

FED. SUPPLY CLASS

4720

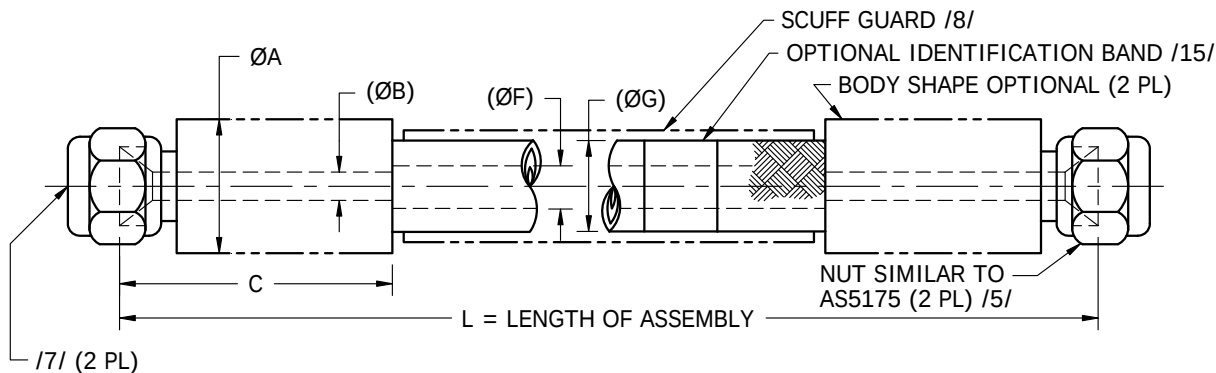


TABLE I – DIMENSIONS

PART NO. AND ASSEMBLY SIZE	END FITTING			HOSE /12/ /13/				PRESSURE RATING /11/ /13/				L MINIMUM LENGTH THAT MAY BE CALLED OUT
	ØA OD MAX	(ØB) ID MIN /13/	C LENGTH MAX	(ØF) ID MIN	(ØG) OD OVER REINF MAX	INNER TUBE WALL THKNS MIN (REF)	INSIDE BEND RADIUS MIN (REF)	OPR PSI (REF)	PROOF PSI (REF)	BURST ROOM TEMP PSI (REF)	BURST HIGH TEMP PSI (REF)	
NAS1688-03	.60	.080	1.15	.110	.273	.035	2	1,500	3,000	12,000	7,500	5.36
NAS1688-04	.68	.132	1.35	.173	.343					10,000	7,000	5.76
NAS1688-05	.75	.193	1.41	.235	.406							5.90
NAS1688-06	.83	.256	1.47	.298	.469	.038	4			9,000	6,500	6.04
NAS1688-08	1.04	.340	1.70	.391	.593		4 5/8			8,000	6,000	6.49
NAS1688-10	1.19	.430	1.86	.485	.687		5 1/2			7,000	5,500	6.81
NAS1688-12	1.48	.548	1.93	.605	.812		6 1/2	1,000	2,000	6,000	4,000	6.98
NAS1688-16	1.77	.778	2.15	.844	1.149	.042	7 3/8	1,250	2,500	5,000	3,500	7.32
NAS1688-20	2.34	1.000	2.52	1.094	1.399		11	1,000	2,000	4,000	3,000	8.06
NAS1688-24	2.91	1.250	2.68	1.344	1.712		14					8.45

MATERIAL:

HOSE: TETRAFLUOROETHYLENE, SEAMLESS, SEE PROCUREMENT SPECIFICATION.
 HOSE REINFORCEMENT (ALL): CRES WIRE, 302 (UNS S30200) OR 304 (UNS S30400) PER QQ-W-423
 ASTM A313/A313M OR ASTM A580/A580M FULL COVERAGE, SEE PROCUREMENT SPECIFICATION.
 END FITTINGS: CRES, 304 (UNS S30400), 321 (UNS S32100) OR 347 (UNS S34700) QQ-S-763 PER
 AMS-QQ-S-763, SEE PROCUREMENT SPECIFICATION.
 SCUFF GUARD: POLYTETRAFLUOROETHYLENE TUBE, .014 TO .057 THICK.

FINISH:

CRES PARTS: PASSIVATED, FINISH NUMBER 5.4 OF MIL-STD-171 (ORD).

① COMPLETELY REVISED

THIRD ANGLE PROJECTION		CUSTODIAN		REVISION	
		NATIONAL AEROSPACE STANDARDS COMMITTEE		1	
PROCUREMENT SPECIFICATION	NOTED	TITLE		CLASSIFICATION PART STANDARD	
		HOSE ASSEMBLY, TETRAFLUOROETHYLENE, HIGH TEMPERATURE, MEDIUM PRESSURE, FLARED		NAS1688	

CODE:

“—” INDICATES NO SCUFF GUARD REQUIRED
 “G” IN PLACE OF DASH INDICATES SCUFF GUARD ATTACHED
 1ST DASH NUMBER: HOSE ASSEMBLY SIZE; SEE TABLE I
 2ND DASH NUMBER: LENGTH; SEE TABLE II

EXAMPLE OF PART NUMBER:

NAS1688 - 06-31R6

LENGTH (31.6 INCHES)
 HOSE ASSEMBLY SIZE (-6 OR 3/8)
 SCUFF GUARD (NONE)
 BASIC PART NUMBER

NOTES:

- (1) REMOVE ALL BURRS AND SHARP EDGES.
- (2) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (3) TOLERANCES: NOTED.
- (4) HOSE SHALL BE SINGLE PIECE LENGTH. NO HOSE SEGMENTS ALLOWED.
- /5/ REDUCTION OF THREAD TOLERANCES ON END FITTING NUT FROM 3B TO 2B DUE TO ASSEMBLING OR TESTING SHALL NOT BE CAUSE FOR REJECTION. A NON-STANDARD SWIVEL NUT MAY BE USED PROVIDED THE HEX AND THREAD DIMENSIONS ARE IN ACCORDANCE WITH AS5175 AND PROVIDED THE NUT CANNOT BE REMOVED FROM THE ASSEMBLY.
- (6) END FITTINGS SHALL BE EITHER PERMANENTLY ATTACHED TO THE HOSE OR BE IN ACCORDANCE WITH MS27053 AND ATTACHED TO THE HOSE.
- /7/ END FITTINGS SHALL MATE WITH PART WITH FITTING END IN ACCORDANCE WITH AS4395, FOR ASSEMBLY SIZE SPECIFIED.
- /8/ SCUFF GUARD, WHEN USED, SHALL COVER THE HOSE REINFORCEMENT TO WITHIN .5 OF THE END FITTING, BOTH ENDS.
- (9) LEAKAGE SHALL NOT EXCEED 50 CC AIR OR GASEOUS NITROGEN PER LINEAR FOOT PER 15 MINUTES AT OPERATING PRESSURE. IN THE EVENT OF A DISPUTE, PARAGRAPH 4.5.5 OF MIL-DTL-26633 SHALL APPLY EXCEPT TEST PRESSURE SHALL BE AT THE OPERATING PRESSURE RATING.
- (10) THE ASSEMBLY SHALL BE CAPABLE OF MEETING THE INNER TUBE INTEGRITY REQUIREMENTS OF PARAGRAPH 4.5.6 OF MIL-DTL-26633, EXCEPT AT THE OPERATING PRESSURE RATING.
- /11/ PRESSURE RATING: OPERATING, PROOF, AND BURST, SEE TABLE I (REF).
- /12/ OPERATING TEMPERATURE RANGE: -65 °F TO +450 °F (REF).
- /13/ CALLOUTS, DIMENSIONS AND TOLERANCES ARE CONTROLLED BY THE PROCUREMENT SPECIFICATION AND ARE LISTED HERE ONLY FOR REFERENCE.

REVISION
1

① COMPLETELY REVISED



NAS1688
 SHEET 2

Document Sharing Hub

USE OF OR RELIANCE UPON THIS DOCUMENT OR ANY NATIONAL AEROSPACE STANDARD IS ENTIRELY VOLUNTARY. AIA DOES NOT QUALIFY SUPPLIERS OR CERTIFY

Copyright Aerospace Industries Association of America Inc. MS PRODUCED UNDER NATIONAL AEROSPACE STANDARD: AIA MAKES NO REPRESENTATION OR CLAIM RESPECTING (1) THE SUITABILITY OF
 Provided by IHS under license with AIA/NAS. ANY PARTICULAR APPLICATION OR (2) THE EXISTENCE OF OR APPLIC Licensee= www.sepana.ir/5991803002, User=sam, albert
 No reproduction or networking permitted without license from IHS. Not for Resale, 01/04/2016 09:48:36 MST TRADEMARKS RIGHTS.

Full document details: AIA NAS1688 2012