

## QUALITY ASSURANCE PROVISIONS

NSN: 1650 00-415-7991

P/N: (26512) 1128NM40010-15

NOMEN: PISTON- pneumatic- canopy fwd actuator- inner

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (26512) 1128NM40010-15 Rev. "C" or latest revision and all details and specifications referenced therein.

### I. Quality/Inspection Requirements

- A. MIL-I-45208 or ISO 9000 equivalent applies:
- B. First Article Testing applies:
- C. Mandatory Inspection applies:
- D. Production Lot Testing Applies

### II. Supplemental Requirements

A. Additionally, para. 3.1-3.5, 5.1-5.2, 6.1-6.2 of MIL-Q-9858 or ISO 9000 equivalent apply.

B. The contractor shall identify on the process/operation sheets all manufacturing

Sources performing processes/operations outside of their facilities. These sheets shall not be revised or altered after the successful completion of First Article and/or Production Lot Testing without approval from the Engineering Support Activity (ESA), via the PCO.

C. The Inspection Method Sheets, which list the characteristics of each item, produced under the contract shall have serial number traceability to the raw material, casting, or forging. In addition, the contractor is responsible for providing completed inspection method sheets showing the actual dimensions taken

D. Markings should be in accordance with MIL-STD-130 Rev. "K" paragraph 5.3.3(a), (b), (c), and (g). Method and location shall be in accordance with the drawing.

#### Mandatory Inspection Requirements

During production, mandatory inspection is required to be accomplished by the contractor, as follows:

A. Level of Inspection (LOI):

- 1) Critical Characteristics: 100% inspection shall apply.

2) Major and Minor Characteristics - LOI shall be in accordance with a sampling plan acceptable to the QAR.

B. Critical Characteristics:

**DRAWING (26512) 1128NM40010-15**

***Critical Characteristics:***

***Zone 2C***

1.311/1.312 dia C<sup>1</sup> applies, this dimension is to maintain a 32 microinch surface texture

***Zone 3D***

.125 (12 slots equally spaced) tolerances shall not accumulate.

***Zone 3D***

These radii shall maintain a surface texture of 16 microinch

***Zone 3C***

1.153/1.155 dia. C<sup>1</sup> applies

***Zone 3D***

This surface shall be maintained perpendicular to datum A within .001

***Zone 5D***

Shot Peen this distance before plating

***Zone 5D***

1.865/1.867 dia. before Tungsten Carbide plating

Finish to 1.871/1.873 maintaing a min. .002 tungsten carbide thickness.

***Detail B***

.005/.015 Radii polish free of tool marks

***Zone 5C***

2.238/2.240 dia. C<sup>3&4</sup> apply, this dimension must maintain a surface texture of 32 microinch.

***Zone 5B***

1.678/1.680 dia C<sup>3</sup> applies, this dimension must maintain a surface texture of 4-16 microinch.

C. Major and Minor Characteristics:

1) Shall be defined by the contractor subject to QAR concurrence, unless defined on applicable drawings and associated specifications.

**CONTRACT DATA REQUIREMENTS LIST**  
(2 Data Items)

Form Approved  
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 220 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

<b>A. CONTRACT LINE ITEM NO.</b> 1650 00-415-7991				<b>B. EXHIBIT</b>		<b>C. CATEGORY:</b> TDP <input type="checkbox"/> TM <input type="checkbox"/> OTHER <input type="checkbox"/>			
<b>D. SYSTEM/ITEM</b>				<b>E. CONTRACT/PR NO.</b>		<b>F. CONTRACTOR</b>			
1. DATA ITEM NO. <b>1</b>		2. TITLE OF DATA ITEM <b>CERTIFICATION DATA REPORT</b>				3. SUBTITLE <b>COMPLETE PROCESS OPERATION SHEETS</b>			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) <b>DI-MISC-80678/T1</b>			5. CONTRACT REFERENCE			6. REQUIRING OFFICE <b>DEFENSE SUPPLY CENTER RICHMOND</b>			18. ESTIMATED TOTAL PRICE
7. DD250 REQ <b>LT</b>	9. DIST STATEMENT REQUIRED		10. FREQUENCY <b>AS REQ.</b>	12. DATE OF FIRST SUBMISSION <b>SEE BLOCK # 16</b>		14. DISTRIBUTION			
8. ADP CODE <b>A</b>			11. AS OF DATE <b>AS REQ.</b>	13. DATE OF SUBSEQUENT SUBMISSION <b>SEE BLOCK # 16</b>		a. ADDRESSEE	b. COPIES		
						Draft	Final		
							Reg	Repro	
16. REMARKS <b>PARA. 10.1,10.2,10.2.1,10.2.2,10.2.4,10.5</b> *UPON SUBMISSION OF FIRST ARTICLE/PRODUCTION LOT TEST SAMPLE (S) ** IF PROCESS OPERATION SHEETS CHANGE AFTER SUCCESSFUL COMPLETION OF FAT/PLT						DCMC/ACO		1/0	
						DCMC/QAR		1/0	
						PCO		1/0	
						15. TOTAL		3/0	
1. DATA ITEM NO. <b>2</b>		2. TITLE OF DATA ITEM <b>CERTIFICATION DATA REPORT</b>				3. SUBTITLE <b>COMPLETE INSPECTION METHOD SHEETS</b>			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) <b>DI-MISC-80678/T2</b>			5. CONTRACT REFERENCE			6. REQUIRING OFFICE <b>DEFENSE SUPPLY CENTER RICHMOND</b>			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ <b>LT</b>	9. DEST STATEMET REQUIRED		10. FREQUENCY <b>AS REQ.</b>	12. DATE OF FIRST SUBMISSION <b>SEE BLOCK # 16</b>		14. DISTRIBUTION			
8. ADP CODE <b>A</b>			11. AS OF DATE <b>AS REQ.</b>	13. DATE OF SUBSEQUENT SUBMISSION <b>SEE BLOCK # 16</b>		a. ADDRESSEE	b. COPIES		
						Draft	Final		
							Reg	Repro	
16. REMARKS <b>PARA. 10.1,10.2,10.2.1,10.2.2,10.2.4,10.5</b> *UPON SUBMISSION OF FIRST ARTICLE/PRODUCTION LOT TEST SAMPLE (S) ** AT TIME OF CONTRACT COMPLETION						DCMC/ACO		1/0	
						DCMC/QAR		1/0	
						PCO		1/0	
						15. TOTAL		3/0	
G. PREPARED BY NAVICP-P			H. DATE Oct 22, 2002		I. APPROVED BY NAVICP-P		J. DATE Oct 22, 2002		

**CONTRACT DATA REQUIREMENTS LIST**

(2 Data Items)

Form Approved  
OMB No. 0704-0188

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<b>A. CONTRACT LINE ITEM NO.</b>		<b>B. EXHIBIT</b>		<b>C. CATEGORY:</b> TDP <input type="checkbox"/> TM <input type="checkbox"/> OTHER <input type="checkbox"/>			
<b>D. SYSTEM/ITEM</b> 1650 00-415-7991		<b>E. CONTRACT/PR NO.</b>		<b>F. CONTRACTOR</b>			
1. DATA ITEM NO. 3	2. TITLE OF DATA ITEM REQUEST FOR WAIVER			3. SUBTITLE			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640C		5. CONTRACT REFERENCE		6. REQUIRING OFFICE DEFENSE SUPPLY CENTER RICHMOND			18. ESTIMATED TOTAL PRICE
7. DD250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQ.	12. DATE OF FIRST SUBMISSION SEE BLOCK #16	14. DISTRIBUTION			
8. ADP CODE A		11. AS OF DATE AS REQ.	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK #16	a. ADDRESSEE	b. COPIES		
16. REMARKS					Draft	Final	
					Reg	Repr	o
				DCMC/ACO		1/0	
				DCMC/QAR		1/0	
				PCO		1/0	
				NAVICP-P		1/0	
15. TOTAL		4/0					
1. DATA ITEM NO. 4	2. TITLE OF DATA ITEM REQUEST FOR DEVIATION			3. SUBTITLE			17. PRICE GROUP
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640C		5. CONTRACT REFERENCE		6. REQUIRING OFFICE DEFENSE SUPPLY CENTER RICHMOND			18. ESTIMATED TOTAL PRICE
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED	10. FREQUENCY AS REQ.	12. DATE OF FIRST SUBMISSION SEE BLOCK #16	14. DISTRIBUTION			
8. ADP CODE A		11. AS OF DATE AS REQ.	13. DATE OF SUBSEQUENT SUBMISSION SEE BLOCK #16	a. ADDRESSEE	b. COPIES		
16. REMARKS					Draft	Final	
					Reg	Repro	
				DCMC/ACO		1/0	
				DCMC/QAR		1/0	
				PCO		1/0	
				NAVICP-P		1/0	
15. TOTAL		4/0					
G. PREPARED BY NAVICP-P		H. DATE Oct 22, 2002		I. APPROVED BY NAVICP-P		J. DATE Oct 22, 2002	

# INSTRUCTION FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT

## FOR GOVERNMENT PERSONNEL

- Item A.** Self-explanatory
- Item B.** Self-explanatory
- Item C.** Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual Other - other category of data, such as AProvisioning, AConfiguration Management, etc.
- Item D.** Enter name of system/item being acquired that data will support.
- Item E.** Self-explanatory (to be filled in after contract award)
- Item F.** Self-explanatory (to be filled in after contract award)
- Item G.** Signature of preparer of CDRL
- Item H.** Date CDRL was prepared
- Item I.** Signature of CDRL approval authority
- Item J.** Date CDRL was approved
- Item 1.** See DoD FAR Supplement Subpart 4 71 for proper numbering.
- Item 2.** Enter title as it appears on data acquisition document cited in Item 4.
- Item 3.** Enter subtitle of data item for further definition of data item (optional entry)
- Item 4.** Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-1 (AMSDL), or one-time DID number, that defines data content and format requirements
- Item 5.** Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number)
- Item 6.** Enter technical office responsible for ensuring adequacy of the data item
- Item 7.** Specify requirement for inspection/acceptance of the data item by the Government
- Item 8.** Specify requirement for approval of a draft before preparation of the final data item
- Item 9.** For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref DoDD 5230.24)
- Item 10.** Specify number of times data items are to be delivered
- Item 11.** Specify as-of date of data item, when applicable
- Item 12.** Specify when first submittal is required
- Item 13.** Specify when subsequent submittals are required, when applicable
- Item 14.** Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16
- Item 15.** Enter total number of draft/final copies to be delivered
- Item 16.** Use for additional clarifying information for items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14; Desired medium for delivery of the data item.

## FOR THE CONTRACTOR

- Item 17.** Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423
- a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production development, testing, and administration) but which is required by DD Form 1423
- Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.
- b. Group II. Definition - Data which is essential to the performance of the primary contracted effort both the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.
- Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirement, and the administrative and other expenses related to reproducing and delivering such data item to the Government.
- c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.
- Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.
- d. Group IV Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal
- Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.
- Item 18.** For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if not data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract

<b>CONTRACT DATA REQUIREMENTS LIST</b> (1 Data Item)	Form Approved OMB No. 0704-0188
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<b>A. CONTRACT LINE ITEM NO.</b>	<b>B. EXH/ATCH NO.</b>	<b>C. CATEGORY:</b>
		TDP                      TM                      OTHER

<b>D. SYSTEM/ITEM 1680 01-204-3857</b>	<b>E. CONTRACT/PR</b>	<b>F. CONTRACTOR</b>
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1. DATA ITEM NO. 5	2. TITLE OF DATA ITEM <b>CERTIFICATION DATA/ REPORTS</b>	3. SUBTITLE	17. PRICE GROUP
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4. AUTHORITY (Data Acquisition Document No.) <b>DI-MISC-80678/T3</b>	5. CONTRACT REFERENCE	6. REQUIRING OFFICE <b>DEFENSE SUPPLY CENTER RICHMOND</b>	18. ESTIMATE D TOTAL PRICE
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7. DD 250 REQ <b>LT</b>	9. DIST STATEMENT REQUIRED	10. FREQUENCY <b>AS REQ</b>	12. DATE OF FIRST SUBMISSION <b>SEE BLOCK 16**</b>	14. DISTRIBUTION			18. ESTIMATE D TOTAL PRICE
8. ADP CODE <b>A</b>	11. AS OF DATE <b>AS REQ</b>	13. DATE OF SUBSEQUENT SUBMISSION <b>SEE BLOCK 16**</b>	b. COPIES				
				a. ADDRESSEE	Draft	Reg	Final Repro

16. REMARKS

**PARA. 10.1,10.2,10.2.1,10.2.2,10.2.4,10.5 apply**

**\* BLOCK # 12- UPON SUBMITTAL OF FIRST ARTICLE SAMPLE (s) AND/OR PRODUCTION LOT SAMPLE (s).**

**\*\*BLOCK # 13- REPORTS SHALL BE PROVIDED FOR THE BELOW LISTED SUB-TITLES. These certifications are required at time of First Article/Production Lot testing or contract completion if testing is waived.**

**CERTIFICATION REPORTS FOR PRIME (OEM) PROCESSES AND MATERIAL SPECIFICATIONS SHALL INCLUDE, CERTIFICATION THAT ALL VENDORS PREFORMING THESE PROCESSES ARE PRIME (OEM) (26512)Northrop Grumman APPROVED FOR THEIR SAID PROCESS**

BLOCK # 5- CONTRACT REFERENCE: P/N:1128NM40010-15  
 Certifications are required for the below listed sub-titles  
 Material: 15-5PH per SAE/AMS5659K  
 Plating, Chromium, Knoop Hardness 900-1200 per SAE/AMS-QQ-C-320 class2  
 Heat treat, precipitation hardening 170 KSI RC38-45 to H925 per SAE/AMS-H-6875  
 Magnetic Particle Insp. Per ASTM E 1444  
 Coating, Flame deposition tungsten carbide per AMS 2435F  
 Shot Peen per SAE/AMS-S13165  
 Passivation per Mil-S-5002 (2)

DCMC/ACO			1/0	
DCMC/QAR *			1/0	
PCO **			1/0	

G. PREPARED BY <b>NAVICP-P</b>	H. DATE <b>Oct 22,2002</b>	I. APPROVED BY <b>NAVICP-P</b>	J. DATE <b>Oct 22,2002</b>
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