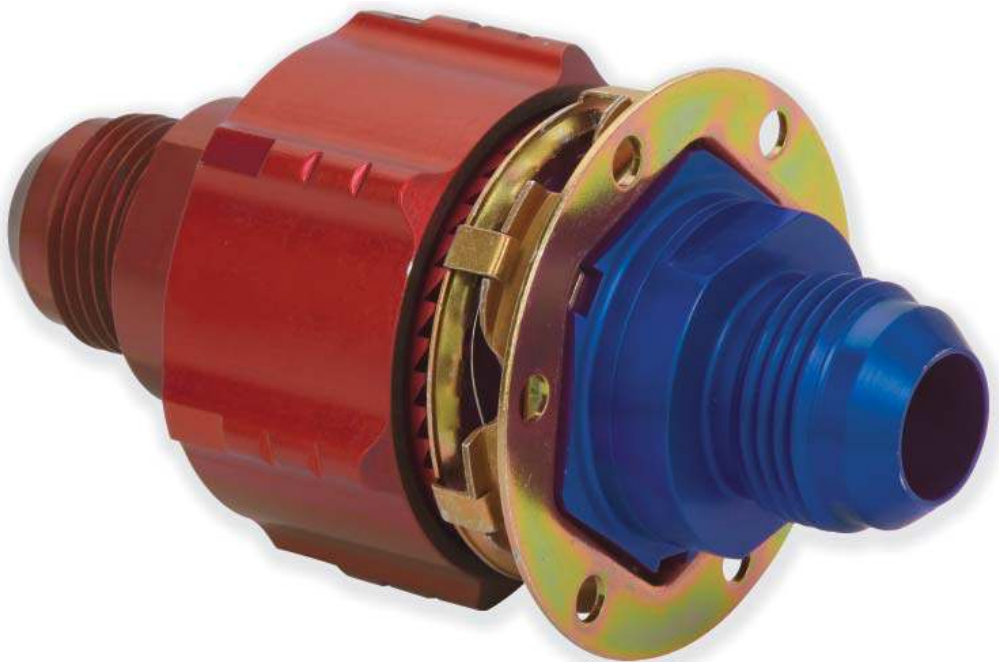


Aeroquip® Brand
145/155 Series Hydraulic Self Sealing Coupling

Fully interchangeable with all fielded Eaton's Aeroquip brand 145/155 Series Couplings and is the only approved coupling to SAE AS5440



Powering Business Worldwide

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FAILURE OR IMPROPER SELECTION, USE, OR ASSEMBLY OF THE PRODUCTS AND COMPONENTS FOR APPLICATIONS DESCRIBED HEREIN CAN RESULT IN POSSIBLE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

This document and any other related information from Eaton's Aeroquip brands or its affiliates and authorized distributors, provide product options for consideration by

Users having technical expertise with these products. Due to the wide variety of applications and operating conditions for these products and components, the User is solely responsible for making the final selection of the products and ensuring that all performance, safety and warning requirements for the User's intended application are met. Eaton's Aeroquip recommends that Eaton's Aeroquip brand

hose, fittings or assembly equipment must be used only with other Eaton's Aeroquip brand hose, fittings or assembly equipment, and Eaton Aeroquip and/or its affiliates disclaim any obligation or liability (including all incidental and consequential damages) to the extent Eaton's Aeroquip brand hose, fittings or assembly equipment is used with any other manufacturer's hose, fittings or assembly equipment or in the event that

Eaton's Aeroquip brand recommended processes and product instructions for hose assemblies are not followed. The products described herein, including product features, specifications, designs, and availability are subject to change at any time without notice.

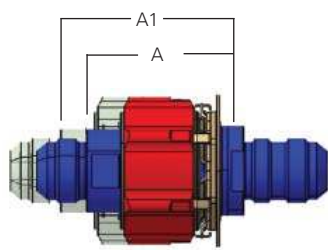
Aircraft and Ground Service Quick Disconnects . . . in accordance with MIL-C-5502 and the only Quick Disconnect approved to SAE AS5440 for Type II (-65°F to + 275°F) Hydraulic System use.

Eaton's Aeroquip brand 145-155 Series Coupling has long been the standard for ground service quick disconnects for virtually all U.S. Military aircraft. Its dependability has been proven with over 60 years of excellent service history. During this time of service, Eaton has continuously improved the design to increase its reliability, safety and ease of operation.

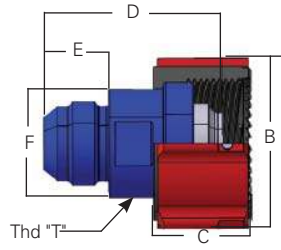
All coupling quick disconnects meet the performance requirements of **MIL-DTL-25427B** for the pressure ratings listed in this bulletin.



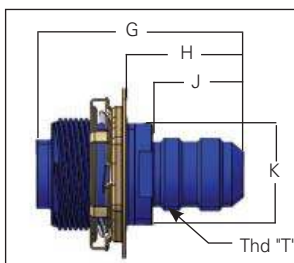
145/155 Series Self Sealing Coupling



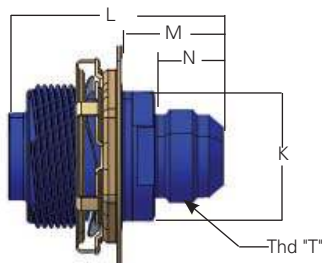
Coupling Dimensions
(Style I shown)



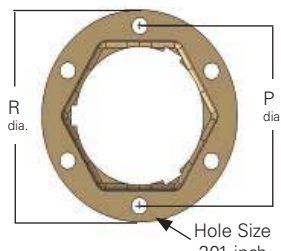
Female/Hose Attaching Half
(Style I&II shown)



Male/Bulkhead Mounting Half
(Style I shown)



Male/Bulkhead Mounting Half
(Style II shown)



Male/Bulkhead Mounting Flange

End Fitting by Style

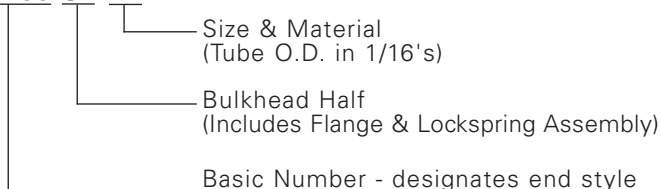
| | | Female | Male |
|------------------|-----------|---------|---------|
| Flared | Style I | AS4395 | AS4396 |
| | Style II | AS4395 | AS4395 |
| Flareless | Style III | AS33514 | AS33515 |
| | Style IV | AS33514 | AS33514 |

Dimensions shown are the same for MIL-H-83282 and Skydrol applications.
Dimensions shown in inches/mm.

| Tube End Size | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Operating Pressure (psig) | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 1000 | 1000 |
| A | 2.03/52 | 1.90/48 | 2.09/53 | 2.09/53 | 2.93/74 | 2.76/70 | 3.61/92 | 3.00/76 | 2.83/72 |
| A1 | 3.02/77 | 2.89/73 | 3.21/82 | 3.21/82 | 3.94/100 | 3.77/96 | 4.26/108 | 3.90/99 | 4.01/102 |
| B | 1.57/40 | 1.57/40 | 1.78/45 | 1.78/45 | 2.43/62 | 2.43/62 | 2.71/69 | 3.13/80 | 3.42/87 |
| C | 0.93/24 | 0.93/24 | 1.07/27 | 1.07/27 | 1.31/33 | 1.31/33 | 1.55/39 | 1.12/28 | 1.24/31 |
| D, STYLE I & II | 1.61/41 | 1.48/38 | 1.79/45 | 1.90/48 | 2.47/63 | 2.40/61 | 2.60/66 | 2.49/63 | 2.70/69 |
| D, STYLE III & IV | 1.61/41 | 1.48/36 | 1.79/45 | 1.90/48 | 2.33/59 | 2.23/57 | 2.55/65 | 2.51/64 | 2.70/69 |
| E, STYLE I & II | 0.55/14 | 0.55/14 | 0.56/14 | 0.66/17 | 0.76/19 | 0.86/22 | 0.91/23 | 0.96/24 | 1.08/27 |
| E, STYLE III & IV | 0.55/14 | 0.55/14 | 0.55/14 | 0.65/17 | 0.62/16 | 0.69/18 | 0.69/18 | 0.69/18 | 0.69/18 |
| F | 0.74/19 | 0.74/19 | 0.95/24 | 0.95/24 | 1.37/35 | 1.37/35 | 1.62/41 | 1.87/47 | 2.13/54 |
| G, STYLE I | 2.16/55 | 2.16/55 | 2.54/65 | 2.72/69 | 3.10/79 | 3.29/84 | 3.49/88 | 3.33/85 | 3.45/88 |
| G, STYLE III | 2.19/56 | 2.19/56 | 2.53/64 | 2.67/68 | 3.11/79 | 3.22/82 | 3.41/87 | 3.21/82 | 3.31/84 |
| H, STYLE I | 1.10/28 | 1.10/28 | 1.30/33 | 1.48/38 | 1.67/42 | 1.86/47 | 1.79/45 | 1.83/46 | 1.82/46 |
| H, STYLE III | 1.13/29 | 1.13/29 | 1.29/33 | 1.43/36 | 1.68/43 | 1.79/45 | 1.71/43 | 1.71/43 | 1.68/43 |
| J, STYLE I | 0.91/23 | 0.91/23 | 0.99/25 | 1.17/30 | 1.26/32 | 1.45/37 | 1.45/37 | 1.50/38 | 1.52/39 |
| J, STYLE III | 0.94/24 | 0.94/24 | 0.98/25 | 1.12/28 | 1.27/32 | 1.38/35 | 1.37/35 | 1.38/35 | 1.38/35 |
| K | 0.80/20 | 0.80/20 | 1.03/26 | 1.03/26 | 1.47/37 | 1.47/37 | 1.74/44 | 1.99/51 | 2.25/57 |
| L, STYLE II | 1.80/46 | 1.80/46 | 2.10/53 | 2.20/56 | 2.60/66 | 2.70/69 | 2.95/75 | 2.79/71 | 3.01/76 |
| L, STYLE IV | 1.71/43 | 1.71/43 | 2.02/51 | 2.11/54 | 2.47/63 | 2.53/64 | 2.73/69 | 3.04/77 | 3.09/78 |
| M, STYLE II | 0.74/19 | 0.74/19 | 0.85/22 | 0.96/24 | 1.17/30 | 1.28/33 | 1.25/32 | 1.29/33 | 1.11/28 |
| M, STYLE IV | 0.67/17 | 0.67/17 | 0.79/20 | 0.87/22 | 1.04/26 | 1.03/26 | 1.03/26 | 1.19/30 | 1.45/37 |
| N, STYLE II | 0.55/14 | 0.55/14 | 0.55/14 | 0.65/17 | 0.76/19 | 0.86/22 | 0.91/23 | 0.96/24 | 1.08/27 |
| N, STYLE IV | 0.45/12 | 0.45/12 | 0.47/12 | 0.56/14 | 0.63/16 | 0.69/18 | 0.69/18 | 0.69/18 | 0.68/17 |
| P | 1.44/37 | 1.44/37 | 1.69/43 | 1.69/43 | 2.13/54 | 2.13/54 | 2.38/60 | 2.63/69 | 2.88/73 |
| R | 1.81/46 | 1.81/46 | 2.01/51 | 2.01/51 | 2.50/64 | 2.50/64 | 2.75/70 | 3.00/76 | 3.25/83 |
| Thread T | .4375-20 | .500-20 | .0625-18 | .750-16 | .875-14 | 1.0625-12 | 1.3125-12 | 1.625-12 | 1.875-12 |
| Wt (lbs/kg) Style I | 0.261/.118 | 0.259/.117 | 0.399/.181 | 0.409/.185 | 0.894/.405 | 0.922/.418 | 1.278/.579 | 1.418/.643 | 1.659/.752 |
| Wt (lbs/kg) Style II | 0.258/.117 | 0.255/.115 | 0.393/.178 | 0.386/.175 | 0.882/.400 | 0.889/.403 | 1.241/.562 | 1.362/.617 | 1.578/.715 |
| Wt (lbs/kg) Style III | 0.261/.118 | 0.259/.117 | 0.399/.181 | 0.404/.183 | 0.894/.405 | 0.909/.412 | 1.246/.565 | 1.449/.657 | 1.592/.722 |
| Wt (lbs/kg) Style IV | 0.257/.116 | 0.253/.114 | 0.390/.176 | 0.389/.176 | 0.876/.397 | 0.878/.398 | 1.200/.544 | 1.375/.623 | 1.517/.688 |

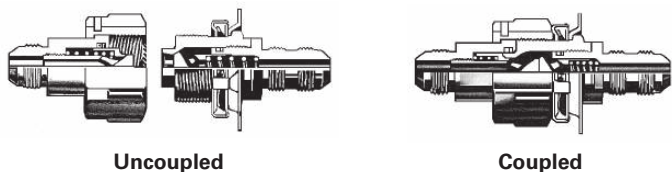
Example For Ordering

TB155-S4-4D



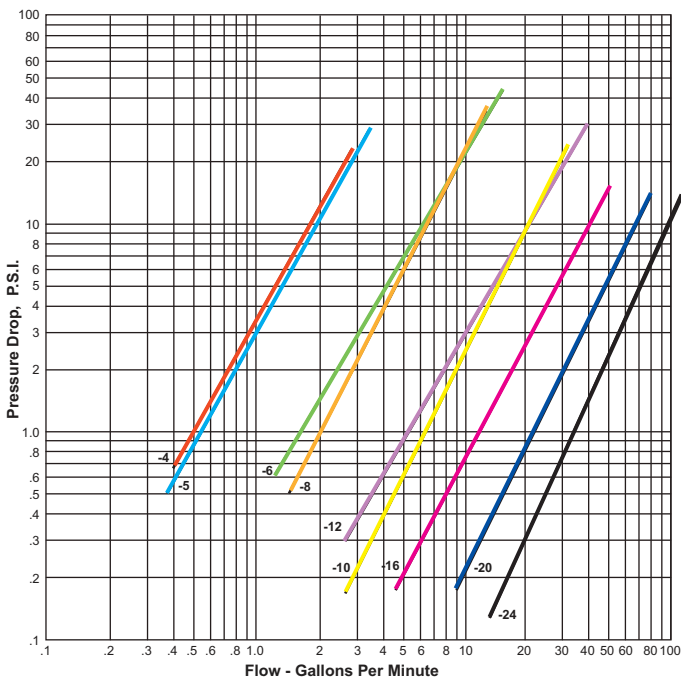
Principles of Operation

The 145/155 series couplings incorporating quick-lead blunt start threads are connected/disconnected by hand with a simple turning motion. During connection, ratchet teeth on the inner sleeve of the union nut engage a unique lock spring assembly assuring positive locking event under extreme vibration. The lock is automatically released during disconnection.



Pressure Loss vs. Flow (MIL-PRF-5606)

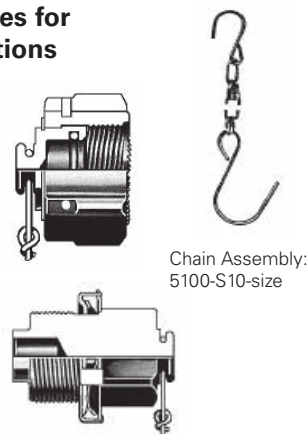
To find the pressure loss for a given coupling size at a given flow rate, 1) find flow rate at the bottom of the chart and read up until the line intersects the curve for the coupling size in questions, or 2) read across to find the pressure loss.



Dust Cap and Plug Assemblies for Red Oil and Skydrol Applications

Union nut, lock springs, flange, dust plug and dust cap size 5 is used on coupling half sizes 4 and 5; size 8 on coupling half sizes 6 and 8; and size 12 on coupling half sizes 10 and 12.

Chain size 5 is used on dust cap size 5 only; Chain size 8 is used on plug sizes 5, 8 and 12 and cap sizes 8 and 12; Chain size 12 is used on cap and plug sizes 16, 20, and 24.



Dust Caps

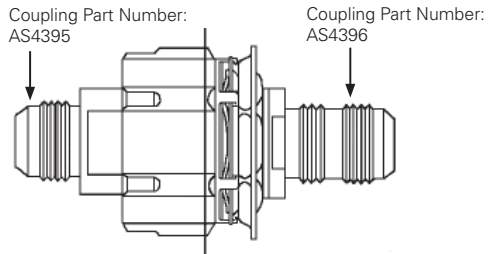
| Size | Hydraulic | Skydrol |
|--------|-----------|--------------|
| -4-5 | 155S7-5D | 015567S7-5D |
| -6-8 | 155S7-8D | 015567S7-8D |
| -10-12 | 155S7-12D | 015567S7-12D |
| -16 | 155S7-16D | 015567S7-16D |
| -20 | 145S7-20D | 015567S7-20D |
| -24 | 145S7-24D | 015567S7-24D |

Dust Plugs

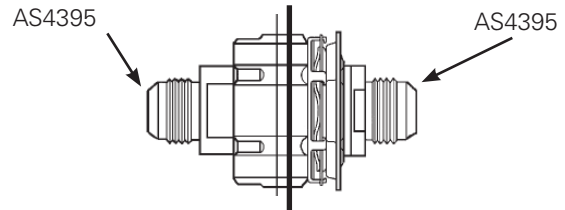
| Size | Hydraulic | Skydrol |
|--------|-----------|--------------|
| -4-5 | 155S9-5D | 015567S9-5D |
| -6-8 | 155S9-8D | 015567S9-8D |
| -10-12 | 155S9-12D | 015567S9-12D |
| -16 | 155S9-16D | 015567S9-16D |
| -20 | 145S9-20D | 014567S9-20D |
| -24 | 145S9-24D | 014567S9-24D |

145/155 Series Self Sealing Coupling — Styles I & II

STYLE I



Style II



STYLE I — MIL-H-5606/MIL-H-83282

| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 155S5-4D | TB155S4-4D |
| -5 | 155S5-5D | TB155S4-5D |
| -6 | 155S5-6D | TB155S4-6D |
| -8 | 155S5-8D | TB155S4-8D |
| -10 | 155S5-10D | TA155S4-10D |
| -12 | 155S5-12D | TA155S4-12D |
| -16 | 155S5-16D | TA155S4-16D |
| -20 | 145S5-20D | B145S4-20D |
| -24 | 145S5-24D | B145S4-24D |

STYLE II MIL-H-5606/MIL-H-83282

| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 155S5-4D | TB015519S4-4D |
| -5 | 155S5-5D | TB015519S4-5D |
| -6 | 155S5-6D | TB015519S4-6D |
| -8 | 155S5-8D | TB015519S4-8D |
| -10 | 155S5-10D | T015519S4-10D |
| -12 | 155S5-12D | T015519S4-12D |
| -16 | 155S5-16D | 015519S4-16D |
| -20 | 145S5-20D | 014519S4-20D |
| -24 | 145S5-24D | 014519S4-24D |

STYLE I PHOSPHATE ESTER

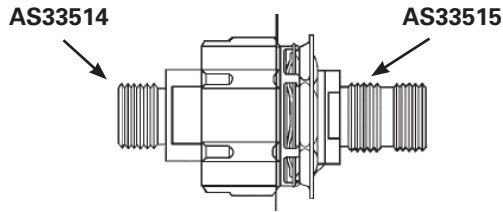
| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 015567S5-4D | 015567S4-4D |
| -5 | 015567S5-5D | 015567S4-5D |
| -6 | 015567S5-6D | 015567S4-6D |
| -8 | 015567S5-8D | 015567S4-8D |
| -10 | 015567S5-10D | 015567S4-10D |
| -12 | 015567S5-12D | 015567S4-12D |
| -16 | 015567S5-16D | 015567S4-16D |
| -20 | 014567S5-20D | 014503S4-20D |
| -24 | 014567S5-24D | 014503S4-24D |

STYLE II PHOSPHATE ESTER

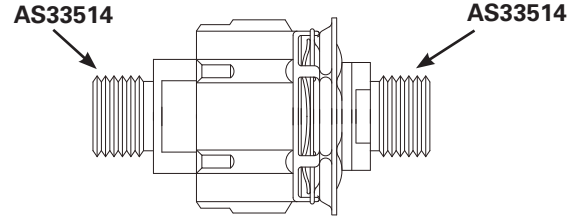
| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 015567S5-4D | 015614S4-4D |
| -5 | 015567S5-5D | 015614S4-5D |
| -6 | 015567S5-6D | 015614S4-6D |
| -8 | 015567S5-8D | 015614S4-8D |
| -10 | 015567S5-10D | 015614S4-10D |
| -12 | 015567S5-12D | 015614S4-12D |
| -16 | 015567S5-16D | 015614S4-16D |
| -20 | 014567S5-20D | 014614S4-20D |
| -24 | 014567S5-24D | 014614S4-24D |

145/155 Series Self Sealing Coupling — Style III & IV

Style III



Style IV



STYLE III MIL-H-5606/MIL-H-83282

| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 3065S5-4D | TB3005S4-4D |
| -5 | 3065S5-5D | TB3005S4-5D |
| -6 | 3065S5-6D | TB3005S4-6D |
| -8 | 3065S5-8D | TB3005S4-8D |
| -10 | 3065S5-10D | B3005S4-10D |
| -12 | 3065S5-12D | B3005S4-12D |
| -16 | 3065S5-16D | 3070S4-16D |
| -20 | 3065S5-20D | A3005S4-20D |
| -24 | 3065-S5-24D | B3005S4-24D |

STYLE IV MIL-H-5606/MIL-H-83282

| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 3065S5-4D | 3018S4-4D |
| -5 | 3065S5-5D | 3018S4-5D |
| -6 | 3065S5-6D | 3018S4-6D |
| -8 | 3065S5-8D | 3018S4-8D |
| -10 | 3065S5-10D | 3018S4-10D |
| -12 | 3065S5-12D | 3018S4-12D |
| -16 | 3065S5-16D | 3018S4-16D |
| -20 | 3065S5-20D | 3018S4-20D |
| -24 | 3065S5-24D | 3018S4-24D |

STYLE III SKYDROL

| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 306503S5-4D | 300503S4-4D |
| -5 | 306503S5-5D | 300503S4-5D |
| -6 | 306503S5-6D | 300503S4-6D |
| -8 | 306503S5-8D | 300503S4-8D |
| -10 | 306503S5-10D | 300503S4-10D |
| -12 | 306503S5-12D | 300503S4-12D |
| -16 | 306503S5-16D | 300503S4-16D |
| -20 | 306503S5-20D | 300503S4-20D |
| -24 | 306503S5-24D | 300503S4-24D |

STYLE IV SKYDROL

| Size | Hose Attaching Half | Bulkhead Mounting Half |
|------|---------------------|------------------------|
| -4 | 306503S5-4D | AE98104E |
| -5 | 306503S5-5D | AE98104F |
| -6 | 306503S5-6D | AE98104G |
| -8 | 306503S5-8D | AE98104H |
| -10 | 306503S5-10D | AE98104J |
| -12 | 306503S5-12D | AE98104K |
| -16 | 306503S5-16D | AE98104M |
| -20 | 306503S5-20D | AE97028N |
| -24 | 306503S5-24D | AE97028P |

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