

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

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

REV.
C

AS1912

FEDERAL SUPPLY CLASS
4720

RATIONALE

AS1912C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

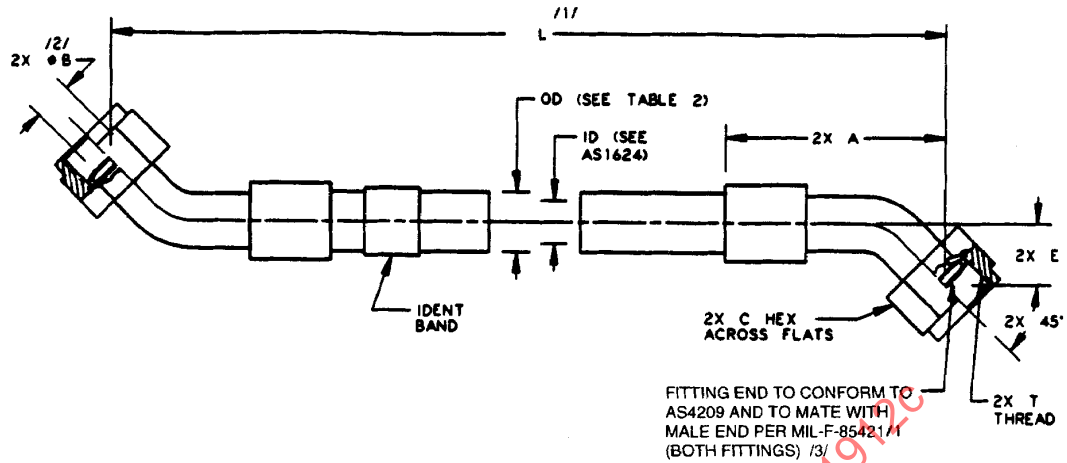


FIGURE 1 - HOSE AND FITTING DIMENSIONS

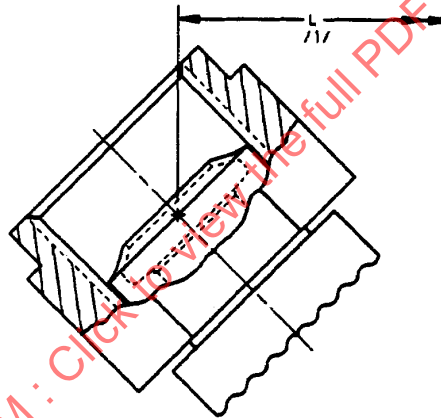


FIGURE 2 - FITTINGS
(ENLARGED VIEW)

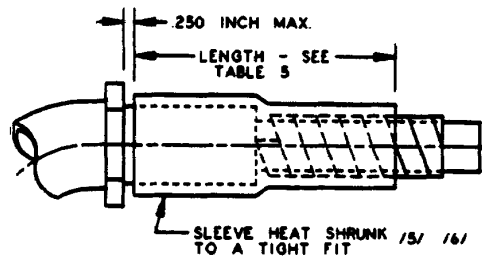
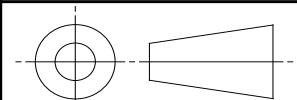


FIGURE 3 - ABRASION SLEEVE RETENTION

SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1912C>

THIRD ANGLE PROJECTION



CUSTODIAN: G-3/G-3D

PROCUREMENT SPECIFICATION: 1/3/ AS1339



AEROSPACE STANDARD

(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT,
BEAM SEAL, 45° TO 45°

AS1912
SHEET 1 OF 6

REV.
C

Copyright 2015 SAE International
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Fax: 724-776-0790

Tel: +1 724-776-4970 (outside USA)
Email: CustomerService@sae.org

SAE WEB ADDRESS: <http://www.sae.org>

ISSUED 1985-08 REVISED 2003-02 REAFFIRMED 2015-01

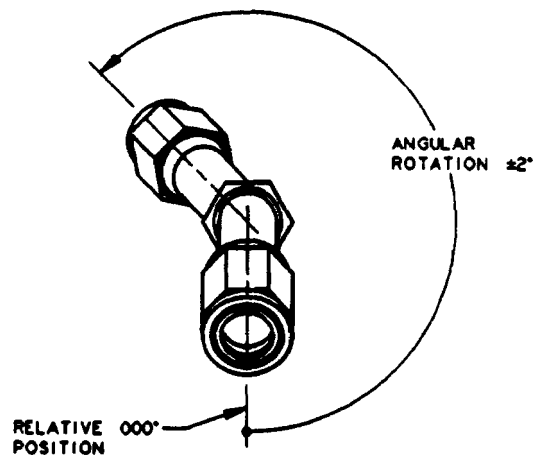


FIGURE 4 - FITTING ANGULAR ORIENTATION

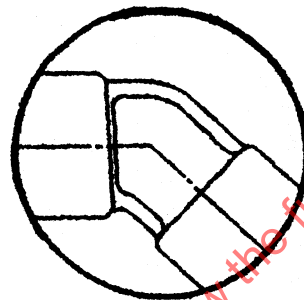


FIGURE 5 - ALTERNATE ELBOW CONFIGURATION /21/

SAENORM.COM : Click to view the full PDF of as1912C

	AEROSPACE STANDARD	AS1912 SHEET 2 OF 6	REV. C
	(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT, BEAM SEAL 45° TO 45°		

AS1912
SHEET 2 OF 6

TABLE 1- HOSE AND FITTING DIMENSIONS

HOSE ASSEMBLY NO. AND SIZE CODE	SIZE REF	THREAD T PER MIL-S-8879 REF	A MAX	B /2/ DIA MIN	C HEX REF	E MIN	E MAX
AS1912E	.250	.4375-24UNJS-3B	1.90	.135	.56	.450	.550
AS1912G	.375	.5625-20UNJS-3B	2.35	.240	.69	.517	.600
AS1912H	.500	.7188-20UNJS-3B	2.50	.340	.88	.513	.675
AS1912J	.625	.8438-18UNJS-3B	2.70	.410	1.00	.620	.765
AS1912K	.750	1.0000-16UNJ-3B	3.15	.510	1.125	.760	.874
AS1912M	1.000	1.2500-14UNJS-3B	3.50	.760	1.50	.825	.950

TABLE 2 - HOSE OR SLEEVE OUTSIDE DIAMETERS

SLEEVE CODE	SLEEVE MATERIAL	TEMP. LIMIT °F	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .250	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .375	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .500	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .625	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ .750	HOSE OR SLEEVE OUTSIDE DIAMETERS (MAX-MIN) /4/ 1.000
—	(—) INDICATES HOSE ONLY NO SLEEVE (SEE AS1339)	400	--	--	--	--	--	--
A	ABRASION SLEEVE TUBULAR /5/ (TFE-AS1291-CODE B)	400	.500/.440	.600/.540	.730/.670	.840/.780	1.110/1.050	1.400/1.340
B	ABRASION SLEEVE COIL /6/ (NYLON AS1294)	275	.450/.390	.550/.490	.695/.635	.810/.750	1.080/1.020	1.360/1.300
C	FIRE SLEEVE (AS1072 SIL-FG) (15 min) /7/ /8/ /11/	400	.625/.500	.750/.625	.875/.750	1.000/.875	1.250/1.125	1.500/1.375
E	ABRASION SLEEVE SHRINK-ON (FEP) (M23053/11) /10/	350	.424/.374	.540/.480	.665/.615	.790/.730	1.070/1.010	1.350/1.290
F	ABRASION SLEEVE SHRINK-ON (POLYOLEFIN AS1073 - CODE B) /10/	275	.450/.400	.560/.505	.695/.645	.810/.750	1.080/1.020	1.360/1.300
H	FIRE SLEEVE INTEGRAL SILICONE (15 min) /11/ /12/	400	.660/.600	.745/.685	.895/.835	1.005/.945	1.240/1.160	1.515/1.455
K	INTEGRAL ABRASION SLEEVE /9/ (BRAIDED) POLYESTER	300	.490/.444	.570/.535	.695/.650	.800/.760	1.070/1.030	1.350/1.310
L	ABRASION SLEEVE COIL /6/ (PTFE-AS1293)	400	.500/.440	.600/.540	.730/.670	.862/.802	1.110/1.050	1.400/1.340

TABLE 3 - HOSE ASSEMBLY LENGTH TOLERANCES

HOSE ASSEMBLY LENGTH	TOLERANCE
UNDER 18 in	±.125 in
18 TO 36 in EXCLUSIVE	±.250 in
36 TO 50 in EXCLUSIVE	±.500 in
50 in AND OVER	±1%

	AEROSPACE STANDARD	AS1912 SHEET 3 OF 6	REV. C
	(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE, CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT, BEAM SEAL, 45° TO 45°		

TABLE 4 - WEIGHTS

HOSE OR SLEEVE CODE	HOSE OR TYPE SLEEVE	UNITS	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .250	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .375	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .500	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .625	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE .750	REFERENCE WEIGHT LB/IN /22/ HOSE SIZE 1.000
-	HOSE ONLY	LB/IN	.009	.015	.020	.027	.058	.085
A	ABRASION SLEEVE (TFE-AS1291-B)	LB/IN	.003	.004	.004	.005	.007	.009
B	ABRASION SLEEVE (NYLON AS1294)	LB/IN	.001	.002	.003	.003	.004	.005
C	FIRE SLEEVE (15 min) AS1072	LB/IN	.007	.009	.011	.012	.017	.021
E	ABRASION SLEEVE (FEP)	LB/IN	.002	.003	.003	.005	.006	.007
F	ABRASION SLEEVE (AS1073B)	LB/IN	.002	.003	.003	.004	.005	.006
H	FIRE SLEEVE INTEGRAL (15 min) ON HOSE	LB/IN	.019	.027	.035	.047	.099	.117
K	ABRASION SLEEVE POLYESTER WITH HOSE	LB/IN	.012	.016	.022	.030	.060	.090
L	ABRASION SLEEVE (PTFE-AS1293)	LB/IN	.003	.004	.005	.005	.006	.007
NONE	FIRE SLEEVE CLAMP /24/	LB/EA	.025	.025	.025	.026	.026	.033
NONE	FITTING END (45°) /24/	LB/EA	.065	.095	.160	.240	.420	.700

TABLE 5 - SLEEVE LENGTHS

HOSE SIZE	LENGTH (in)
.250/.375	2.00 ± .25
.500/.625	2.50 ± .25
.750/1.000	3.00 ± .25

TABLE 6 - SPHERICAL BALL SIZE FOR DETERMINING
MINIMUM HOSE ASSEMBLY ID /2/

HOSE SIZE	ELBOW FITTING
E	.115
G	.204
H	.289
J	.349
K	.434
M	.646

**AEROSPACE STANDARD**

(R) HOSE ASSEMBLY, POLYTETRAFLUOROETHYLENE,
CRES REINFORCED, 400 °F, 3000 PSI, LIGHTWEIGHT,
BEAM SEAL, 45° TO 45°

AS1912
SHEET 4 OF 6

REV.
C