



- The Ultimate in Push-Pull Couplings
- Self-Seal, Self-Locking Couplings
- Automatic Pull-Home Valve Sleeve
- Tactile Locking Pins
- Vacuum to 5000 psi



Patent 6,557,824

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Ultra-Mate Couplings

Introduction

Eaton's Aeroquip Ultra-Mate couplings are a new generation of self-seal, self-locking, push-pull couplings. They allow quick and easy connection and disconnection of fuel, lube oil, coolant and hydraulic lines for civil and military aircraft as well as ground vehicle applications.

The innovative Ultra-Mate automatic pull-home valve sleeve, features a soft seal tubular valve. This valve provides leak-free operation — a critical advantage for personal and environmental safety.

Ball bearings inside the hose half coupling sleeve fit into grooves located in the mating coupling half which, in turn, mechanically pulls the sleeve toward the closed position. It effectively prevents fluid spillage and leakage due to valve sleeve sticking or binding.

Tactile locking pins “pop out” when the connector is securely mated. These locking pins, located on the outer diameter, serve as a secondary locking system. They also provide visual and tactile proof of secure couplings — a valuable asset when coupling access is restricted.

Ultra-Mate couplings are available in corrosion resistant steel, titanium, or aluminum for applications with operating pressures up to 5,000 psi (345 bar).

Ultra-Mate features include:

- A leak-free seal during connection and disconnection
- Locking pins located on the outer diameter that provide a tactile and visual confirmation of full connection and act as a secondary locking system
- A low pressure drop across the connector — up to 45% improvement over current coupling models on the market
- Minimal air inclusion during connection and disconnection
- A small envelope design
- Lighter weight — up to 36% lighter compared to previous push-pull couplings

Every Ultra-Mate coupling design and manufacture has undergone rigorous quality and performance testing. This dedication to detail and excellence is what has made the Eaton a leader in the aerospace industry.

Applications

The Ultra-Mate coupling has a zero-leakage, ultra low design for use in hydraulic, fuel, lube oil and coolant systems on a variety of civil aircraft, military aircraft and ground defense vehicles. The design of the coupling is essentially the same for all fluid applications; however, the O-ring material varies to accommodate the different fluids and their respective properties. For low-pressure applications, aluminum components are typically selected over stainless steel due to their lower cost and weight. In addition, for low-pressure systems or systems which do not experience high vibration, customers can select an Ultra-Mate coupling without tactile locking pins and consequently gain a smaller profile coupling and reduce system weight.

Design Features

The Ultra-Mate coupling is a self-sealing, self-locking coupling that allows for quick and easy connection and disconnection of fluid lines. The patented push-pull design features a positive pull-home sleeve, tactile locking pins, and a soft seal tubular valve.

The Ultra-Mate coupling has a zero-leakage, low air-inclusion and fluid loss design, which features a flat-faced valve that eliminates air trapped between the two halves during connection.

The unique one-piece design also eliminates a seal and a potential leak path found in older, two-piece designs. The use of a bonded, elastomeric seal on the hose half valve provides a more reliable, leak-free seal when compared to both metal-to-metal or PTFE seals.

The pull-home sleeve is an important design feature aimed at reducing leakage. As the user begins to disconnect the two coupling halves, small bearings mechanically pull the valve sleeve towards the closed position to seal off all fluid flow, and release the valve sleeve just before the coupling assembly is fully disconnected.

This revolutionary design has been tested in field applications and in Eaton test facilities to simulate a broad range of working environments. All sizes are qualified to SAE AS1709 and AS7413 requirements for fluid conveyance applications. Ultra-Mate couplings can operate at pressures ranging from vacuum to 5,000psi (345 bar) and temperatures ranging from -65°F to +275°F (-54°C to +135°C), giving it unsurpassed versatility for a push-pull coupling.

The Ultra-Mate coupling is available in many different end-fitting configurations, and each coupling is leak-tested after assembly to ensure quality.



Ultra-Mate couplings have been selected for the Lockheed Martin, Northrop Grumman F-16 Block 60 in the radar coolant system.



Ultra-Mate couplings have been selected for the Lockheed Martin F-35 Joint Strike Fighter for all hydraulic, fuel, and coolant applications.

Key Components

Valve

The valve is a flush face design engineered to minimize air inclusion during connection and disconnection. A bonded seal provides additional leak protection. The valve sleeve first forms a primary seal with the molded O-ring before ending in a metal-to-metal seal.

Ball Bearings

Ball bearings resting in channels in the hose half coupling's internal diameter mechanically pull the valve sleeve towards the closed position and release just before the coupling has been completely disconnected. This is a key feature, which virtually eliminates fluid loss during connection and disconnection.

Indicator

Indicator pins serve as the tactile and visual indication that the two

coupling halves are fully connected. Indicator pins also serve as a secondary locking device that must be pushed in to allow coupling disconnection. Pins are located on opposite sides of the hose half outer diameter.

Arc Latch

Eaton's Aeroquip "Arc Latch" locking design provides contact over a broad surface area. This permits low unit loading and helps prevent undue wear of the locking surface. In addition, the wider surface contact contributes to a more effective locking action and provides the coupling with greater capability to withstand high vibration-born environments.

Adapter

There are several possible end-fitting configurations based on application and customer specification.

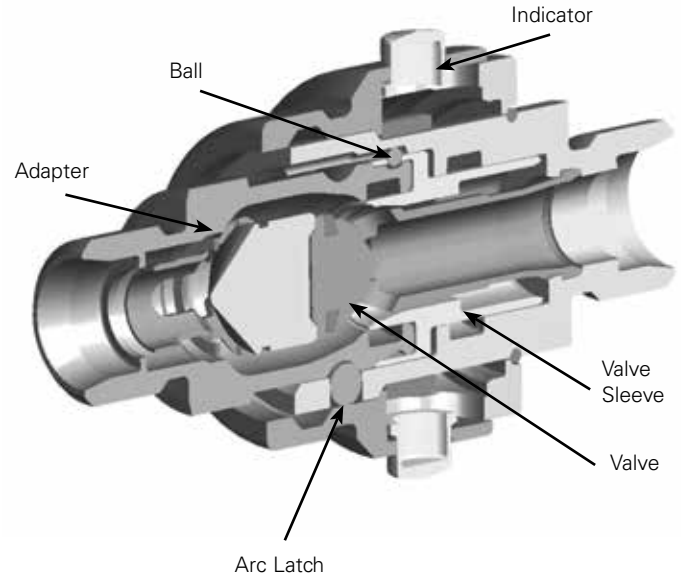
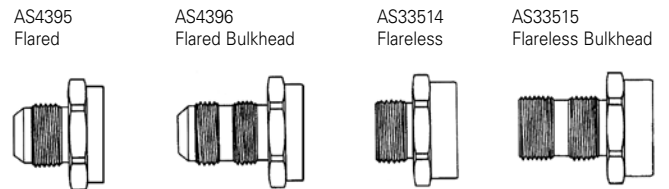


Table: Letter Code & Tube Size

Dash Size	-4	-6	-8	-10	-12	-16
Tube Size (in)	1/4	3/8	1/2	5/8	3/4	1
Letter Code	E	G	H	J	K	M



*Arcseal™ end-fitting style also available

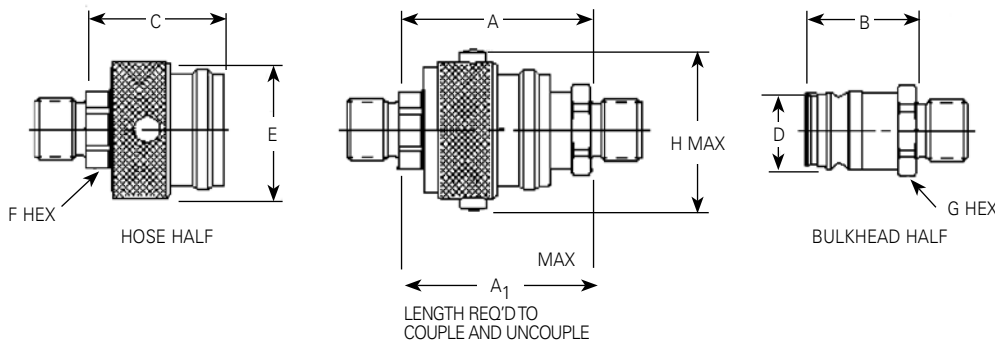


Table: Coupling Dimensions

Dash Size	"A" DIM (IN)	"A1" MAX (IN)	"B" DIM (IN)	"C" DIM (IN)	"D" DIM (IN)	"E" DIM (IN)	"F" HEX (IN)	"G" HEX (IN)	"H" MAX (IN)
-4	1.695	2.150	1.015	1.120	0.552	1.050	0.438	0.625	1.240
-6	1.770	2.310	1.030	1.269	0.687	1.250	0.625	0.750	1.460
-8	2.000	2.530	1.100	1.418	0.843	1.400	0.750	0.938	1.620
-10	2.280	2.820	1.310	1.620	1.048	1.600	0.938	1.063	1.790
-12	2.600	3.400	1.490	1.893	1.227	1.760	1.063	1.313	1.980
-16	3.000	3.910	1.765	2.130	1.493	2.140	1.375	1.563	2.360

Basic Operation and Technical Data

The Ultra-Mate coupling, when connected, allows fluid to flow freely from one half to the other. It can provide power or can transfer resources such as coolant or fuel safely and efficiently throughout a system.

The design of the Ultra-Mate coupling allows for easy connection and disconnection using only one hand. To connect, simply push the two mating halves together until they click. Both the "clicking" sound as well as the visual and tangible presence of the indicator pins signal that the coupling is secure.

To disconnect the Ultra-Mate coupling halves, depress the locking pins and pull straight back. Pulling back on the outer sleeve during disconnection will also aid in this process.



Reliability

Each coupling has been tested at Eaton's state-of-the-art facility. These tests have been designed to simulate all possible working conditions to certify the superior performance of the couplings. The Ultra-Mate couplings have been tested to meet or exceed SAE AS1709 specifications for hydraulic push-pull couplings and AS7413 for fuel push-pull couplings. These requirements include:

- Ability to operate within a temperature range of -65°F (-54°C) to +275°F (135°C).
- Capable of enduring 200 connect/disconnect cycles without evidence of malfunction, leakage or damage.
- Ability to tolerate a one-minute proof pressure test equal to 150% of the perating pressure and a burst test equal to 250% of the rated operating pressure without rupture or loss of fluid.
- Ability to withstand a 20g impact test without indication of disconnection, leakage or malfunction.

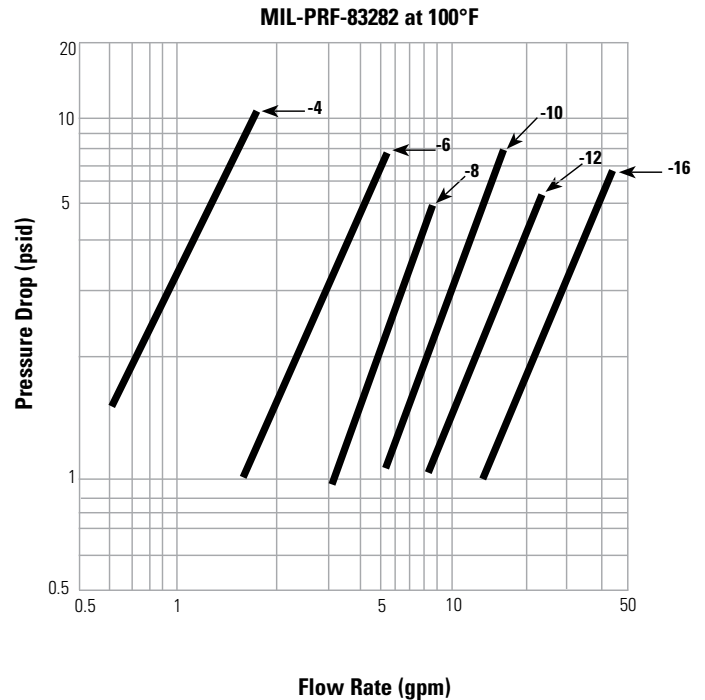


As the user begins to disconnect the two coupling halves, the small bearings mechanically pull the valve sleeve towards the closed position. This feature virtually eliminates the common problem of valves sticking in the open position.



Once the two coupling halves have been disconnected, the tactile locking pins will lie flush with the outer diameter of the coupling. This indicates that the coupling is no longer securely coupled.

Ultra-Mate Pressure Drop Curves



Flow Coefficient (C_v Factor)

(Flow rate in GPM of water 60°F (15.5°C) with psig pressure drop)

Size	-4	-6	-8	-10	-12	-16
C _v	0.53	1.6	4.1	6.2	10.3	15.9

Ultra-Mate Bulletin Weights

Weight - Aluminum (1,500 psig) AS4395 Ends

Dash Size	Bulkhead Half (lbs)	Hose Half (lbs)
-4	.022	.057
-6	.035	.098
-8	.054	.143
-10	.092	.232
-12	.134	.290
-16	.206	.454

Weight - Cres (5,000 psig) AS4395 Ends

Dash Size	Bulkhead Half (lbs)	Hose Half (lbs)
-4	.055	.113
-6	.087	.180
-8	.131	.278
-10	.225	.439
-12	.348	.634
-16	.527	1.033

Weight - Titanium (4,000 psig) AS4207B Arcseal™ Ends

Dash Size	Bulkhead Half (lbs)	Hose Half (lbs)
-4	.031	.090
-6	.049	.140
-8	.067	.204
-10	.119	.296
-12	.176	.439
-16	.296	.725

Weight and Performance Characteristics

Eaton's Ultra-Mate couplings have been developed to deliver unsurpassed value to every specific application to which it is used. Every coupling is subjected to 100% inspection for critical dimensions as well as leakage and performance. Eaton's statistical process control procedures track these measures, ensuring that quality is part of every step.

Materials

High Pressure Series

Primary Component Material:

Stainless Steel (consult Eaton for Titanium) Media: MIL-PRF-83282 Oil, and Phosphate Ester Base Fluids (Skydrol®)

Packings: Nitrile, EPR

Temperature Range*: -65°F (-54°C) to +275°F (135°C)

Operating Pressure: 5,000psi (345 bar)

Proof Pressure: 7,500psi (517 bar)

Burst Pressure (min): 12,500psi (862 bar)

Low Pressure Series

Primary Component Material: Aluminum

Media: Fuel, MIL-PRF-83282 Oil, Phosphate Ester Base Fluids (Skydrol), PAO

Packings: Nitrile, EPR, Fluorosilicone, Fluorocarbon

Temperature Range*: -65°F (-54°C) to +275°F (135°C)

Operating Pressure: 1,500psi (103 bar)

Proof Pressure: 2,250psi (155 bar)

Minimum Burst Pressure (min): 3,750psi (258 bar)

*With appropriate change in materials and packings, coupling may be adapted to a wide range of fluids and temperatures.

Part Numbers

Eaton is dedicated to helping you choose the right coupling and the best materials for the intended application. Our technical service representatives can assist you in part selection. This catalog features standard coupling models; however, Eaton will provide custom designed couplings upon request.

High Pressure 5,000 psi Series Coupling Part Numbers

Coupling Halves, Bulkhead

AS33514 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73535E	AE73609E
-6	AE73535G	AE73609G
-8	AE73535H	AE73609H
-10	AE73535J	AE73609J
-12	AE73535K	AE73609K
-16	AE73535M	AE73609M

AS4395 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73611E	AE73613E
-6	AE73611G	AE73613G
-8	AE73611H	AE73613H
-10	AE73611J	AE73613J
-12	AE73611K	AE73613K
-16	AE73611M	AE73613M

AS4207B (Arcseal™) Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73615E	AE73617E
-6	AE73615G	AE73617G
-8	AE73615H	AE73617H
-10	AE73615J	AE73617J
-12	AE73615K	AE73617K
-16	AE73615M	AE73617M

AS33515 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73619E	AE73620E
-6	AE73619G	AE73620G
-8	AE73619H	AE73620H
-10	AE73619J	AE73620J
-12	AE73619K	AE73620K
-16	AE73619M	AE73620M

AS4396 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73621E	AE73622E
-6	AE73621G	AE73622G
-8	AE73621H	AE73622H
-10	AE73621J	AE73622J
-12	AE73621K	AE73622K
-16	AE73621M	AE73622M

AS4208B (Arcseal™) Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73623E	AE73624E
-6	AE73623G	AE73624G
-8	AE73623H	AE73624H
-10	AE73623J	AE73624J
-12	AE73623K	AE73624K
-16	AE73623M	AE73624M

High Pressure 5,000 psi Series Coupling Part Numbers

Coupling Halves, Hose Attaching

With Tactile/Locking Pins (Not for O'Ring Use)

AS33514 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73534E	AE73610E
-6	AE73534G	AE73610G
-8	AE73534H	AE73610H
-10	AE73534J	AE73610J
-12	AE73534K	AE73610K
-16	AE73534M	AE73610M

AS4395 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73612E	AE73614E
-6	AE73612G	AE73614G
-8	AE73612H	AE73614H
-10	AE73612J	AE73614J
-12	AE73612K	AE73614K
-16	AE73612M	AE73614M

AS4207B (Arcseal™) Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73616E	AE73618E
-6	AE73616G	AE73618G
-8	AE73616H	AE73618H
-10	AE73616J	AE73618J
-12	AE73616K	AE73618K
-16	AE73616M	AE73617M

With Visual Indicator Only (For O'Ring Use)

AS33514 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73625E	AE73626E
-6	AE73625G	AE73626G
-8	AE73625H	AE73626H
-10	AE73625J	AE73626J
-12	AE73625K	AE73626K
-16	AE73625M	AE73626M

AS4395 Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73627E	AE73628E
-6	AE73627G	AE73628G
-8	AE73627H	AE73628H
-10	AE73627J	AE73628J
-12	AE73627K	AE73628K
-16	AE73627M	AE73628M

AS4207B (Arcseal™) Ends Fluid

Size	MIL-PRF-83282 Oil	Skydrol
-4	AE73629E	AE73630E
-6	AE73629G	AE73630G
-8	AE73629H	AE73630H
-10	AE73629J	AE73630J
-12	AE73629K	AE73630K
-16	AE73629M	AE73630M

Low Pressure 1,500 psi Series Coupling Part Numbers (Fuel QD's 90 psi)

Coupling Halves, Bulkhead

AS33514 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73639E	AE73641E	AE74534E	AE74542E
-6	AE73639G	AE73641G	AE74534G	AE74542G
-8	AE73639H	AE73641H	AE74534H	AE74542H
-10	AE73639J	AE73641J	AE74534J	AE74542J
-12	AE73639K	AE73641K	AE74534K	AE74542K
-16	AE73639M	AE73641M	AE74534M	AE74542M
-24	AE73639P			

AS4395 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73643E	AE73645E	AE75246E	AE75247E
-6	AE73643G	AE73645G	AE75246G	AE75247G
-8	AE73643H	AE73645H	AE75246H	AE75247H
-10	AE73643J	AE73645J	AE75246J	AE75247J
-12	AE73643K	AE73645K	AE75246K	AE75247K
-16	AE73643M	AE73645M	AE75246M	AE75247M

AS33515 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73651E	AE73652E	AE74540E	AE74548E
-6	AE73651G	AE73652G	AE74540G	AE74548G
-8	AE73651H	AE73652H	AE74540H	AE74548H
-10	AE73651J	AE73652J	AE74540J	AE74548J
-12	AE73651K	AE73652K	AE74540K	AE74548K
-16	AE73651M	AE73652M	AE74540M	AE74548M

AS4396 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73653E	AE73654E	AE74541E	AE74549E
-6	AE73653G	AE73654G	AE74541G	AE74549G
-8	AE73653H	AE73654H	AE74541H	AE74549H
-10	AE73653J	AE73654J	AE74541J	AE74549J
-12	AE73653K	AE73654K	AE74541K	AE74549K
-16	AE73653M	AE73654M	AE74541M	AE74549M

Low Pressure 1,500 psi Series Coupling Part Numbers (Fuel QD's 90 psi)
Coupling Halves, Hose Attaching

With Tactile Indicator Pins (Not for O'Ring Use)

AS33514 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73640E	AE73642E	AE74536E	AE74544E
-6	AE73640G	AE73642G	AE74536G	AE74544G
-8	AE73640H	AE73642H	AE74536H	AE74544H
-10	AE73640J	AE73642J	AE74536J	AE74544J
-12	AE73640K	AE73642K	AE74536K	AE74544K
-16	AE73640M	AE73642M	AE74536M	AE74544M
-24	AE73640P			

AS4395 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73644E	AE73646E	AE74539E	AE74547E
-6	AE73644G	AE73646G	AE74539G	AE74547G
-8	AE73644H	AE73646H	AE74539H	AE74547H
-10	AE73644J	AE73646J	AE74539J	AE74547J
-12	AE73644K	AE73646K	AE74539K	AE74547K
-16	AE73644M	AE73646M	AE74539M	AE74547M

With visual indicator only. (For O'Ring Use)

AS33514 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73647E	AE73648E	AE74535E	AE74543E
-6	AE73647G	AE73648G	AE74535G	AE74543G
-8	AE73647H	AE73648H	AE74535H	AE74543H
-10	AE73647J	AE73648J	AE74535J	AE74543J
-12	AE73647K	AE73648K	AE74535K	AE74543K
-16	AE73647M	AE73648M	AE74535M	AE74543M

AS4395 Ends Fluid

Size	MIL-PRF-83282 Oil	Phosphate Ester	MIL-PRF-87252	Fuel
-4	AE73649E	AE73650E	AE75244E	AE75245E
-6	AE73649G	AE73650G	AE75244G	AE75245G
-8	AE73649H	AE73650H	AE75244H	AE75245H
-10	AE73649J	AE73650J	AE75244J	AE75245J
-12	AE73649K	AE73650K	AE75244K	AE75245K
-16	AE73649M	AE73650M	AE75244M	AE75245M

The user should carefully observe the precautions listed in this catalog or brochure, including the recommendations on the selection of couplings on the relevant pages and the pages on fluid compatibility. Maximum application operating pressure should not exceed operating pressure listed.

⚠ WARNING:

Application considerations must be observed in selecting appropriate components for the application of these products contained herein. The failure to follow the recommendations set forth in this catalog may result in an unstable application, which may result in serious personal injury or property damage.

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Dust Caps & Plugs



Metal Dust Cap



Metal Dust Plug

Metal Dust Caps (Protection Against Dust & Moisture Only)

Size	Material	MIL-PRF-83282	"Phosphate-Ester (Skydrol)"	"MIL-PRF-87252 (PAO)"	EGW/PGW	FUEL
-4	Aluminum	AE74725E	AE73743E	AE73742E	AE77425E	AE75383E
	CRES	AE73738E	AE73739E	NA	NA	NA
-6	Aluminum	AE74725G	AE73743G	AE73742G	AE77425G	AE75383G
	CRES	AE73738G	AE73739G	NA	NA	NA
-8	Aluminum	AE74725H	AE73743H	AE73742H	AE77425H	AE75383H
	CRES	AE73738H	AE73739H	NA	NA	NA
-10	Aluminum	AE74725J	AE73743J	AE73742J	AE77425J	AE75383J
	CRES	AE73738J	AE73739J	NA	NA	NA
-12	Aluminum	AE74725K	AE73743K	AE73742K	AE77425K	AE75383K
	CRES	AE73738K	AE73739K	NA	NA	NA
-16	Aluminum	AE74725M	AE73743M	AE73742M	AE77425M	AE75383M
	CRES	AE73738M	AE73739M	NA	NA	NA

Metal Plugs, Pressure Sealing

Size	Material	MIL-PRF-83282	"Phosphate-Ester (Skydrol)"	"MIL-PRF-87252 (PAO)"	EGW/PGW	FUEL
-4	Aluminum	AE73736E	AE73737E	AE75936E	AE77426E	AE75955E
	CRES	AE73733E	AE73734E	NA	NA	NA
-6	Aluminum	AE73736G	AE73737G	AE75936G	AE77426G	AE75955G
	CRES	AE73733G	AE73734G	NA	NA	NA
-8	Aluminum	AE73736H	AE73737H	AE75936H	AE77426H	AE75955H
	CRES	AE73733H	AE73734H	NA	NA	NA
-10	Aluminum	AE73736J	AE73737J	AE75936J	AE77426J	AE75955J
	CRES	AE73733J	AE73734J	NA	NA	NA
-12	Aluminum	AE73736K	AE73737K	AE75936K	AE77426K	AE75955K
	CRES	AE73733K	AE73734K	NA	NA	NA
-16	Aluminum	AE73736M	AE73737M	AE75936M	AE77426M	AE75955M
	CRES	AE73733M	AE73734M	NA	NA	NA



Rubber Dust Cap (Male QD)



Rubber Dust Cap (Female QD)

Rubber Caps, For use with Male QD's (Protection Against Dust & Moisture Only)

Size	MIL-PRF-83282	"Phosphate-Ester (Skydrol)"	"MIL-PRF-87252 (PA0)"	EGW/PGW	FUEL
-4	AE73744E	AE73745E	AE73744E	AE77429E	NA
-6	AE73744G	AE73745G	AE73744G	AE77429G	NA
-8	AE73744H	AE73745H	AE73744H	AE77429H	NA
-10	AE73744J	AE73745J	AE73744J	AE77429J	NA
-12	AE73744K	AE73745K	AE73744K	AE77429K	NA
-16	AE73744M	AE73745M	AE73744M	AE77429M	NA

Rubber Caps, For use with Female QD's (Protection Against Dust & Moisture Only)

Size	MIL-PRF-83282	"Phosphate-Ester (Skydrol)"	"MIL-PRF-87252 (PA0)"	EGW/PGW	FUEL
-4	AE73740E	AE73741E	AE73740E	AE77428E	NA
-6	AE73740G	AE73741G	AE73740G	AE77428G	NA
-8	AE73740H	AE73741H	AE73740H	AE77428H	NA
-10	AE73740J	AE73741J	AE73740J	AE77428J	NA
-12	AE73740K	AE73741K	AE73740K	AE77428K	NA
-16	AE73740M	AE73741M	AE73740M	AE77428M	NA

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