

BACKGROUND

In 2002, the out-dated MIL-F-3541 Military Standard, which had been in service for over 50 years, was replaced by the SAE AS35411 Aerospace Specification. The new standard is now accepted as the primary standard for Military and Aerospace grease fittings. Certified documentation of the grease fittings manufactured to the Aerospace Standard (AS) are approved for use on aircraft, ground vehicles and surface vessels. Grease fittings manufactured in accordance with AS35411 are tightly controlled, inspected and tested. Testing, materials and inspections must be documented and they must be made available to the purchaser upon request. AS fittings are tightly controlled in every aspect of manufacture from raw materials procurement to production, inspection, testing, packaging and identification. All manufactured lots are traceable to the manufacturer's processes and tests. The raw materials used in the manufacture are traceable to the mills that made them. The quality and performance results are documented to ensure that each fitting fully complies with the AS standard's stringent requirements.

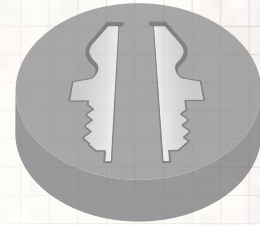
QUALITY ASSURANCE

- 1 OPENING PRESSURE**
Ensures that fitting will operate at low pressures.
- 2 HARDNESS**
Microhardness testing to ensure wear from repeated use.
- 3 BLOWOUT**
Test includes dissecting the part after high pressure testing to reveal internal damage.
PLEASE NOTE: TEST #3 DOES NOT APPLY TO FITTINGS CONTAINING RUBBER BALL CHECK.
- 4 SALT SPRAY**
Measures corrosion resistance, with AS (zinc plated) rated at 50 hours and AS1 (zinc-nickel) at 50 hours to red rust.

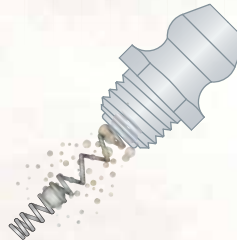
OPENING PRESSURE



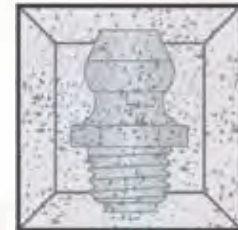
HARDNESS



BLOWOUT



SALT SPRAY

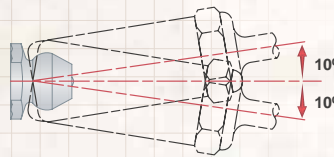


OPERATION

- 1 EXTREME ANGULAR POSITION**
Verifies fitting coupler engagement at extreme angles.
- 2 LUBRICANT LEAKAGE**
Limits the external leakage after fitting is pressurized.
- 3 GASOLINE LEAKAGE**
Ensures that fitting will perform after coming in contact with fuel.
- 4 ACCELERATED AGING**
After heating and submersing in gasoline, the back pressure of the fitting is tested as a simulation of service life.

PLEASE NOTE: TESTS #3 AND #4 ONLY APPLY TO FITTINGS CONTAINING RUBBER BALL CHECK.

EXTREME ANGULAR POSITION

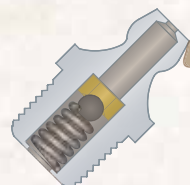


LUBRICANT LEAKAGE



GASOLINE LEAKAGE

TEST ONLY APPLIES TO FITTINGS CONTAINING RUBBER BALL CHECKS.



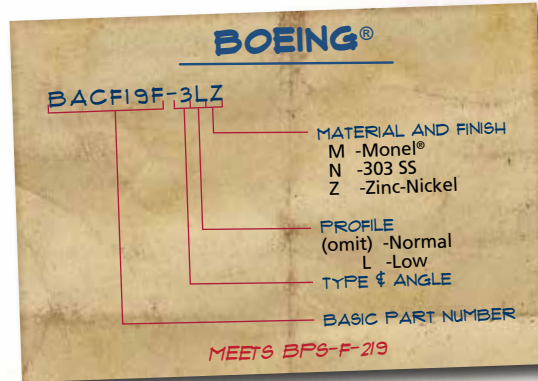
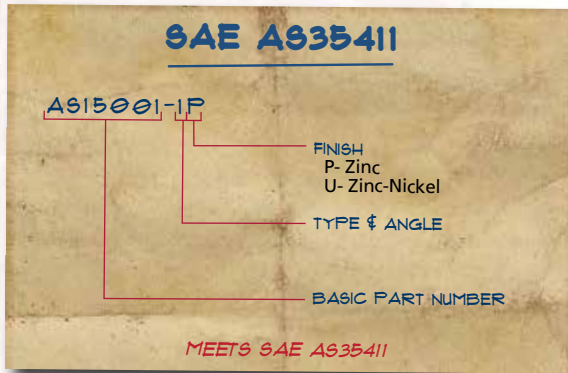
ACCELERATED AGING

TEST ONLY APPLIES TO FITTINGS CONTAINING RUBBER BALL CHECKS.



PART NUMBERING

SAE's new AS part numbering system refers back to the old MIL-F-3541 basic part numbers. The addition of a suffix denotes material and finish.



CROSS REFERENCE CHART

AS NUMBER	DESCRIPTION	OBSOLETE MS NUMBER	BOEING® NUMBER	ALEMITE® NUMBER	HUYETT NUMBER	CATALOG PAGE
AS15001-1P	Straight 1/4"-28 Taper Thread	MS15001-1	—	1641-AS	A1641-AS	238
AS15001-2P	Straight 1/4"-28" Taper Thread	MS15001-2	—	1680-AS	A1680-AS	238
AS15001-3P	45° Angle 1/4"-28" Taper Thread	MS15001-3	—	1637-AS	A1637-AS	238
AS15001-4P	90° Angle 1/4"-28" Taper Thread	MS15001-4	—	1911-AS	A1911-AS	238
AS15003-1P	Straight 1/8" PTF Spl. Short	MS15003-1	—	1610-AS	A1610-AS	240
AS15003-2P	Straight 1/8" PTF Spl. Short	MS15003-2	—	1607-AS	A1607-AS	240
AS15006-1P	Straight 1/8" PTF Short Leak Proof	MS15006-1	—	1650-AS	A1650-AS	240
AS15003-3P	30° Angle 1/8" PTF Spl. Short	MS15003-3	—	1611-AS	A1611-AS	241
AS15006-2P	30° Angle 1/8" NPTF Leak Proof	MS15006-2	—	1692-AS	A1692-AS	240
AS15003-4P	45° Angle 1/8" PTF Spl. Short	MS15003-4	—	1688-AS	A1688-AS	241
AS15003-5P	65° Angle 1/8" PTF Spl. Short	MS15003-5	—	1612-AS	A1612-AS	241
AS15003-6P	90° Angle 1/8" PTF Spl. Short	MS15003-6	—	1613-AS	A1613-AS	241
AS15006-4P	90° Angle 1/8" NPTF Leak Proof	MS15006-4	—	1693-AS	A1693-AS	240
AS15002-1P	Straight 1/4"-28" UNF	MS15002-1	—	1792-AS	A1792-AS	239
AS15002-3P	45° Angle 1/4"-28" UNF	MS15002-3	—	1770-AS	A1770-AS	239
AS15720-1	Straight 1/4"-28" Taper Thread	MS15720-1	—	1966-AS2	A1966-AS2	242
AS15720-2	45° Angle 1/4"-28" Taper Thread	MS15720-2	—	1968-AS2	A1968-AS2	242
AS15720-3	90° Angle 1/4"-28" Taper Thread	MS15720-3	—	1969-AS2	A1969-AS2	242
AS15721-1	Straight 1/8" PTF Spl. Extra Short	MS15721-1	—	1961-AS2	A1961-AS2	242
AS15721-3	30° Angle 1/8" PTF Spl. Short	MS15721-3	—	1921-AS2	A1921-AS2	242
AS15721-4	65° Angle 1/8" PTF Spl. Short	MS15721-4	—	1922-AS2	A1922-AS2	242
AS15721-5	90° Angle 1/8" PTF Spl. Short	MS15721-5	—	1923-AS2	A1923-AS2	242
AS15004-1	Straight 1/4"-28" Taper Thread	MS15004-1	BACF19G-1L	1966-AS3	A1966-AS3	243
AS15004-2	45° Angle 1/4"-28" Taper Thread	MS15004-2	BACF19G-2L	1968-AS3	A1968-AS3	243
AS15004-3	90° Angle 1/4"-28" Taper Thread	MS15004-3	BACF19G-3L	1969-AS3	A1969-AS3	243
AS15005-1	Straight 1/8" PTF Spl. Extra Short	MS15005-1	—	1961-AS3	A1961-AS3	243
AS15005-3	30° Angle 1/8" PTF Spl. Short	MS15005-3	—	1921-AS3	A1921-AS3	243
AS15005-4	65° Angle 1/8" PTF Spl. Short	MS15005-4	—	1922-AS3	A1922-AS3	243
AS15005-5	90° Angle 1/8" PTF Spl. Short	MS15005-5	—	1923-AS3	A1923-AS3	243

Prices, materials, dimensions, tolerances, designs and grades subject to change without notice. © G.L. Huyett 2011

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