

**NATO STANDARD**

**AASSEP-07**

**THE PROVISION OF HYDRAULIC  
POWER FOR SERVICING AIRCRAFT  
HYDRAULIC SYSTEMS**

**Edition A Version 1**

**NOVEMBER 2014**



**NORTH ATLANTIC TREATY ORGANIZATION**

**ALLIED AIRCRAFT SERVICING AND STANDARD EQUIPMENT PUBLICATION**

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**NATO LETTER OF PROMULGATION**

18 November 2014

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## RECORD OF RESERVATIONS

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## RECORD OF SPECIFIC RESERVATIONS

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Note: The reservations listed on this page include only those that were recorded at time of promulgation and may not be complete. Refer to the NATO Standardization Document Database for the complete list of existing reservations.

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<b>CHAPTER 1 INTRODUCTION</b>
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## **1.1. RELATED DOCUMENTS**

### **1.1.1. NATO Documents**

1. STANAG 4714 F&L - MINIMUM QUALITY SURVEILLANCE FOR LUBRICANTS AND ASSOCIATED PRODUCTS
2. STANAG 3748 - HYDRAULIC FLUID, PETROLEUM (H-515) AND POLYALPHAOLEFIN (H-537 AND H-538)

### **1.1.2. Non-NATO Documents**

1. ISO 3174 - AIRCRAFT – CONNECTIONS FOR CHECKING HYDRAULIC SYSTEMS BY GROUND APPLIANCES – THREADED TYPE

## **1.2. AIM**

The aim of this standard is to standardize the essential characteristics of power driven hydraulic servicing equipment to facilitate cross-servicing of aircraft.

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<b>CHAPTER 2     REQUIREMENTS</b>
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**2.1. EQUIPMENT SPECIFICATIONS****2.1.1. Power Driven Hydraulic Servicing Equipment**

1. This equipment must be:
  - a. Capable of control at constant value
  - b. Capable of providing pressures within a range up to 276 bars (4,000 lbf/in<sup>2</sup>) (280 kg/cm<sup>2</sup>)
  - c. Provide flows capable of being varied from zero to at least 72 litres (16 imperial gallons or 19.20 US gallons) per minute.

**2.1.2. Hydraulic Supply Equipment**

Supply equipment must provide hydraulic fluid to the aircraft that, under dynamic conditions, is of at least the same cleanliness as at the inlet to the ground equipment. The cleanliness level of hydraulic fluids delivered by ground servicing equipment shall meet the standards in NATO Standard AFLP 4714 Table 2-I and STANAG 3748.

**2.1.3. Hoses**

Hydraulic servicing hoses of a minimum length of 4.5 metres (15 feet) are to be provided.

**2.1.4. Connections**

A range of aircraft hydraulic connections as specified in ISO 3174. Annex A gives details by Nation as a guide.

**2.2. MARKINGS**

All such servicing equipment is to be clearly marked to show which hydraulic fluid is to be used.

**2.3. ADDITIONAL INFORMATION**

This standard does not preclude use of structural fasteners which have the anti-camout rib incorporated in the recess.

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**ANNEX A HYDRAULIC CONNECTIONS**

<b>NATION</b>	<b>PRESSURE</b>	<b>COUPLING TYPE</b>	<b>NSN</b>
BEL	HIGH PRESSURE	155-S5-12D	4730-00-540-1268
	LOW PRESSURE	155-S5-16D	4730-00-555-0896
CAN	HIGH PRESSURE	155-S5-12D	4730-00-540-1268
	LOW PRESSURE	155-S5-16D	4730-00-555-0896
CZE	HIGH PRESSURE		
	LOW PRESSURE		
DEU		AHT 85S	4920-17-056-4001
		AHT 85SAG	4920-17-114-4676
		AHT 86S	4920-17-056-4002
		AHT 86SAG	4920-17-114-8851
		AHT 82S	4920-17-052-1255
		AHT 82SAG	4920-17-113-5250
		AHT 83S	4920-17-052-1256
		AHT 83SAG	4920-17-113-5249
		AHT 84S1	4920-17-112-8949
ESP		145S5-16D	4730-00-849-9329
		155S5-12D	4730-00-540-1268
		155S5-4D	4730-00-720-4464
		1981H000	4730-99-349-6289
		1982H001	4730-99-370-8090
		3075S5-16D	4730-00-719-6214
		9-94-94-34A	4730-14-411-2457
		9-94-94-33A	4730-14-411-2456
		HTE8131-J	4730-00-726-5605
		HTE8135-J	4730-99-659-8164
		KHC-1858	4730-01-357-7238
		KHC-1005	
		KHC-1339	
		T150S1-6D	4730-01-103-4432
GBR	HIGH PRESSURE	155-S5-12D	4730-00-540-1268
	LOW PRESSURE	155-S5-16D	4730-00-555-0896
GRC	HIGH PRESSURE		
	LOW PRESSURE		
ITA	HIGH PRESSURE		
	LOW PRESSURE		
NLD	HIGH PRESSURE	155-S5-12D	4730-00-540-1268
	LOW PRESSURE	155-S5-16D	4730-00-555-0896
ROU	HIGH PRESSURE		
	LOW PRESSURE		
SVN	HIGH PRESSURE		
	LOW PRESSURE		

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**ANNEX B HYDRAULIC FLUID TYPES**

<b>NATION</b>	<b>TYPE</b>	<b>NSN</b>
BEL	MIL-H-5606 (NATO H-515)	9150-13-234-1309
CAN	MIL-H-5606 (NATO H-515)	9150-00-252-6383
	MIL-H-83282 (NATO H-537)	9150-00-149-7431
	MIL-PRF-87257 (NATO H-538)	9150-01-388-7769
	Skydrol	9150-21-859-0682
CZE		
DEU		
ESP	MIL-H-83282	9150-00-149-7431
	MIL-H-83282	9150-00-149-7432
	MIL-H-5606/H-515	9150-12-124-5895
	H-515	9150-33-001-8088
	HYDRAUNICOIL FH2-1L	9150-14-539-4147
	H-537 B.5 L	9150-14-414-7618
	MIL-H-6083	9150-00-935-9807
	DEXRON III	9150-00-698-2382
	MIL-H-5606-5L	9150-01-497-7718
	BMS3-11, TYPE 4, CLASS 2	9150-01-056-4883
	MIL-H-5606	9150-08-275-24
	MIL-H-46170	9150-11-162-54
	3-GP-26	9150-12-458-96
	NUT0H54	9150-14-440-50
	MIL-H-83282C	9150-00-213-32
	500B4QT	
GBR	OM 15 (NATO H-515)	9150-00-223-4134
	OX 19 (NATO H-537)	9150-00-149-7432
GRC		
ITA		
NLD	NATO H-515	
ROU		
SVN		

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