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INTERNATIONAL

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AEROSPACE INFORMATION REPORT

SAE

AIR2000

REV.

D

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Submitted for recognition as an American National Standard

AEROSPACE FLUID SYSTEM STANDARDS, METRIC, NATIONAL AND INTERNATIONAL

1. SCOPE:

1.1 List of Metric Standards:

It is the purpose of this aerospace information report to provide a listing of existing and forthcoming metric standards for aerospace fluid systems. It is shown which ISO/TC 20 and ISO/TC 131 or other ISO Technical Committee documents have been approved by the United States Technical Advisory Group (U.S. TAG) to TC 20. This AIR also lists U.S. Aerospace accepted AECMA and international De-Facto standards, also the forthcoming standards being developed in ISO/TC 20/SC 10.

1.2 Organization:

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Metric Aerospace Fluid System Standards are being prepared and coordinated for acceptance in TC 20 by the Subcommittee 10 of TC 20. The United States Subcommittee Advisory Group (U.S. SCAG) of this subcommittee functions in compliance with the Charter for the U.S. Technical Advisory Group for ISO/TC 20 (SAE Organization and Operating Guide) and the American National Standards Institute's (ANSI) "Operating Procedure for the International Activities of the American National Standards Institute."

Depending on the subject matter, the work in the U.S. SCAG will be coordinated with the following industry organizations:

AIA/NASC	National Aerospace Standards Committee
SAE AE-5	Aerospace Fuel, Oil and Oxidizer Systems
SAE AC-9	Aircraft Environmental Systems
SAE A-6	Aerospace Fluid Power, Actuation, and Control Technologies
SAE A-10	Aircraft Oxygen Equipment
SAE G-4	Elastic Seals
SAE E-25	General Standards for Aerospace Propulsion Systems
SAE AMS	Aerospace Materials Division
NFPA	National Fluid Power Association
RMA	Rubber Manufacturers Association

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SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

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2. REFERENCES:

2.1 Definitions:

2.1.1 APPROVED TC 20 DOCUMENTS: Coordinated and approved by the TC 20 U.S. Technical Advisory Group and the SAE Aerospace Council.

2.1.2 DISAPPROVED: ISO documents not acceptable to TC 20 U.S. TAG for aerospace use.

2.1.3 APPROVED TC 131 DOCUMENTS: International standards developed by TC 131 which have been accepted for aerospace use by the TC 20 U.S. TAG. Any future revisions of such documents require TC 20/SC 10 U.S. SCAG concurrence for aerospace acceptance.

3. APPROVED METRIC FLUID SYSTEM STANDARDS:

3.1 TC 20 Documents:

3.1.1 Approved TC 20 Documents:
(R)

ISO 12	Aerospace - Pipelines - Identification Scheme
ISO 45	Aircraft - Pressure Refueling Connections
ISO 102	Aircraft - Gravity Filling Orifices
ISO 450	Aircraft - Connection for Water of Drinkable Quality
ISO 485	Aircraft - Water-Methanol Pressure Connections
ISO 1023	Aircraft - High Pressure Air Charging Valves
ISO 1034	Aircraft - Ground Air - Conditioning Connections
ISO 1465	Aircraft - Liquid Oxygen Replenishment Couplings - Mating
ISO 2434	Compressed Nonbreathing Air for Use in Aircraft
ISO 2563	Aircraft Ducting and Piping - Profile Dimensions for Flanges of V-band Couplings
ISO/TR 2685	Aircraft - Environmental Conditions and Test Procedures for Airborne Equipment - Resistance to Fire in Designated Fire Zones
ISO 2964	Aircraft - Tubing Outside Diameters and Thicknesses - Metric Dimensions
ISO 3174	Aircraft - Connections for Checking Hydraulic Systems by Ground Appliances
ISO 3323	Aircraft - Hydraulic Components - Marking to Indicate Fluid for Which Component is Approved
ISO/DP 5859	Aerospace - Graphic Symbols for Aircraft Hydraulic and Pneumatic Systems (see ISO 1219)
ISO 5884	Measurement of Contamination of Aircraft Hydraulic Fittings
ISO 5887	Aircraft - Joints for Connecting Crew Members' Regulator Masks to Oxygen Sources
ISO/DIS 6404	Test Methods for Electro Hydraulic Servovalves
ISO 6771	Aerospace Construction - Fluid Systems and Components Pressure and Temperature Classifications
ISO 6772	Aerospace Fluid Systems - Impulse Testing of Hydraulic Hose, Tubing and Fitting Assemblies
ISO 6773	Aerospace Fluid Systems - Thermal Shock Testing of Piping and Fittings

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3.1.1 (Continued):

ISO 7169	Aerospace Construction - Separable Tube Fittings for Fluid Systems - General Specification
ISO 7257	Aircraft - Hydraulic Tubing Joints and Fittings - Rotary Flexure Test
ISO 7258	Polytetrafluoroethylene (PTFE) Tubing for Aerospace Applications - Methods for the Determination of the Density and Relative Density
ISO 7313	Aircraft - High Temperature Convoluted Hose Assemblies in Polytetrafluoroethylene (PTFE)
ISO 7314	Aerospace Fluid Systems - Hose Assembly Metal
ISO 7315	Aerospace - P-Clamps (Loop Clamps) for Fluid Tubing Installations - Dimensions
ISO/DP 7317	Aerospace Fluid Systems - 24-deg Cone Fitting (Thick Wall) - Part Standards
ISO 7319	Aerospace Construction - Fluid Systems - Interface of Metric Couplings
ISO 7320	Aerospace - Fluid Systems - Port Connection, Seal and Fitting End - Dimensions
ISO 7321	Geometrical Definition of a 24-deg Cone Coupling
ISO 7661	Aerospace Fluid Systems - Clamp Blocks for Tubes Having Axial Alignment - Design Standard and Qualification Testing - Metric Series
ISO/DP 8153	Terminology for Hose Assemblies, Design Standard, Omega Clamp
ISO 8177	Aerospace - Omega Clamps (Saddle Clamps) for Tubing Installations - Dimensions
ISO/DIS 8278	Aerospace - Fluid Systems and Components - Hydraulic, Pressure Compensated, Variable Delivery Pumps - General Requirements
ISO/DP 8305	Aerospace - Lightweight 24-deg Cone Fittings - Part Standards
ISO 8479	Aerospace - Q-Clamps (Center-Mounted Clamps) for Fluid Tubing Installations - Dimensions
ISO 8574	Aerospace - Rigid Tubing - Qualification Testing
ISO 8575	Aerospace - Hydraulic and Pneumatic Tubing - Dimensions
ISO/DP 8625	Aerospace - Pressure Terms and Definitions
ISO 8775	Aerospace - Gaseous Oxygen Replenishment Coupling
ISO 8829	Aerospace - Fluid Systems - Test Methods, Hose Assemblies, PTFE
ISO 8913	Aerospace - Fluid Systems - Hose Assemblies, PTFE, Lightweight, 204°C, 21 000 kPa - Procurement Specification
ISO 9206	Aerospace-Constant Displacement Hydraulic Motors - General Requirements
ISO 9528	Aerospace - Fluid Systems - Hose Assemblies, PTFE, Standard Weight, 204°C, 21 000 kPa - Procurement Specification
ISO/DIS 9627	Grooves for O-Rings, Dimensions
ISO/DIS 9838	Aerospace - Planar Flexure Testing
ISO/DP 9937	Aerospace - Tubing Terminology
ISO/DIS 9939	Aerospace - Pressure Re-oiling Connection
ISO/DP 9679	Aerospace - Test Method for Tube Clamps

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3.1.1 (Continued):

ISO/DIS 10502 Aerospace - Hose Assembly, PTFE, Up to 232°C, 10 500 kPa,
Procurement Specification

ISO/DIS 10583 Aerospace - Test Methods for Fluid System Fittings

3.1.2 Disapproved TC 20 Documents:

ISO R 443 Marking of Aircraft Gas Cylinders

ISO 451 Aircraft - Pressure Re-Oiling Connection

ISO R 1022 Gaseous Oxygen Replenishment Couplings for Aircraft

ISO 1749 Aircraft - Elastomeric Sealing Rings - Packaging and
Identification

ISO 2046 Gaseous Breathing Oxygen Supplies for Aircraft

ISO 2435 Nitrogen for Use in Aircraft

3.2 TC 131 Documents:

3.2.1 Approved TC 131 Documents:

ISO 2942 Hydraulic Fluid Power - Filter Elements Determination of
Fabrication Integrity

ISO 3601/1 Fluid Systems - Sealing Devices - O-Rings - Part I:
Inside Diameters, Cross Sections, Tolerances and Size
Identification Code

ISO 3601/3 Fluid Systems - Sealing Devices - O-Rings - Part 3:
Quality Acceptance Criteria

DIS 3968.2 Filters - Evaluation of Pressure Drop vs Flow
Characteristics

ISO 4412/1 Test Code for the Determination of Airborne Noise Levels -
Part 1: Pumps

ISO 4412/11 Test Code for the Determination of Airborne Noise Levels -
Part 2: Motors

DIS 6075/1 Mineral Oils - Characteristics Standard Tests

NOTE: The above listed documents have been given full approval following
review of all documents released by ISO/TC 131. Contact SAE A-6E
Committee for approval status of other TC 131 documents.

3.2.2 Disapproved TC 131 Documents:

ISO 1219 Fluid Power System and Components Graphic Symbols

ISO 2941 Hydraulic Fluid Power-Filter Elements - Verification of
Collapse/Burst Resistance

ISO 2944 Fluid Pressure Systems and Components Nominal Pressure

DIS 3019/1 Pumps & Motors Mounting and Shafts

DIS 3019-11 Motors - Mounting Flange and Shafts

ISO 3091/1 Positive Display Pump & Motors - Dimension &
Identification Code for Mounting Flanges & Shaft Ends

ISO 3320 Cylinder Bores & Piston Rod Diameters Metric Series

ISO 3321 Cylinder Bores & Piston Rod Diameters Inch Series

ISO 3322 Cylinder - Nominal Pressure

ISO 3662 Pumps and Motors - Geometric Display

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3.2.2 (Continued):

ISO 3722	Fluid Sample Containers - Qualifying & Controlling Cleaning Methods
ISO 3723	Filter Elements - Method for End Seal Test
ISO 3724	Filter Elements - Verification of Flow Fatigue Characteristics
ISO 3939	Fluid Power Systems and Components - Multiple Lip Packing Sets - Methods for Measuring Stack Heights
ISO 4021	Particle Contamination Analysis - Extraction of Fluid Samples from Lines of an Operating System
DP 4392	Startability of Fluid Motors
ISO 4393	Cylinders Basic Series of Piston Strokes
DIS 4394	Tubing Transmission of Hydraulic and Pneumatics
ISO 4395	Cylinders - Threads of Bowl and Types
ISO 4397	Outside Diameter of Tubes and I.D. of Hoses
DIS 4400	Three Pin Electrical Plug Connector
DIS 4401	Four Port Directional Valves Mounting Surfaces
ISO 4402	Calibration of Liquid Automatic Particle Counter Instrument - Method Using Air Cleaner Fine Test Dust Contaminant
DIS 4404	Fire Resistant Fluids (Category A, B, C) Details of Anti-Corrosion
DIS 4406	Fluids - Solid Contamination Code
DP 4407	Power Fluids Determination of Solid Particle Contamination by Counting Method Using Microscope Transmissions
DP 4408	Determination of Fluid Contamination by the Counting Method Under Light
DIS 4409	Pump, Motors, Integral Transmissions Methods of Test to Determine Steady State Performance
DIS 4411	Valves - Method of Determining Pressure Differential Flow Characteristics
ISO 4413	General Rules for the Application of Equipment to Transmission on Control Systems
DIS 4414	Recommendations for the Applications of Equipment to Transmission and Control System
DIS 4572	Filters - Multipass Method of Testing
DP 5505	Determination of Fluid Contamination by the Gravimetric Measure
DIS 5591/1	Five Port Directional Control Valves Mounting Surfaces
DIS 5591/11	Five Port Directional Control Valves Part II
DIS 5595	Accumulators Pressure & Volume
DIS 5597/1	Hydraulic Fluid Power Seals Housing Dimensions and Tolerances - Part 1: Cylinder Rod and Piston Seals for Reciprocating Applications - Nominal Series
DIS 5598	Hydraulic and Pneumatic Fluid Power - Vocabulary
DP 5599/111	5 Port Directional Control Valve Mounting Surfaces - Electrical Connector Optional
DP 5781E	Pressure Control Valves (Excluding Relief Valve) Sequence Valves, Throttle and Check Mounting
DP 5782E	Compressed Air Filters Characteristics & Reg. (2nd Revision)
DIS 5783	Code for Identification of Value

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3.2.2 (Continued):

DP 5784	Symbols for Binary Logics and Related Junctions for Data Processing
DIS 6020/1	Single Rod Cylinders - 160 Bar Series (1)
DIS 6020/11	Single Rod Cylinders - 160 Bar Series (11)
DIS 6022	Single Rod Cylinders - 250 Bar Series
DP 6052	Code of Identification for Mounting Surfaces Directional Control Valves and Regulating Valves
DIS 6073	Petroleum Oils - Prediction of Bulk Modules
DIS 6074	Mineral Oils - Classification & Designation
DP 6099	Cylinders - Mounting Dimensions and Types
DIS 6149	Metric Ports Dimension and Design
DP 6150/1	Pneumatic - Quick-Disconnect Couplings 10/16/25 Bg.
DP 6150/11	Pneumatic Cylinder Quick Action Coupler 10/16/25 Bg.
DIS 6162	Flanged Tube, Pipe and Hose Connectors
DIS 6163	Flanged Joints & Connector - Four Bolt Flanges
DP 6163/11	Flanged Heads - Dimension (40 Bar)
DP 6163/111	Flanged (Heads) Joints and Connectors Dimensions for the (40 Bar)
DIS 6164	One-Piece Square Flange - Dimensions & Identifying Codes
DIS 6182	Flanged Tube, Pipe & Hose Connections
DP 6194/11	Sealing Devices - Rotary Shaft Lip Seals Part 11: Terminology
DP 6195	Fluid Power Systems and Components Wiper Ring-Housings-Rod Reciprocated Applications - Dimensions and Tolerances
DP 6263	Mounting Surfaces for Compensating Hydraulic Flow Control Valves
DP 6264E	Pressure Relief Valves - Mounting Surfaces
DP 6301	Compressed Air Lubricators Characteristics & Reg.
DP 6358	Draft Proposal for an ISO Standard for Flow Ratio Characteristics for Compressible Fluid Flow
DP 6403	Method of Test Valves Controlling Flow and Pressure
DP 6404	Servovalves, Methods of Test
DIS 6431	Cylinders - Dimensions for Detachable Mounting (10)
DIS 6432	Cylinders - Bores 8 mm to 25 mm Dimensions
DIS 6436	Cylinders - Dimensions & Mounting 10 Bar Series
DIS 6537	Pneumatic Cylinder Bowls - Non Ferrous Tubes
DIS 6547	Hydraulic Fluid Power - Piston Seal Housings, Incorporating Bearing Rings - Dimensions and Tolerances
DP 6605	Hose Assembly Test Requirements
PNFW1 N74E	Hydraulic Pumps & Motor Life & Rel.
PNWZ N93E	Metal Threaded Port for Fluid Power at Low Pressures
Working Document 3C6(CETOP-7)151E	Guide Lines for the Use of Fire Resistant Fluids in Industrial Hydraulic Systems
Working Document 6N 41	Conditions for Rating Compressed Air Dryers
Working Document 6N 91E	Contamination Sensitivity of Hydraulic Components

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3.2.2 (Continued):

Working Document 6(W 63-5)159	Characteristics of Mineral Oils Part II - Special Test
Working Document 6(W 63-6)160E/F	Fluids for Hydraulic Transmissions - Mineral Oils Specifications
Working Document 6(W65-4)162E	Characteristics and Test Methods of Fire Resistant Fluids
Working Document (SC3/W61)168 DP 5597	Piston and Rod Seal Housing Dimension

3.3 Approved European Standards, AECMA, EN: (To be added)

4. METRIC FLUID SYSTEM STANDARDS BEING DEVELOPED:

4.1 Order of Priorities:

The sequence of work is based on the aims and priorities as established by ISO/TC 20 and the Aerospace Industry Association, International Standards Advisory Group (AIA/ISAG). Applied to fluid system needs, the priorities are ranked as follows:

1. Performance and safety
 - Qualifications affecting flight safety
 - Basic system requirements
2. Basic
 - Interface standards, primary flight components specifications
 - Primary system elements
3. Interoperability and servicing
 - Service points interface standards, general
 - Parts standards, safety of flight items
 - System components specifications, general
4. Testing and inspection
 - General test procedures
 - Quality control requirements
5. Product standards, specifications
 - Standards for high-use items and primary system elements
 - Low-use items, standardization
6. Terminology, symbols, and identification

4.2 Fluid System Standards, Listing:

See Table 1.

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5. NOTES:

5.1 Preparatory and Coordinating Committees:

The "Prep Agency" column (Table 1) identifies the SAE committee responsible for preparing the MA documents listed in this report. In parentheses, this column lists other SAE committees interested in the standard. All committees listed in this column must approve the standard prior to submitting the standard to the Aerospace Council for approval.

5.2 2000-Series Metric Standards:

The standard numbers MA2001 through MA2499 have been reserved for airframe fluid system standards, the numbers MA2500 through MA2999 for engine fluid system standards.

5.3 MA and AECMA Standards, Functional Interchangeability:
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Tables containing columns for MA standards alongside AECMA standards indicate functional interchangeability. Standards have the same dimensions and machining requirements and are machined from equivalent U.S. and/or European materials.

5.4 No Metric Standard Planned:

Table 1 also lists ISO standards for fluid systems where development of a metric SAE standard is unnecessary, or where other than SAE metric standards exist.

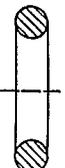
5.5 The (R) is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

PREPARED BY
SAE COMMITTEE G-3,
AEROSPACE COUPLINGS, FITTINGS, HOSE, AND TUBING ASSEMBLIES

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TABLE 1 - Fluid System Standards

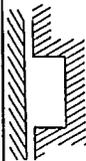
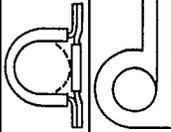
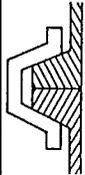
Rev D = Table Revised

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
S		AEROSPACE FLUID SYSTEMS AND COMPONENTS, PRESSURE AND TEMPERATURE CLASSIFICATIONS, METRIC	MA 2001	SAE G-3 (E-25) (A-6)	1979		1981	MIL-H-5440	ISO 6771 SC10.08.02	1
SP		IMPULSE TESTING OF HYDRAULIC HOSE, TUBING AND FITTING ASSEMBLIES, METRIC	MA 2002	SAE G-3	1979		1981	ARP 603	ISO 6772 SC10.07.02	1
SP		ROTARY FLEXURE TESTING OF HYDRAULIC CONNECTIONS, TUBING JOINTS AND FITTINGS, METRIC	MA 2003	SAE G-3	1979		1982	ARP 1185	ISO 7527 SC10.07.04	1
SP		THERMAL SHOCK TESTING OF FLUID SYSTEM PIPING AND FITTINGS, METRIC	MA 2004	SAE G-3 (E-25)	1979		1981	MIL-H-25579	ISO 6773 SC10.07.03	1
PS		TUBE FITTINGS, AEROSPACE FLUID SYSTEMS, SEPARABLE, GENERAL REQUIREMENT FOR, METRIC	MA 2005	SAE G-3 (E-25)	1980		1981	MIL-F-18280	ISO 7169 SC10.06.03	2
SP		HYDRAULIC TUBING QUALIFICATION TEST REQUIREMENTS, METRIC	MA 2006	SAE G-3	1979		1988	MIL-H-5440	DIS 8574 SC10.03.05	1
PS		HOSE ASSEMBLY PTFE, CRES REINFORCED, 204°C, 21 000 kPa, LIGHTWEIGHT, PROCUREMENT SPECIFICATION, METRIC	MA 2007	SAE G-3	1982		1983	AS 1339	ISO 8913 SC10.05.10	2
D		TUBE BEND RADII, METRIC	MA 2008	SAE G-3	1988		1990	MS33611	SC10.03.08	
D		PACKING, PREFORMED O-RING SEAL, STANDARD SIZES AND SIZE CODES, METRIC	MA 2010	SAE E-25 & G-4	1975		1992		ISO 3601/1 SC10.02.01	3
D		PORT CONNECTION DESIGN STANDARD, METRIC	MA 2012	SAE G-3 (E-25)	1979		1982	MS33649	ISO 7320 SC10.06.10	2

(*) D — DESIGN STANDARD
 I — ISO STANDARD, GENERAL
 M — MATERIAL
 S — SYSTEMS
 P — PART STANDARD
 PS — PROCUREMENT SPECIFICATION
 PR — PROCESS SPECIFICATION
 SP — STANDARD PRACTICE
 NMVP — NO METRIC VERSION PLANNED

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TABLE 1 (Continued)

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
D		GLAND DIMENSION FOR ELASTOMERIC SEAL RINGS (O-RINGS), METRIC	MA 2013	SAE G-4 (A-6) (E-25)	1976				DP 9627 SC10.02.04	3
D		FITTING END, FLARELESS, ACORN, METRIC	MA 2014	SAE G-3	1980	1987		NAS1760	DP 7321 SC10.06.02	2
D		TUBING SIZES AND THICKNESSES, METRIC	MA 2015	SAE G-3 (E-25)	1979	1992			ISO 2964 SC10.03.02	5
D		TUBING SIZES AND THICKNESSES PREFERRED STANDARDS LIST, METRIC	MA 2016	SAE G-3	1989	1992			ISO 8575 SC10.04.03	3
NMVP		U-CLAMP DESIGN STANDARD, METRIC	MA 2017	SAE G-3 (E-25)	1983				ISO 8177 SC10.04.03	3
NMVP		LOOP CLAMP DESIGN STANDARD, METRIC	MA 2018	SAE G-3 (E-25)	1983				ISO 7315 SC10.04.01	3
D										
D		AIR DUCT — V-BAND FLANGE, METRIC	MA 2024	SAE G-3 (AC-9) (E-25)	1988	1992		MS24563	ISO 2563	2

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TABLE 1 (Continued)

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P		UNION, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2025	SAE G-3	1980		1986	MS 21902	DP 7317 SC10.06.04	5
P		ELBOW, FLARELESS TUBE, 90-deg, 24-deg, METRIC	MA 2026	SAE G-3	1980		1985	MS21904	DP 7317 SC10.06.04	5
P		TEE, FLARELESS TUBE, 24-deg, METRIC	MA 2027	SAE G-3	1980		1985	MS21905	DP 7317 SC10.06.04	5
P		CROSS, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2028	SAE G-3	1980		1985	MS21906	DP 7317 SC10.06.04	5
P		ELBOW, FLARELESS TUBE AND UNIVERSAL 45 deg, 24-deg CONE, METRIC	MA 2029	SAE G-3	1980		1985	MS21907	DP 7317 SC10.06.04	5
P		ELBOW, BULKHEAD UNIVERSAL 90 deg, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2030	SAE G-3	1980		1985	MS21908	DP 7317 SC10.06.04	5
P		TEE, FLARELESS TUBE, BULKHEAD ON RUN, 24-deg CONE, METRIC	MA 2031	SAE G-3	1980		1985	MS21912	DP 7317 SC10.06.04	5
P		TEE, FLARELESS TUBE, BULKHEAD AND PORT ON RUN, 24-deg CONE, METRIC	MA 2032	SAE G-3	1980		1985	MS21911	DP 7317 SC10.06.04	5
P		TEE, FLARELESS TUBE, BULKHEAD ON RUN, PORT ON SIDE, 24-deg CONE, METRIC	MA 2033	SAE G-3	1980		1985	MS21910	DP 7317 SC10.06.04	5
P		TEE, BULKHEAD ON SIDE, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2034	SAE G-3	1980		1985	MS21909	DP 7317 SC10.06.04	5
P		PLUG, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2035	SAE G-3	1980		1986	MS21913	DP 7317 SC10.06.04	5
P		CAP, PRESSURE SEAL, FLARELESS TUBE, FITTING, 24-deg CONE, METRIC	MA 2036	SAE G-3	1980		1986	MS21914	DP 7317 SC10.06.04	5

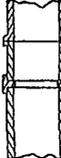
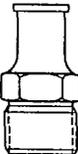
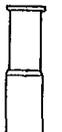
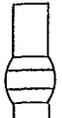
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TABLE 1 (Continued)

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P		BUSHING, SCREW THREAD EXPANDER, FLARELESS TUBE CONNECTION, 24-deg CONE, METRIC	MA 2037	SAE G-3	1980		1986	MS21915	SC10.06.04	5
P		REDUCER, EXTERNAL THREAD, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2038	SAE G-3	1980		1986	MS21916	DP 7317 SC10.06.04	5
P		PLUG—O-RING SEAL, PORT, METRIC	MA 2039	SAE E-25 (G-3)	1983		1987	MS9902 MS9954		5
P		NUT—SLEEVE COUPLING FLARELESS, 24-deg CONE, METRIC	MA 2040	SAE G-3	1980		1986	MS21921	DP 7317 SC10.06.04	5
P		SLEEVE—COUPLING, FLARELESS, 24-deg CONE, METRIC	MA 2041	SAE G-3	1980		1983	MS21922	DP 7317 SC10.06.04	5
P		ADAPTER, PORT CONNECTION TO FLARELESS, 24-deg CONE, METRIC	MA2042	SAE G-3	1987	1991		AS931	DP 7317 SC10.06.04	5
P		UNION, FLARELESS TUBE BULKHEAD AND UNIVERSAL, 24-deg CONE, METRIC	MA 2043	SAE G-3	1980		1986	MS21924	DP 7317 SC10.06.04	5
P		ELBOW, 90-deg UNIVERSAL, FLARELESS TUBE, HIGH PROFILE, 24-deg CONE, METRIC	MA 2044	SAE G-3	1980		1985	MS21925	DP 7317 SC10.06.04	5
P		ELBOW, 90-deg UNIVERSAL, FLARELESS TUBE, LOW PROFILE, 24-deg CONE, METRIC	MA 2045	SAE G-3	1980		1985	MS21926	DP 7317 SC10.06.04	5
P		ADAPTER, FLARELESS, METRIC TO INCH, 24-deg CONE, METRIC	MA 2046	SAE G-3	1980		1986		DP 7317 SC10.06.04	5
P		NUT, FITTING, WIRE LOCKED, FLARED, AND FLARELESS, METRIC	MA 2047	SAE G-3	1984		1986	AS 1790	DP 7317 SC10.06.04	5
P		ELBOW, 45 deg, FLARELESS TUBE TO SWIVEL, 24-deg CONE, METRIC	MA 2048	SAE G-3	1980		1985		DP 7317 SC10.06.04	5

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CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	EC'D	COMPL	U.S.	ISO AND TC20/SC10	
PS		FITTINGS WELDED, HYDRAULIC, TITANIUM AND CRES, 21 000 kPa PROCUREMENT SPECIFICATION, METRIC	MA 2060	SAE G-3	1980		1982	AS 1576		2
D		FITTING END, WELDED, DIMENSIONS, HYDRAULIC, 21 000 kPa, METRIC	MA 2061	SAE G-3	1980		1984	AS 1579		3
P		T-RING, TUBE WELD, HYDRAULIC, 21 000 kPa, METRIC	MA 2062	SAE G-3	1980		1984	AS 1893		3
D		TUBE AND FITTING END, WELDED, PREPARATION AND INSTALLATION, 21 000 kPa, METRIC	MA 2063	SAE G-3	1980		1984			3
P		SLEEVE, TUBE WELD TO FLARELESS, HYDRAULIC, 21 000 kPa, 24-deg CONE, METRIC	MA 2064	SAE G-3	1980		1984	AS 1581		3
P		UNION, TUBE WELD, TO FLARELESS, HYDRAULIC, 21 000 kPa, 24-deg CONE, METRIC	MA 2065	SAE G-3	1980		1984	AS 1582		3
P		REDUCER, TUBE WELD, HYDRAULIC, 21 000 kPa, METRIC	MA 2066	SAE G-3	1980		1984	AS 1585		3
P		SLEEVE, SEAL, HYDRAULIC, OLIVE TO WELD, 21 000 kPa, METRIC	MA 2067	SAE G-3	1980		1984			3
P		UNION, PORT TO FLARELESS, HYDRAULIC, 21 000 kPa, METRIC	MA 2068	SAE G-3	1980		1984			3
P		ELBOW, 90-deg, TUBE WELD, METRIC, HYDRAULIC, 21 000 kPa, METRIC	MA 2069	SAE G-3	1980		1984	AS 1584		3
P		CROSS TUBE WELD, HYDRAULIC, 21 000 kPa, METRIC	MA 2071	SAE G-3	1980		1984			3

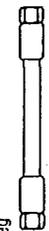
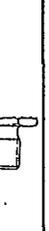
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P		NUT, OLIVE, FLARELESS, FEMALE, 21 000 kPa, METRIC	MA 2072	SAE G-3	1980		1984			
P		NUT, MALE, OLIVE, FLARELESS, 21 000 kPa, METRIC	MA 2073	SAE G-3	1980		1984			
P		SEAL RING, OLIVE, 21 000 kPa, METRIC	MA 2074	SAE G-3	1980		1984			
SP		TEST METHODS FOR POLYTETRAFLUOROETHYLENE HOSE ASSEMBLIES, METRIC	MA 2078	SAE G-3	1984		1986	AS 2078	ISO 8829 SC10.05.09	1
PS		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CONVULUTED, CRES REINFORCED, 204°C, PROCUREMENT SPECIFICATION, METRIC	MA 2079	SAE G-3	1985		1987	AS 620	ISO 7313 SC10.05.03	3

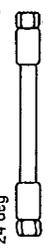
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CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 24-deg CONE, STRAIGHT TO STRAIGHT, LIGHTWEIGHT, METRIC	MA 2086	SAE G-3	1982	1986	1986	AS 115		3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 24-deg CONE, STRAIGHT TO STRAIGHT TO 45 deg, LIGHTWEIGHT, METRIC	MA 2087	SAE G-3	1982	1986	1986	AS 116		3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 24-deg CONE, STRAIGHT TO STRAIGHT TO 90 deg, LIGHTWEIGHT, METRIC	MA 2088	SAE G-3	1982	1986	1986	AS 117		3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 24-deg CONE, 45 deg TO 45 deg, LIGHTWEIGHT, METRIC	MA 2089	SAE G-3	1982	1986	1986	AS 118		3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 24-deg CONE, 45 deg TO 90 deg, LIGHTWEIGHT, METRIC	MA 2090	SAE G-3	1982	1986	1986	AS 119		3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 24-deg CONE, 90 deg TO 90 deg, LIGHTWEIGHT, METRIC	MA 2091	SAE G-3	1982	1986	1986	AS 120		3
NMVP		ASSEMBLY, 24-deg CONE ASSEMBLY STANDARD, DESIGN STANDARD, METRIC	MA 2092	SAE G-3					ISO 7321 SC10.06.02	3
D		PORT FITTING, O-RING, METRIC DESIGN STANDARD, METRIC	MA 2093	SAE E-25	1985	1988	1988	MA 2012		3
D		FITTING DESIGN STANDARD 24-deg CONE, METRIC	MA 2095	SAE G-3	1979	1985	1985	MS33514	DP 7321 SC10.06.02	2
D		FITTING END, 24-deg CONE BULKHEAD, STANDARD DIMENSIONS FOR, METRIC	MA 2096	SAE G-3	1979	1986	1986	MS33515	DP 7321 SC10.06.02	2

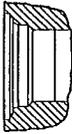
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CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
PS		HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, PROCUREMENT SPECIFICATION	MA 2100	SAE G-3	1981	1989	1989	AS 1424	ISO 7314 SC10.05.08	3
P	24 deg 	HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, 24-deg CONE, STRAIGHT TO STRAIGHT	MA 2101	SAE G-3	1981	1989	1989	AS 136		5
P	24 deg 	HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, 24-deg CONE, STRAIGHT TO 45 deg	MA 2102	SAE G-3	1981	1989	1989	AS 137		5
P	24 deg 	HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, 24-deg CONE, STRAIGHT TO 90 deg	MA 2103	SAE G-3	1981	1989	1989	AS 138		5
P	24 deg 	HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, FLARELESS, WELDED, 45 deg TO 45 deg	MA 2104	SAE G-3	1981	1989	1989	AS 139		5
P	24 deg 	HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, 24-deg CONE, 45 deg TO 90 deg	MA 2105	SAE G-3	1981	1989	1989	AS 140		5
P	24 deg 	HOSE ASSEMBLY, CRES CONVOLUTED AND REINFORCED, 450°C, 24-deg CONE, 90 deg TO 90 deg	MA 2106	SAE G-3	1981	1989	1989	AS 141		5

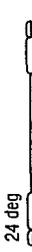
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CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
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D		PORT, RING LOCKED, DESIGN STANDARD, DIMENSIONS FOR, METRIC	MA 2110	SAE G-3 (AECMA C-4)	1984	1985	1985	AS 1300		1
P		ADAPTER, PORT CONNECTION, RING LOCKED TO 8 deg 30 min, LIP SEAL FITTING, METRIC	MA 2111	SAE G-3 (AECMA C-4)	1984		1985	AS 1986		3
P		ADAPTER, PORT CONNECTION RING LOCKED TO 24-deg CONE FITTING, METRIC	MA 2112	SAE G-3 (AECMA C-4)	1984		1985	AS 1299		3
P		ADAPTER, PORT CONNECTION, RING LOCKED TO 60-deg CONE FITTING, METRIC	MA 2113	SAE G-3 (AECMA C-4)	1984		1985			3
P		ADAPTER, PORT CONNECTION, RING LOCKED, INSTALLATION AND REMOVAL, METRIC	MA 2114	SAE G-3 (AECMA C-4)	1984		1985	AS 1301		2
P		UNION, FLARELESS, PORT TO TUBE, 24-deg CONE, METRIC	MA 2115	SAE G-3	1985		1988	MS21902 AS 931	DP 7317 SC10.06.04	5
P		UNION, REDUCER, FLARELESS, PORT TO TUBE, 24-deg CONE, METRIC	MA 2116	SAE G-3	1985		1988	MS21916 AS 932	DP 7317 SC10.06.04	5
P		WIRE, RETAINER, TUBE COUPLING NUT, METRIC	MA 2117	SAE G-3	1985		1987	AS 1791		5
P		NUT, BULKHEAD, TUBE FITTING, METRIC	MA 2118	SAE G-3	1984		1985	AN 924	DP 7321 SC10.06.02	5
P		REDUCER, EXPANDER, RING LOCKED TO BEAM SEAL FITTING, METRIC	MA 2119	SAE G-3 (AECMA C-4)	1987	1992		AS 4383		5

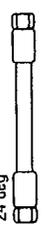
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CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE CONVOLUTED, CRES REINFORCED, 204°C, 24-deg CONE, STRAIGHT TO STRAIGHT, METRIC	MA 2120	SAE G-3	1985		1987	AS 1633		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE CONVOLUTED, CRES REINFORCED, 204°C, 24-deg CONE, STRAIGHT TO 45 deg, METRIC	MA 2121	SAE G-3	1985		1987	AS 1634		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE CONVOLUTED, CRES REINFORCED, 204°C, 24-deg CONE, STRAIGHT TO 90 deg, METRIC	MA 2122	SAE G-3	1985		1987	AS 1635		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE CONVOLUTED, CRES REINFORCED, 204°C, 24-deg CONE, 45 TO 90 deg, METRIC	MA 2123	SAE G-3	1985		1987	AS 1636		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE CONVOLUTED, CRES REINFORCED, 204°C, 24-deg CONE, 45 deg TO 90 deg, METRIC	MA 2124	SAE G-3	1985		1987	AS 1637		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE CONVOLUTED, CRES REINFORCED, 204°C, 24-deg CONE, 90 TO 90 deg, METRIC	MA 2125	SAE G-3	1985		1987	AS 1638		5
PS		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, PROCUREMENT SPECIFICATION, METRIC	MA 2126	SAE G-3	1985		1990	MIL-H-25579 AS1946	DIS 10502 SC10.05.13	3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 24-deg CONE, STRAIGHT TO STRAIGHT, METRIC	MA 2127	SAE G-3				AS647		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 24-deg CONE, STRAIGHT TO 435 deg, METRIC	MA 2128	SAE G-3				AS648		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 24-deg CONE, STRAIGHT TO 90 deg, METRIC	MA 2129	SAE G-3				AS649		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 24-deg CONE, 45 deg TO 45 deg, METRIC	MA 2130	SAE G-3				AS650		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 24-deg CONE, 45 deg TO 90 deg, METRIC	MA 2131	SAE G-3				AS651		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 24-deg CONE, 90 deg TO 90 deg, METRIC	MA 2132	SAE G-3				AS652		5

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					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
PS		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, METALLIC BRAID, STANDARD WEIGHT, 204°C, 21 000 kPa, PROCUREMENT SPECIFICATION, METRIC	MA 2133	SAE G-3	1985	1987		AS 604	ISO 9528 SC 10.05.11	3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 21 000 kPa, 24-deg CONE, STRAIGHT TO STRAIGHT, STANDARD WEIGHT, METRIC	MA 2134	SAE G-3	1985	1990		AS 621		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 21 000 kPa, 24-deg CONE, STRAIGHT TO 45 deg, STANDARD WEIGHT, METRIC	MA 2135	SAE G-3	1985	1990		AS 622		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 21 000 kPa, 24-deg CONE, STRAIGHT TO 90 deg, STANDARD WEIGHT, METRIC	MA 2136	SAE G-3	1985	1990		AS 623		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 21 000 kPa, 24-deg CONE, 45 deg TO 45 deg, STANDARD WEIGHT, METRIC	MA 2137	SAE G-3	1985	1990		AS 624		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 21 000 kPa, 24-deg CONE, 45 deg TO 90 deg, STANDARD WEIGHT, METRIC	MA 2138	SAE G-3	1985	1990		AS 625		5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 21 000 kPa, 24-deg CONE, 90 TO 90 deg, STANDARD WEIGHT, METRIC	MA 2139	SAE G-3	1985	1990		AS 626		5
PS		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, PROCUREMENT SPECIFICATION, METRIC	MA 2140	SAE G-3	1987		1990	AS 1975	SC10.05.15	3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, 8.5-deg CONE, STRAIGHT TO STRAIGHT, METRIC	MA 2141	SAE G-3	1987	1989				5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, 8.5-deg CONE, STRAIGHT TO 45 deg, METRIC	MA 2142	SAE G-3	1987	1989				5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, 8.5-deg CONE, STRAIGHT TO 90 deg, METRIC	MA 2143	SAE G-3	1987	1989				5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, 8.5-deg CONE, 45 deg TO 45 deg, METRIC	MA 2144	SAE G-3	1987					5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, 8.5-deg CONE, 45 deg TO 90 deg, METRIC	MA 2145	SAE G-3	1987					5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 28 000 kPa, 8.5-deg CONE, 90 deg TO 90 deg, METRIC	MA 2146	SAE G-3	1987					5

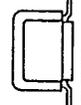
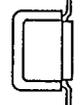
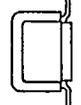
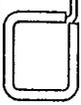
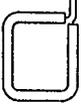
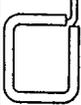
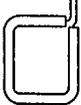
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CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
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I		TERMINOLOGY-HOSE ASSEMBLIES	MA 2149	SAE G-3	1988				DP 8153	6
PS		CLAMP LOOP CUSHION, PROCUREMENT SPECIFICATION, METRIC	MA 2150	SAE G-3	1985	1991		MIL-C-85052	ISO 7315 10.04.08	3
P		CLAMP LOOP, NITRILE-BUTADIENE RUBBER CUSHION, 135°C, METRIC	MA 2150/1	SAE G-3	1985	1987	1991	M85052/1 NAS1715	ISO 7315 10.04.01	5
P		CLAMP LOOP, ETHYLENE-PROPYLENE RUBBER CUSHION, 135°C, METRIC	MA 2150/2	SAE G-3	1985	1987	1991	M85052/2 NAS1715	ISO 7315 10.04.01	5
P		CLAMP LOOP, SILICONE RUBBER CUSHION, 250°C, METRIC	MA 2150/3	SAE G-3	1985	1987	1991	M85052/3 NAS1715	ISO 7315 10.04.01	5
P		CLAMP LOOP, REINFORCING WASHER	MA 2150/4, METRIC	SAE G-3	1985	1987	1991	M85052/4		5
PS		CLAMP SADDLE, CUSHION, PROCUREMENT SPECIFICATION, METRIC	MA 2151	SAE G-3	1985	1991		MIL-C-85449	ISO 8177	3
P		CLAMP SADDLE, NITRILE-BUTADIENE RUBBER CUSHION, 135°C, METRIC	MA 2151/1	SAE G-3	1985	1987	1991	M85449/1 NAS1716	ISO 8177 10.04.03	5
P		CLAMP SADDLE, ETHYLENE-PROPYLENE RUBBER CUSHION, 135°C, METRIC	MA 2151/2	SAE G-3	1985	1987	1991	M85449/2 NAS1716	ISO 8177 10.04.03	5
P		CLAMP SADDLE, SILICONE RUBBER CUSHION, 250°C, METRIC	MA2151/3	SAE G-3	1985	1987	1991	M85449/3 NAS1716	ISO 8177 10.04.03	5

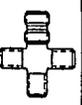
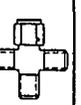
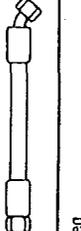
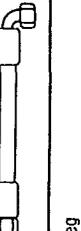
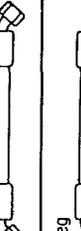
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TABLE 1 (Continued)

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P		CLAMP SADDLE, TETRAFLUOROETHYLENE CUSHION, 250°C, METRIC	MA 2151/4	SAE G-3	1985		1991	MAS449/4 NAS 1716	ISO 8177 10.04.03	5
P		CLAMP CENTER MOUNT, BARE METAL, ELECTRICAL BONDING, METRIC	MA 2152	SAE G-3	1985		1991	AN 735		5
P		CLAMP LOOP, BARE METAL, METRIC	MA 2153	SAE G-3	1985		1991	AN 742 MS 21103		5
P		CLAMP, NITRILE-BUTADIENE RUBBER CUSHION, RECTANGULAR, 2-PIECE, METRIC	MA 2154/1	SAE G-3	1985		1991	NAS1677		5
P		CLAMP ETHYLENE-PROPYLENE RUBBER CUSHION, RECTANGULAR, 2-PIECE, METRIC	MA 2154/2	SAE G-3	1985		1991	NAS1677		5
P		CXLAMP SILICONE RUBBER CUSHION, RECTANGULAR, 2-PIECE, METRIC	MA 2154/3	SAE G-3	1985		1991	NAS1677		5
P		CLAMP RECTANGULAR LOOP NITRILE-BUTADIENE RUBBER CUSHION, ALUMINUM BAND, METRIC	MA 2155/1	SAE G-3	1985		1991	NAS1712		5
P		CLAMP RECTANGULAR LOOP NITRILE-BUTADIENE, RUBBER CUSHION, METRIC	MA 2155/2	SAE G-3	1985		1991	NAS1712		5
P		CLAMP RECTANGULAR LOOP ETHYLENE-PROPYLENE RUBBER CUSHION, CRESSBAND, METRIC	MA 2155/4	SAE-G3			1991	NAS1712		5
P		CLAMP RECTANGULAR LOOP SILICONE RUBBER CUSHION, CRESSBAND, METRIC	MA 2155/5	SAE G-3			1991	NAS1712		5
P		CLAMP LOOP ETHYLENE-PROPYLENE RUBBER CUSHION, CENTER MOUNT, METRIC	MA 2156/1	SAE G-3	1985		1991	NAS1713	ISO 8479 10.04.06	5
P		CLAMP LOOP NITRILE-BUTADIENE RUBBER CUSHION, CENTER MOUNT, METRIC	MA 2156/2	SAE G-3	1985		1991	NAS1713	ISO 8479 10.04.06	5
P		CLAMP LOOP SILICONE RUBBER CUSHION, CENTER MOUNT, METRIC	MA 2156/3	SAE G-3	1985		1991	NAS1713	ISO 8479 10.04.06	5

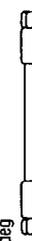
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TABLE 1 (Continued)

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P		CLAMP, LOOP, SILICONE RUBBER CUSHION, CENTER MOUNT, METRIC	MA 2156/4	SAE G-3	1985	1986	1991	MAST713	ISO 8479 10.04.06	5
P		CROSS, BULKHEAD, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2157	SAE G-3			1988			5
P		CROSS, SWIVEL, FLARELESS TUBE, 24-deg CONE, METRIC	MA 2158	SAE G-3			1988			5
PS		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, PROCUREMENT SPECIFICATION, METRIC	MA 2162	SAE G-3	1987	1992		MIL-H-85800 AS4095		3
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, 8.5-deg CONE, STRAIGHT TO STRAIGHT, HEAVYWEIGHT, METRIC	MA 2163	SAE G-3	1987	1992				5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, 8.5-deg CONE, STRAIGHT TO 45 deg, HEAVYWEIGHT, METRIC	MA 2164	SAE G-3	1987	1992				5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, 8.5-deg CONE, STRAIGHT TO 90 deg, HEAVYWEIGHT, METRIC	MA 2165	SAE G-3	1987	1992				5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, 8.5-deg CONE, 45 deg TO 45 deg, HEAVYWEIGHT, METRIC	MA 2166	SAE G-3	1987					5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, 8.5-deg CONE, 45 deg TO 90 deg, HEAVYWEIGHT, METRIC	MA 2167	SAE G-3	1987					5
P		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, ARAMID BRAID, 135°C, 35 500/55 000 kPa, 8.5-deg CONE, 90 TO 90 deg, HEAVYWEIGHT, METRIC	MA 2168	SAE G-3	1987					5

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TABLE 1 (Continued)

CATEGORY CODE (*)	SYMBOL	TITLE	DOCUMENT NO.	PREP AGENCY	DATES			REFERENCE DOCUMENTS		PRIORITY
					START	ECD	COMPL	U.S.	ISO AND TC20/SC10	
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 8.5-deg CONE, STRAIGHT TO STRAIGHT, LIGHTWEIGHT, METRIC	MA 2170	SAE G-3	1987	1990		AS1909		3
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 8.5-deg CONE, STRAIGHT TO STRAIGHT TO 45 deg, LIGHTWEIGHT, METRIC	MA 2171	SAE G-3	1987	1990		AS1910		3
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 8.5-deg CONE, STRAIGHT TO STRAIGHT TO 90 deg, LIGHTWEIGHT, METRIC	MA 2172	SAE G-3	1987	1990		AS1911		3
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 8.5-deg CONE, 45 deg TO 45 deg, LIGHTWEIGHT, METRIC	MA 2173	SAE G-3	1987			AS 1912		3
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 8.5-deg CONE, 45 deg TO 90 deg, LIGHTWEIGHT, METRIC	MA 2174	SAE G-3	1987			AS 1913		3
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 21 000 kPa, 8.5-deg CONE, 90 deg TO 90 deg, LIGHTWEIGHT, METRIC	MA 2175	SAE G-3	1987			AS1914		3
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 204°C, 10 500 kPa, 8.5-deg CONE, STRAIGHT TO STRAIGHT, METRIC	MA 2176	SAE G-3	1987	1988		AS 4006		5
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 8.5-deg CONE, STRAIGHT TO 45 deg, METRIC	MA 2177	SAE G-3	1987	1988		AS 4007		5
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 8.5-deg CONE, STRAIGHT TO 90 deg, METRIC	MA 2178	SAE G-3	1987	1988		AS 4008		5
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 8.5-deg CONE, 45 deg TO 45 deg, METRIC	MA 2179	SAE G-3	1987	1988		AS 4009		5
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 8.5-deg CONE, 45 deg TO 90 deg, METRIC	MA 2180	SAE G-3	1987	1988		AS 4010		5
P	8.5 deg 	HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 232°C, 10 500 kPa, 8.5-deg CONE, 90 deg TO 90 deg, METRIC	MA 2181	SAE G-3	1987	1988		AS 4011		5
PS		HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES BRAID, 204°C, 35 500/55 000 kPa, PROCUREMENT SPECIFICATION, METRIC	MA 2182	SAE G-3	1987	1990		AS 4098		3