
| 12 961912 | 1 | 12 |



45° Bulkhead Union

| PART NO. | FITTING SIZE |
|-----------|--------------|
| 12 963703 | 3 |
| 12 963704 | 4 |
| 12 963706 | 6 |
| 12 963708 | 8 |
| 12 963710 | 10 |
| 12 963712 | 12 |

PIPE THREAD TO AN ADAPTERS



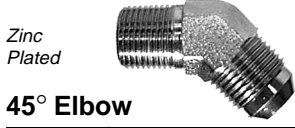
Straight

| PART NO. | FITTING SIZE | PIPE THREAD SZ |
|-----------|--------------|----------------|
| 12 961603 | 3 | 1/8 |
| 12 961604 | 4 | 1/8 |
| 12 961644 | 4 | 1/4 |
| 12 961662 | 6 | 1/8 |
| 12 961606 | 6 | 1/4 |
| 12 961666 | 6 | 3/8 |
| 12 961607 | 8 | 1/4 |
| 12 961608 | 8 | 3/8 |
| 12 961688 | 8 | 1/2 |
| 12 961611 | 10 | 3/8 |
| 12 961610 | 10 | 1/2 |
| 12 961613 | 12 | 1/2 |
| 12 961612 | 12 | 3/4 |



90° Elbow

| PART NO. | FITTING SIZE | PIPE THREAD SZ |
|-----------|--------------|----------------|
| 12 962203 | 3 | 1/8 |
| 12 962204 | 4 | 1/8 |
| 12 962244 | 4 | 1/4 |
| 12 962626 | 6 | 1/8 |
| 12 962266 | 6 | 3/8 |
| 12 962208 | 8 | 3/8 |
| 12 962207 | 8 | 1/4 |
| 12 962206 | 6 | 1/4 |
| 12 962288 | 8 | 1/2 |
| 12 962211 | 10 | 3/8 |
| 12 962210 | 10 | 1/2 |
| 12 962213 | 12 | 1/2 |
| 12 962212 | 12 | 3/4 |



45° Elbow

| PART NO. | FITTING SIZE | PIPE THREAD SZ |
|-----------|--------------|----------------|
| 12 962303 | 3 | 1/8 |
| 12 962304 | 4 | 1/8 |
| 12 962306 | 6 | 1/4 |
| 12 962308 | 8 | 3/8 |
| 12 962388 | 8 | 1/2 |
| 12 962310 | 10 | 1/2 |
| 12 962312 | 12 | 3/4 |

BRAKE & HYDRAULIC ADAPTER FITTINGS



Banjo

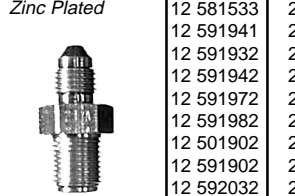
| PART NO. | THD SIZE | HOLE DIA | HEIGHT |
|-----------|----------|----------|--------|
| 12 997603 | -3 AN | 3/8" | .425 |
| 12 997604 | -4 AN | 7/16" | .425 |
| 12 997631 | -3 AN | 10mm | .425 |
| 12 997634 | -3 AN | 7/16" | .425 |
| 12 997641 | -4 AN | 10mm | .425 |
| 12 997643 | -4 AN | 3/8" | .425 |



Bulkhead Union

| PART NO. | PKG QTY | THREAD SIZE |
|-----------|---------|-----------------------------------|
| 12 963243 | 1 | -3 AN long side, -4 AN short side |
| 12 963203 | 1 | -3 AN steel |
| 12 963204 | 1 | -4 AN steel |
| 12 983203 | 1 | -3 AN aluminum |
| 12 983204 | 1 | -4 AN aluminum |

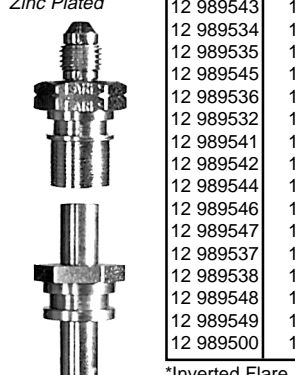
Brake Adapter



Brake Adapter

| PART NO. | PKG QTY | THREAD SIZE |
|-----------|---------|-------------------------------|
| 12 581531 | 2 | -3 AN to 3/8-24 IF* short |
| 12 581533 | 2 | -3 AN to 3/8-24 IF* long |
| 12 591941 | 2 | -4 AN to 7/16-20 IF* |
| 12 591932 | 2 | -3 AN to 7/16-24 IF* |
| 12 591942 | 2 | -4 AN to 7/16-24 IF* |
| 12 591972 | 2 | -4 AN to 3/8-24 IF* short |
| 12 591982 | 2 | -4 AN to 3/8-24 IF* long |
| 12 501902 | 2 | -3 AN to -4 AN |
| 12 591902 | 2 | -3 AN to -4 AN aluminum |
| 12 592032 | 2 | -3 AN TO 10mmX1.0 |
| 12 592035 | 2 | -3 AN to 10mmx1.25 IF* |
| 12 592042 | 2 | -4 AN to 10mmx1.0 |
| 12 592045 | 2 | -4 AN to 10mmx1.25 IF* |
| 12 592046 | 2 | -3 AN to 1/2-20 IF* aluminum |
| 12 592047 | 2 | -4 AN to 1/2-20 IF* aluminum |
| 12 592048 | 2 | -3 AN to 9/16-18 IF* aluminum |
| 12 592049 | 2 | -4 AN to 9/16-18 IF* aluminum |

Tubing Adapter



Tubing Adapter

| PART NO. | PKG QTY | THREAD SIZE |
|-----------|---------|--------------------------------|
| 12 989531 | 1 | -3 AN to 3/8-24 female |
| 12 989543 | 1 | -3 AN to 3/8-24 female IF* |
| 12 989534 | 1 | -3 AN to female 10mmx1.0 |
| 12 989535 | 1 | -3 AN to female 10mmx1.25 |
| 12 989545 | 1 | -3 AN to female 10mmx1.0 IF* |
| 12 989536 | 1 | -3 AN to female 10mmx1.25 IF* |
| 12 989532 | 1 | -4 to 3/8-24 female IF* |
| 12 989541 | 1 | -4 to 3/8-24 female |
| 12 989542 | 1 | -4 to female 10mmx1.0 |
| 12 989544 | 1 | -4 to female 10mmx1.0 IF* |
| 12 989546 | 1 | -4 AN to female 10mmx1.25 |
| 12 989547 | 1 | -4 AN to female 10mmx1.25 IF* |
| 12 989537 | 1 | -3 AN to 10mmx1.0 IF* (Honda) |
| 12 989538 | 1 | -3 AN to 10mmx1.0 IF* (Toyota) |
| 12 989548 | 1 | -4 AN to 7/16-24 IF* |
| 12 989549 | 1 | -3 AN to 7/16-24 IF* |
| 12 989500 | 1 | -3 hose Clip-in Fairlead |

BRAKE & HYDRAULIC ADAPTER FITTINGS



Tee

| PART NO. | PKG QTY | THREAD SIZE |
|-----------|---------|----------------------------------|
| 12 972050 | 1 | GM tee, female, 3/8-24 IF* brass |
| 12 961701 | 1 | 1/8 NPT female |

Banjo Bolt (includes 2 crush washers)

| PART NO. | PART NO. | THREAD SIZE | BANJO HOLE DIA |
|-----------|-----------|-----------------------------|----------------|
| 12 977503 | 12 997503 | 3/8-24 single | 3/8" |
| 12 977504 | — | 7/16-20 single | 7/16" |
| 12 977513 | 12 997513 | 3/8-24 double for 2 banjos | 3/8" |
| 12 977514 | — | 7/16-20 double for 2 banjos | 7/16" |
| 12 977515 | 12 997515 | 10mmx1.25 single | 10mm |
| 12 977516 | — | 3/8-24 inverted flare | 3/8" |
| 12 977517 | 12 997517 | 10mmx1.0 single | 10mm |
| 12 977518 | 12 997518 | 10mmx1.25 double | 10mm |
| 12 977519 | 12 997519 | 10mmx1.0 double | 10mm |
| 12 977520 | 12 997520 | 10mmx1.50 single | 10mm |
| 12 977521 | — | 1/8 NPT male | 3/8" |
| 12 977522 | — | 7/16-24 single | 7/16" |





The Mechanics of Plumbing

"AN" (Army-Navy) sizes, were established by the Aerospace Industry years ago and were established according to the metal tube that they are used with. Chart A will clarify this point.

A sharp eye will note that the numbers assigned equate to the O.D. (outer diameters) of the tubing in 1/16 of an inch. Since tubing and hoses are to be found with assorted wall thicknesses we can now understand that the designated size number does not necessarily tell you how large the inside diameter will be. (For example, the inside diameter of an Earl's size 6 hose end is nearly as large as the inside diameter of some other manufacturer' -8 hose ends.)

Each AN size number has its own standard thread size which can be seen in column three of Chart A. Again, these are the same thread sizes that have been used in aircraft and industrial applications for many years.

I think we can leave AN thread sizing now and head on to the next category which is N.P.T. (National Pipe Threads). National Pipe Threads are the next most popular thread size used in "Competition Plumbing". Low and behold we can actually find a resemblance between the size call outs and the I.D. (inside diameter) of the fitting as shown in Chart B.

Some of the most popular adapter fittings shown in our catalog are AN to NPT adapters. While many variations are offered, column four in Chart B shows which AN size corresponds to each NPT size when inside diameters (flow dimensions) are considered.

All Earl's Swivel-Seal™ hose ends are designed to provide little or no restriction when used with the corresponding AN fitting size.

We also offer a number of metric and British Standard Pipe threads to AN fitting adapters. These are special purpose pieces, however, and are available only by special request.

CHART "A"

| AN SIZE | METAL TUBE O.D. | THREAD SIZE |
|---------|-----------------|---------------|
| 2 | 1/8 | 5/16-24 SAE |
| 3 | 3/16 | 3/8-24 SAE |
| 4 | 1/4 | 7/16-20 SAE |
| 5 | 5/16 | 1/2-20 SAE |
| 6 | 3/8 | 9/16-18 SAE |
| 8 | 1/2 | 3/4-16 SAE |
| 10 | 5/8 | 7/8-14 SAE |
| 12 | 3/4 | 1-1/16-12 SAE |
| 16 | 1 | 1-5/16-12 SAE |
| 20 | 1-1/4 | 1-5/8-12 SAE |
| 24 | 1-1/2 | 1-7/8-12 SAE |
| 28 | 1-3/4 | 2-1/4-12 SAE |
| 32 | 2 | 2-1/2-12 SAE |

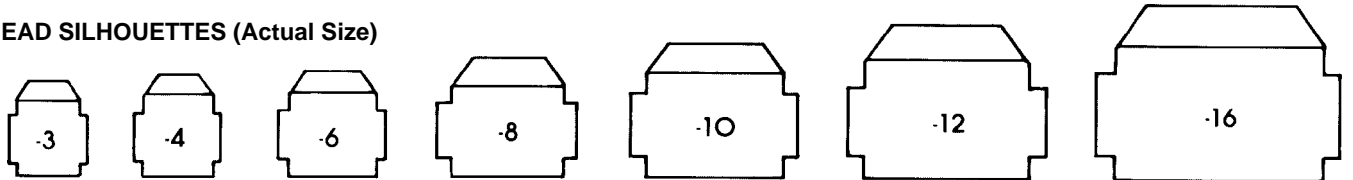
CHART "B"

| PIPE THREAD SIZE | THREADS PER INCH | THEORETICAL I.D. OF FITTING | CLOSEST AN FITTING SIZE |
|------------------|------------------|-----------------------------|-------------------------|
| 1/16" | 27 | 1/16" | |
| 1/8" | 27 | 1/8" | 4 |
| 1/4" | 18 | 1/4" | 6 |
| 3/8" | 18 | 3/8" | 8 |
| 1/2" | 14 | 1/2" | 10 |
| 3/4" | 14 | 3/4" | 12 |
| 1" | 11-1/2 | 1" | 16 |
| 1-1/4" | 11-1/2 | 1-1/4" | 20 |
| 1-1/2" | 11-1/2 | 1-1/2" | 24 |
| 2" | 11-1/2 | 2" | 32 |

EARL'S Performance Products offers a larger variety to make your selection from than any other plumbing manufacturer.

| EARL'S LINE: Size -6 Over 40 Varieties | BRAND "X": Size -6 Just 5 Choices | BRAND "Y": Size -6 Just 6 Choices |
|--|-----------------------------------|-----------------------------------|
| | | |

MALE AN THREAD SILHOUETTES (Actual Size)



MALE PIPE THREAD SILHOUETTES (Actual Size)

