

CODE: BASIC PART NUMBER: SS43 INDICATES MEDIUM PRESSURE HOSE ASSEMBLY WITH FLARED, FLANGED, AND/OR COUPLING END FITTINGS.

TYPE OF HOSE – THE CODE SELECTED FROM TABLE III INDICATES THE TYPE OF HOSE.

(9)

- "D" = STANDARD HOSE
- "S" = SUBMERGIBLE (SUB) HOSE
- "E" = STD HOSE W/INTERNAL SUPPORT
- "G" = SUBMERGIBLE W/INTERNAL SUPPORT

- "P" = HI-STRENGTH HOSE
- "R" = HI-STRENGTH SUBMERGIBLE HOSE
- "Q" = HI-STR W/INTERNAL SUPPORT
- "H" = HI-STR. SUB. W/INTERNAL SUPPORT

PROTECTIVE SLEEVES – THE CODE LETTER SELECTED FROM TABLE V INDICATES THE TYPE OF PROTECTIVE COVERING OVER THE HOSE WIRE BRAID. OMIT LETTER "F" OR "T" WHEN PROTECTIVE SLEEVE IS NOT REQUIRED.

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- "F" = INDICATES "FIRE RESISTANT" SLEEVE.
- "T" = INDICATES INTEGRAL POLYESTER CHAFE GUARD. (THE LETTER "T" HAD PREVIOUSLY INDICATED A SPIRAL WRAP CHAFE GUARD).

TYPE OF FITTINGS – THE CODE (TWO DIGITS) SELECTED FROM TABLE II INDICATES THE TYPE OF FITTINGS AT EACH END OF THE HOSE ASSEMBLY.

SIZE – THE CODE LETTER SELECTED FROM TABLE I INDICATES THE SIZE OF THE HOSE AND END FITTING ASSEMBLIES.

LENGTH – THE THREE DIGITS FOLLOWING THE HOSE SIZE LETTER CODE INDICATE THE LENGTH OF THE HOSE ASSEMBLY IN INCHES (MAX: 99 7/8). THE FIRST TWO DIGITS REPRESENT INCHES, THE THIRD DIGIT REPRESENTS FRACTIONS OF AN INCH IN 1/8" INCREMENTS. SEE FIG. D, SHEET 9, FOR PICTORIAL DEFINITION OF LENGTH.

205 = INDICATES LENGTH IS 20 5/8 INCHES LONG

724 = INDICATES LENGTH IS 72 4/8 (1/2) INCHES LONG

NOTE: HOSE LENGTHS 100 INCHES OR GREATER SHALL BE DESIGNATED BY FOUR DIGITS IN ONE (1) INCH INCREMENTS.

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EXAMPLE: 1060 INDICATES A 106 INCH LENGTH (SEE DDM 3.2.3 FOR PARTS LIST CALLOUT)

ANGULAR RELATIONSHIP OF END FITTINGS – THE LAST THREE DIGITS OF THE HOSE ASSEMBLY CODE INDICATE IN DEGREES THE COUNTER-CLOCKWISE ANGULAR RELATIONSHIP OF THE END FITTINGS. THREE ZEROS "000" SHALL BE USED WHEN NO ANGULAR RELATIONSHIP EXISTS. SEE FIG. E, SHEET 9, FOR AN EXAMPLE OF ANGULAR RELATIONSHIP AND FOR TOLERANCE (IN DEGREES) OF ANGULAR RELATIONSHIP.

EXAMPLE CALLOUT:

SS43 D F 01 A 205 000

BASIC PART NUMBER

LETTER FROM TABLE III INDICATES TYPE OF HOSE: D = STANDARD HOSE

LETTER PER TABLE V INDICATES TYPE OF PROTECTIVE COVERING OVER HOSE WIRE BRAID: F = FIRE RESISTANT SLEEVE

CODE NUMBER PER TABLE II INDICATES THE TYPE OF FITTINGS AT EACH END OF THE HOSE ASSEMBLY: 01 = STRAIGHT SWIVEL NUT TO STRAIGHT SWIVEL NUT

ROTATION CCW.
"000" INDICATES NO ANGULAR RELATIONSHIP
ASSEMBLY LENGTH – FIRST TWO DIGITS INDICATE INCHES, THIRD DIGIT INDICATES FRACTIONS OF AN INCH IN INCREMENTS OF 1/8 INCH. FOR 100 INCHES OR GREATER SEE LENGTH DESCRIPTION

LETTER PER TABLE I INDICATES THE HOSE ASSEMBLY SIZE: "A" = SIZE 4 HOSE AND END FITTING ASSEMBLIES

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(9) **INACTIVE FOR NEW DESIGN IN HYDRAULIC APPLICATIONS. USE MS8005 OR MS8006**

(9) **SS43 HOSE ASSEMBLIES MADE TO PREVIOUS REVISIONS MAY BE USED UNTIL DEPLETION OF STOCK**

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TOLERANCES UNLESS OTHERWISE SPECIFIED	 Sikorsky A United Technologies Company	6900 MAIN ST STRATFORD, CT 06601-1381	SIKORSKY STANDARD
ANGULAR $\pm 0^\circ 30'$			CAGE NO. 78286
LINEAR (EXCEPT HOLES) $\pm .03$, $\pm .010$			SS 43
HOLES PER SS5100			SHEET <u>1</u> OF <u>19</u>
PREP. E. JARONZYK			
APVD. R.F. MEADER			
GOVT. L. DONAHUE			
SUPERSEDES			

1. REQUIREMENTS

1.1 HOSE ASSEMBLIES

⑨ 1.1.1 **QUALIFICATION.** — The hose assemblies furnished under this Sikorsky Standard, shall meet the requirements specified herein, MIL-H-83796, MIL-H-83797, and MIL-F-83798 as applicable.

1.1.2 **MATERIAL.** — The hose assemblies shall be uniform in quality and free from defects in material. All materials which are not specifically described herein shall be of the highest quality and suitable for the purpose intended.

⑨ 1.1.2.1 Except as specified in this standard, end fitting assemblies shall be in accordance with the requirements of MIL-F-5509 "Fittings, Flared Tube, Fluid Connection" and MIL-F-83798 "Fitting, Rubber Hose...General Specification for".

1.1.3 **DESIGN.** — The hose and end fitting assemblies shall be so designed that when assembled, the completed hose assemblies will be suitable for use in aircraft fuel and oil systems at the applicable pressures listed in Table I.

1.1.3.1 **DIMENSIONS.** — The hose and fitting dimensions shall be within the tolerances and requirements defined in the applicable Tables of this Sikorsky Standard.

⑨ 1.1.3.2 **LENGTH.** — The tolerance on length of hose assemblies shall be:

<u>Length</u>	<u>Tolerance</u>
18" and under	±1/8"
Over 18 thru 36 inches	±1/4"
Over 36 thru 50 inches	±1/2"
Over 50 inches	±1%

⑨ 1.1.3.3 **AGING PROPERTIES.** — The load requirements of the hose assemblies shall conform to Table VIII after being immersed in fuel or oil per MIL-F-83798. In sizes 3 thru 10 use swivel nut fittings, in sizes 12 thru 32 use swivel coupling fittings on the hose assembly samples.

1.1.4 **FIRE RESISTANCE.** — Fire resistant hose assemblies shall be capable of enduring a 2000°F flame for a period of five (5) minutes with fluid flow (per AS1055 type Ia) through the lines, at the operating pressures listed in Table I of this Sikorsky Standard, without leakage.

1.1.4.1 The above requirements for fire resistant hose assemblies are applicable for all flammable fluid carrying lines (fuel, lubricating oil, hydraulic fluid, etc.) located within powerplant compartments and other locations where fire is likely to occur as a result of flammable fluid leakage.

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9) 1.1.5 CHEMICAL RESISTANCE. – Hose assemblies furnished in accordance with this Sikorsky Standard shall be compatible with the fluids that are listed in paragraph 1.1.5.1. The hose assemblies shall be resistant to the cleaning fluids, detergent solutions, water, and purging gases that are described in AS 611, and any other cleaning fluids commonly used for aircraft maintenance and repair.

1.1.5.1 In addition to the above requirements, hose assemblies shall be resistant to the following fluids:

SPECIFICATION	NOMENCLATURE
MIL-H-5606	Hydraulic Fluid, Petroleum Base: Aircraft, Missile, and Ordnance
MIL-L-6082	Lubricating Oil, Aircraft Reciprocating Engine (Piston)
MIL-L-7808	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base, Nato Code Number 0-148
MIL-L-21260	Lubricating Oil, Internal Combustion Engine, Preservative and Break-In
MIL-L-23699	Lubricating Oil, Aircraft Turbine Engine, Synthetic Base
MIL-T-5624	Turbine Fuel, Aviation, Grades JP-4, JP-5 and JP-5/JP-8 ST
TT-S-735	Standard Test Fluids, Hydrocarbons

1.1.6 TEMPERATURE RANGE. – The hose assemblies defined in this Sikorsky Standard shall be suitable for use under the following fluid or ambient temperature ranges:

Static Installation: -65°F to 300°F

Dynamic Installation: -40°F to 300°F

9) 1.1.7 AGE CONTROL. – The hose assemblies shall not exceed the age limits established in MIL-STD-1523.

1.2 HOSE

9) 1.2.1 HOSE CONSTRUCTION. – The hose shall consist of seamless inner tube with wire reinforcement outer cover, and shall be so constructed as to meet the requirements defined in this Sikorsky Standard, MIL-H-83796, MIL-H-83797, and MIL-F-83798 and retain the end fittings without slipping or leaking.

1.2.2 INNER TUBE. – The hose inner tube shall consist of a rubber compound of seamless construction and uniform gage. It shall have a smooth bore and be free from pitting, dirt, foreign material or mandrel lubricants consistent with good manufacturing practice.

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9 1.2.3 REINFORCEMENT. — The hose reinforcement shall consist of an outer wire braid of corrosion resistant steel. It shall be braided under tension in order to limit to a minimum the cubical expansion of the hose, and to provide sufficient strength to meet the other requirements of this Sikorsky Standard and MIL-H-83796.

9 1.2.3.1 Internal support coils and sleeves/ inserts (if required) shall be made of corrosion resistant steel and assembled in accordance with the manufacturer specification. Any unprotected clamps or bands used in conjunction with this installation shall be covered by Fluorinated Ethylene Propylene (FEP) shrink sleeve.

9 1.2.4 DIAMETER. — The inside and outside diameter (I.D. and O.D.) of the hose shall be as specified in Table I. (Prior to internal support coil).

1.3 FITTINGS

9 1.3.1 END FITTINGS. — The end fitting assemblies shall mate in accordance with the applicable Military Standards (indicated in the Tables) and shall be of the field attachable type.

Note — Permanently attached fittings shall require prior approval of Sikorsky Engineering.

All fittings shall be in accordance with MIL-H-83796.

9 1.3.2 THREADS. — Swivel nut threads shall be in accordance with MIL-S-8879. Swivel Nut thread sizes less than 1.00 inch shall be UNJF-3B. Thread sizes 1.00 inch and larger shall be UNJ-3B, 12 thread series. Reduction of Class 3B thread tolerance to Class 2B thread tolerance on the swivel nut during assembly or testing shall not be cause for rejection of the hose assembly. Swivel coupling nut threads shall be UN-2B per Military Handbook H28.

1.4 PROTECTIVE COVERING

1.4.1 FIRE RESISTANT SLEEVE. — The fire resistant sleeve shall be of the seamless tube type, and shall be firmly attached over the socket of the end fittings by a metal band or corrosion resistant steel wire.

9 1.4.2 CHAFE GUARD. — Hose assemblies that require a protective cover over the hose wire braid shall be of the polyester integral type.

NOTE: A teflon* spiral wrap chafe guard may be used for retrofit and repair only.

1.5 IDENTIFICATION

1.5.1 PRODUCT IDENTIFICATION. — Equipment, assemblies, and parts shall be marked in accordance with MIL-STD-130.

9 1.5.2 HOSE ASSEMBLIES. — Hose assemblies shall be identified with the following information:

Sikorsky hose assembly part number
Hose assembly source (Vendor Name, trademark, or symbol)
Vendor's hose assembly part number
Hose assembly operating pressure in PSI (Max)
Date of assembly (See Note 1.1.7)
Hose source (Manufacturer's CAGE Code)
Hose Cure Date (See Note 1.1.7)

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9 1.5.3 HOSE. – Bulk hose shall be identified in accordance with the vendor's standard practice and shall contain the following information:

Vendor Name
Vendor Part Number
Size of Hose
Cure Date (See Note 1.1.7)

1.5.4 FITTING. – The manufacturer's name, trademark or symbol shall be permanently marked on all end fittings and/or assemblies.

9 1.6 MARKING IDENTIFICATION INFORMATION ON HOSE ASSEMBLIES

9 1.6.1 STANDARD HOSE ASSEMBLIES, e.g. SS43xxxxxxxxx. (See Figure A) – The manufacturer's name or trademark shall be permanently marked on all end fittings. The Sikorsky standard part number and identification information according to AS 1933 shall be permanently marked on the hose assembly in one of three ways:

- 1) on one end fitting assembly (preferred method),
- 2) on a Polytetrafluoroethylene (PTFE) or Fluorinated Ethylene Propylene (FEP) shrink sleeve,
- 3) on a metal band.

9 1.6.1.1 The metal band shall be attached over a cushion of FEP shrink tubing. An additional covering of transparent FEP shrink tubing shall be applied over the metal band as shown in Figure A.

NOTE: For retrofit and repair only, polyolefin shrink tubing may be used as an alternate for FEP shrink tubing.

9 1.6.2 CHAFE GUARD, e.g. SS43xTxxxxxxxxx; and FIRE RESISTANT HOSE ASSEMBLIES, e.g. SS43xFxxxxxxxx. (See Figures B, C) – The manufacturer's name or trademark shall be permanently marked on all end fittings. The Sikorsky standard part number and identification information according to AS 1933 shall be permanently marked on the hose assembly in one of three ways:

- 1) on one end fitting assembly (preferred method),
- 2) on a Polytetrafluoroethylene (PTFE) or Fluorinated Ethylene Propylene (FEP) shrink sleeve, or
- 3) on a metal band. No PTFE or FEP sleeving is required over or under the metal band.

9 1.6.2.1 The PTFE or FEP shrink sleeve or metal band shall be attached over the firesleeve or integral chafe guard as shown in Figures B and C.

9 1.6.3 Marking on End Fittings – Any marking on the end fittings shall be applied before any required finish is applied to the end fittings. Also, the marking and marking method shall not detrimentally affect the mechanical properties and quality of the end fittings.

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9 1.6.4 Metal band or PTFE or FEP shrink sleeve— The metal band, if used, shall be corrosion resistant steel and be free of all slivers and burrs. The width of the metal band or shrink sleeve shall be .75 inch. The metal band or shrink sleeve shall be designed to remain in position on the hose to prevent chafing. The identification marking shall be legible. The metal band or shrink sleeve shall be located as close as possible to either fitting end. See Figures A, B, and C.

1.7 TESTING AND STORAGE. — After passing the required proof pressure per Table I, the hose assembly shall be flushed clean and inspected to assure that it is free from oil, grease, dirt or other foreign materials both internally and externally as is consistent with good manufacturing practice. After cleaning and inspecting, the hose assembly shall be blown dry and capped until ready for installation.

1.7.1 The method of cleaning and flushing the hose assembly shall be in accordance with the requirements recommended by the hose manufacturer.

1.8 INTERCHANGEABILITY. — All hose assemblies having the same Sikorsky Standard part number shall be directly and completely interchangeable with each other with respect to installation and performance.

1.9 INTENDED USE. — The hose assemblies established in this Sikorsky Standard are for use in aircraft fuel and oil system applications where the operating pressure does not exceed the limits shown in Table I, and the specified temperature limit is:

Static Installations: -65°F to 300°F

Dynamic Installations: -40°F to 300°F

2. FABRICATION

2.1 The completed hose assembly fabricated at Sikorsky Aircraft shall consist of hose and end fitting assemblies from one manufacturer only and shall not contain a hose of one manufacturer and fitting assembly of another.

2.2 Component parts for hose assemblies fabricated at Sikorsky Aircraft shall be purchased from Aeroquip Corporation, Jackson, Michigan or Parker Hannifin Corp, Stratoflex Aerospace Military Connectors Division, Fort Worth, Texas.

2.3 Hose and fittings shall be assembled in accordance with the procedures recommended by the manufacturer.

3. QUALIFICATION PROCEDURE

9 3.1 Hose assemblies purchased from one of the qualified manufacturer's listed in Table VI shall be in accordance with the requirements defined in this Sikorsky Standard.

3.2 The potential supplier shall submit test samples, test reports, and documentation as required by Sikorsky Engineering Department, for examination by Sikorsky Aircraft, as evidence of conformity to the requirements established by this standard.

3.3 Successful qualification shall be denoted by the inclusion of the suppliers name and address in Table VI "Qualified Products List", and the addition of the supplier's equivalent component part numbers in Table VII of this standard.

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4. PREPARATION FOR DELIVERY

4.1 Hose assemblies shall be packaged in accordance with the supplier's commercial practice. Packaging shall be in a manner which will insure acceptance by common carrier and safe delivery at destination. Shipping containers and methods of packaging shall comply to the Uniform Freight Classification Rules or other carrier regulations as applicable to the mode of transportation.

⑨ 5. Notes

⑨ 5.1 Unless otherwise specified, wrench torque value for tightening swivel nuts shall be per SAE ARP 908.

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MARK IDENTIFICATION INFORMATION ON END FITTING ASSEMBLY (PREFERRED), METAL BAND, PTFE SHRINK SLEEVE, OR FEP SHRINK SLEEVE. ALSO SEE PARA. 1.6

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END FITTING ASSEMBLY

FEP SHRINK SLEEVE (TRANSPARENT), TO SEAL AND PROTECT METAL IDENTIFICATION BAND

METAL BAND

HOSE WIRE BRAID

.25 MIN (INNER LAYER) .25 MIN (INNER LAYER)
.50 MIN (OUTER LAYER) .50 MIN (OUTER LAYER)

WIDTH OF IDENTIFICATION BAND
.75 INCHES

END FITTING ASSEMBLY

.75 INCHES

PTFE OR FEP SHRINK SLEEVE HOSE WIRE BRAID

FIGURE A. Marking Identification Information on Standard Hose Assemblies, e.g. SS43xxxxxxxxxx

MARK IDENTIFICATION INFORMATION ON END FITTING ASSEMBLY (PREFERRED), METAL BAND, PTFE SHRINK SLEEVE, OR FEP SHRINK SLEEVE. ALSO SEE PARA. 1.6

END FITTING ASSEMBLY

.75 INCHES

METAL BAND, PTFE SHRINK SLEEVE,
OR FEP SHRINK SLEEVE

INTEGRAL CHAFE GUARD.
BRAIDED CONSTRUCTION
IS SHOWN

FIGURE B. Marking Identification Information on Hose Assemblies With Chafe Guards, e.g. SS43xTxxxxxxxxx

MARK IDENTIFICATION INFORMATION ON END FITTING ASSEMBLY (PREFERRED), METAL BAND, PTFE SHRINK SLEEVE, OR FEP SHRINK SLEEVE. ALSO SEE PARA. 1.6

END FITTING ASSEMBLY

METAL BAND, PTFE SHRINK SLEEVE,
OR FEP SHRINK SLEEVE

.75 INCHES

FIRE RESISTANT SLEEVE

FIGURE C. Marking Identification Information on Hose Assemblies With Firesleeves, e.g. SS43xFxxxxxxxxxx

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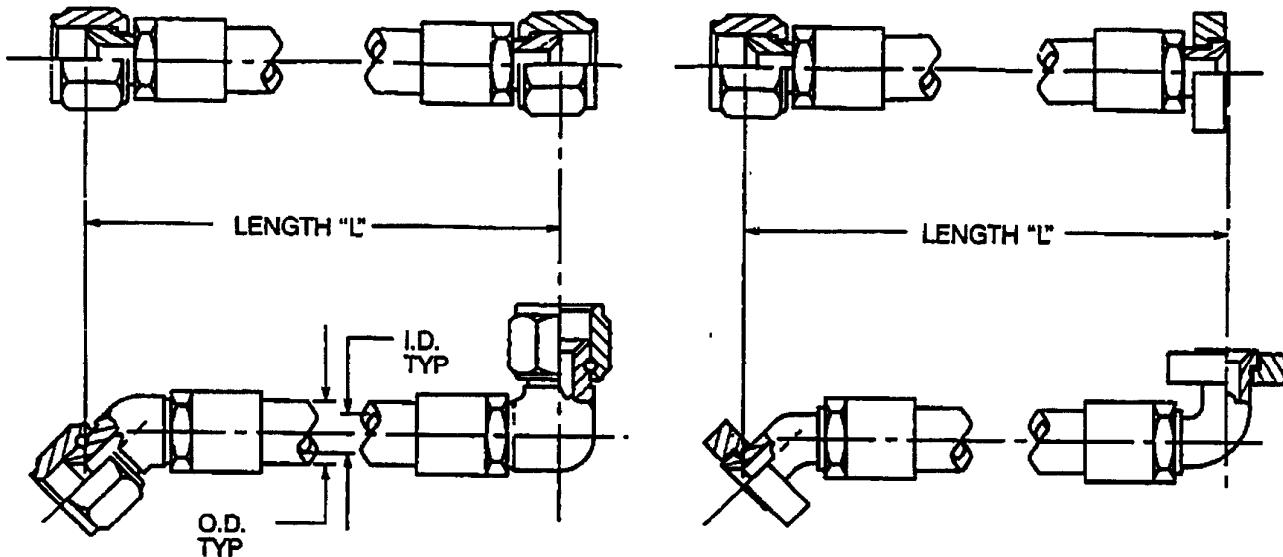


FIGURE D. HOSE LENGTH, I.D., AND O.D. DEFINED

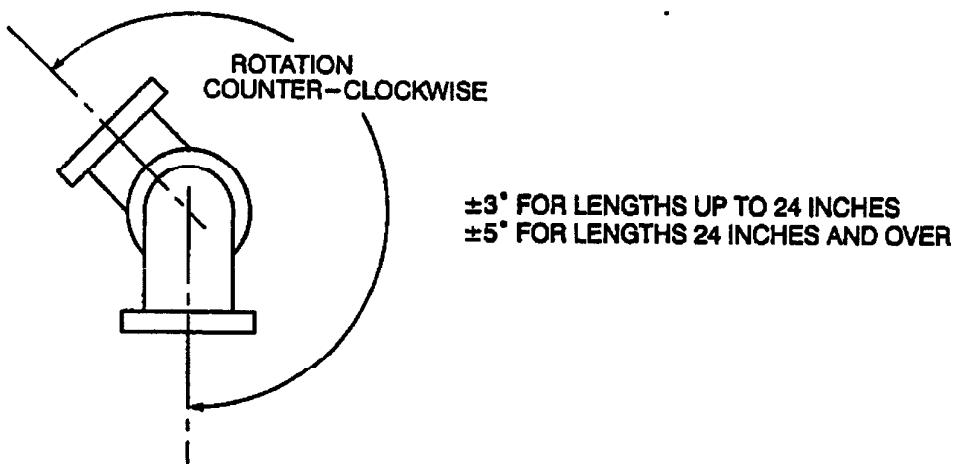


FIGURE E. TOLERANCE (IN DEGREES) OF ANGULAR RELATIONSHIP BETWEEN END FITTINGS

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TABLE I. HOSE SIZES & REQUIREMENTS

SIZE CODE LETTER	HOSE ⑨			MAX OPERATING PRESS, PSI	MIN PROOF PRESS, PSI	⑨ MIN BURST PRESS, PSI	MIN BEND RAD, INCH
	SIZE	I.D., INCH	O.D., INCH				
M	3	.156 ± .015	.375 ± .020	1000	3000	6000	1.75
A	4	.219 ± .015	.438 ± .020	1000	3000	6000	2.00
B	5	.281 ± .015	.484 ± .020	1000	3000	6000	2.25
C	6	.344 ± .015	.547 ± .020	1000	3000	6000	2.50
D	8	.438 ± .015	.641 ± .012	1000	2500	5000	3.50
E	10	.562 ± .015	.797 ± .023	1000	2500	5000	4.00
F	12	.688 ± .015	.938 ± .023	1000	2000	4000	4.50
G	16	.875 ± .015	1.156 ± .031	750	1500	3000	5.50
H	20	1.125 ± .015	1.437 ± .031	500	1300	2000	8.00
J	24	1.375 ± .015	1.704 ± .031	250	800	1750	9.00
K	32	1.781 ± .015	2.121 ± .039	200	600	1200	12.50

TABLE II. END FITTING COMBINATIONS

CODE NO.	END #1	END #2
01	STRAIGHT SWIVEL NUT	STRAIGHT SWIVEL NUT
02		45° SWIVEL NUT
03		90° SWIVEL NUT
* 04		STRAIGHT SWIVEL FLANGE
* 05		45° SWIVEL FLANGE
* 06		90° SWIVEL FLANGE
07	45° SWIVEL NUT	45° SWIVEL NUT
08		90° SWIVEL NUT
* 09		STRAIGHT SWIVEL FLANGE
* 10		45° SWIVEL FLANGE
* 11		90° SWIVEL FLANGE
12	90° SWIVEL NUT	90° SWIVEL NUT
* 13		STRAIGHT SWIVEL FLANGE
* 14		45° SWIVEL FLANGE
* 15		90° SWIVEL FLANGE
* 16	STRAIGHT SWIVEL FLANGE	STRAIGHT SWIVEL FLANGE
* 17		45° SWIVEL FLANGE
* 18		90° SWIVEL FLANGE
* 19	45° SWIVEL FLANGE	45° SWIVEL FLANGE
* 20		90° SWIVEL FLANGE
* 21		90° SWIVEL FLANGE

* Available in -12 thru -32 hose size only

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TABLE I I. END FITTING COMBINATIONS—CONTINUED

CODE NO.	END #1	END #2
⑩ # 22 * 23 * 24	STRAIGHT SWIVEL NUT	STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
⑩ # 25 * 26 * 27	45° SWIVEL NUT	45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
⑩ # 28 * 29 * 30 * 31 * 32 * 33	90° SWIVEL NUT	STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
⑩ * 34 * 35 * 36 * 37 * 38 * 39	45° SWIVEL FLANGE	45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
⑩ * 40 * 41 * 42 * 43 * 44 * 45	90° SWIVEL FLANGE	90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING
		STRAIGHT SWIVEL COUPLING
		45° SWIVEL COUPLING
		90° SWIVEL COUPLING

* Available in -12 thru -32 hose size only

#Available in -8, -12 thru -32 hose sizes only

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(9) TABLE III. MATERIAL REQUIREMENTS

HOSE TYPE		FITTING SIZE	MATERIAL								
D (STANDARD (STD))	3		HOSE	SOCKET	SLEEVE (A)	O-RING (A)	NIPPLE ASSY	NUT	FLANGE	WIRE BRAID	RING
S (SUBMERGIBLE(SBM))	4						CRES -3, -4, -5 SIZES	CRES -3, -4, -5 SIZES	X		
P (HI-STRENGTH)	5										
R (HI-STRENGTH(SBM))	6		(B)	ALUM	STEEL						
E (STD W/INTL SPRT)	8										
G (SBM W/INTL SPRT)	10										
Q (H/STR W/INTL SPRT)	12										
H (H/ STR SBM W/INTL SPRT)	16										
	20										
	24										
	32										

(A) SLEEVE AND O-RING ARE PROVIDED WITH STRATOFLEX SWIVEL COUPLINGS ONLY.

(B) GENERAL REQUIREMENTS PER PARAGRAPHS 1.1.2, 1.2, AND 1.4 HEREIN.
SPECIFIC REQUIREMENTS PER VENDOR SPECIFICATIONS.

(10) TABLE IV. COMPONENT WEIGHTS

SIZE	HOSE WEIGHT, LBS/IN, MAXIMUM			FITTING ASSEMBLY WEIGHTS IN POUNDS (APPROXIMATE)								
	BASIC	CODE F	CODE T	STR SWIVEL NUT	45° SWIVEL NUT	80° SWIVEL NUT	STR SWIVEL FLG	45° SWIVEL FLG	90° SWIVEL FLG	STR SWIVEL COUPLING	45° SWIVEL COUPLING	90° SWIVEL COUPLING
3	.009	.020	.011	.049	.056	.057						
4	.011	.022	.013	.061	.070	.072						
5	.013	.026	.015	.081	.092	.095						
6	.019	.030	.017	.048	.052	.054						
8	.017	.036	.019	.078	.085	.088						
10	.022	.050	.027	.108	.119	.124						
12	.026	.056	.033	.170	.179	.193	.155	.162	.167	.225	.225	.245
16	.040	.078	.053	.258	.268	.287	.223	.223	.239	.300	.300	.330
20	.051	.084	.062	.372	.431	.454	.331	.342	.369	.400	.400	.460
24	.069	.106	.074	.504	.564	.538	.398	.420	.467	.525	.525	.595
32	.086	.140	.095	.961	.986	.953	.675	.717	.777	.850	.850	.930

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SIKORSKY AIRCRAFT



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TABLE V

CODE LETTER	PROTECTIVE COVERING	APPLICATION
F	FIRE RESISTANT SLEEVE (SEAMLESS TUBE TYPE)	FOR USE WHERE FIRE HAZARD MAY EXIST. (SEE NOTE 1.4.1)
T	⑨ INTEGRAL POLYESTER CHAFE GUARD	FOR USE IN APPLICATIONS WHERE THE HOSE ASSEMBLY PASSES THROUGH BULKHEADS OR IS SUBJECT TO ABRASION FROM OTHER METAL PARTS. (SEE NOTE 1.4.2)

⑨ INTERNAL SUPPORT INFORMATION

FITTING SIZE	AEROQUIP			STRATOFLEX	
	COIL SPRING	INSERT/ADAPTER (2)	BAND	COIL SPRING	INSERT/ADAPTER (2)
03					
04					
05					
06					
08					
10				2611-17	1224-17
12	900780-13C	900800-21C	900591-3C	2611-21	1224-21
16	900780-14C	900800-14C	900591-3C	2611-27	1224-27
20	900780-15C	900800-15C	900591-4C	2611-35	1224-35
24	900780-17C	900800-17C	900591-4C	2611-43	1224-43
32	900780-18C	900800-31C	900591-5C	2611-56	1224-56

⑨ MAXIMUM OUTSIDE DIAMETERS FOR PROTECTIVE COATINGS

REF HOSE SIZE	⑨ CODE "F" MAX O.D. OVER HOSE	⑨ CODE "T" MAX O.D. OVER HOSE
3	.78	.49
4	.84	.55
5	.90	.60
6	.97	.66
8	1.09	.76
10	1.38	.91
12	1.50	1.05
16	1.75	1.28
20	1.95	1.56
24	2.19	1.83
32	2.74	2.23

(11)

TABLE VI. QUALIFIED PRODUCTS LIST

MANUFACTURER	MFG.	HOSE ASSEMBLY SIZE QUALIFIED FOR
AEROQUIP CORPORATION JACKSON, MICHIGAN EATON FLUID POWER GMBH GILCHING, GERMANY	00624 C2178	-3,-4,-5,-6,-8,-10,-12,-16,-20,-24,-32 (See Table VII)
STRATOFLEX INC. FORT WORTH, TEXAS	98441	

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APPROVED COMPONENT PART NUMBERS: THE VENDOR HOSE AND END FITTING ASSEMBLY PART NUMBERS LISTED IN THIS TABLE HAVE BEEN APPROVED FOR USE IN THE HOSE ASSEMBLIES DEFINED IN THIS SIKORSKY STANDARD.

(NOTE: FABRICATION OF ASSEMBLIES SHALL BE IN ACCORDANCE WITH PARA. 2.)

TABLE VII (9)

⑨ SHEETS RENUMBERED

VENDOR NAME	SIZE	VENDOR PART NUMBERS									
		HOSE, ALL TYPES	SWIVEL NUT STRAIGHT	45 DEG	90 DEG	SWIVEL FLANGE STRAIGHT	45 DEG	90 DEG	SWIVEL COUPLING STRAIGHT	45 DEG	90 DEG
AEROGUIP	3	601-3	AE22715B	AE22711B	AE22713B	AE22713E					
	4	601-4	AE22715E	AE22711E	AE22713E	AE22713F					
	5	601-5	AE22715F	AE22711F							
	6	601-6	816-6D	8846-6D	8891-6D						
	8	601-8	816-8D	8846-8D	8891-8D						
	10	601-10	816-10D	8846-10D	8891-10D						
	12	601-12	816-12D	8846-12D	8891-12D	8844-12D	8845-12D	8890-12D	AE21295K	AE21395K	AE21397K
	16	601-16	816-16D	8846-16D	8891-16D	8844-16D	8845-16D	8890-16D	AE21295M	AE21395M	AE21397M
	20	601-20	816-20D	8846-20D	8891-20D	8844-20D	8845-20D	8890-20D	AE21295N	AE21395N	AE21397N
	24	601-24	816-24D	8846-24D	8891-24D	8844-24D	8845-24D	8890-24D	AE21295P	AE21395P	AE21397P
	32	601-32	816-32D	8846-32D	8891-32D	8844-32D	8845-32D	8890-32D	AE21295R	AE21395R	AE21397R
STRATOFLEX	3	156-3	676-3S	678-3S	680-3S						
	4	156-4	676-4S	678-4S	680-4S						
	5	156-5	676-5S	678-5S	680-5S						
	6	156-6	676-6D	678-6D	680-6D						
	8	156-8	676-8D	678-8D	680-8D						
	10	156-10	676-10D	678-10D	680-10D						
	12	156-12	676-12D	678-12D	680-12D	681-12D	683-12D	685-12D	25630-12-12D	25631-12-12D	25632-12-12D
	16	156-16	676-16D	678-16D	680-16D	681-16D	683-16D	685-16D	25630-16-16D	25631-16-16D	25632-16-16D
	20	156-20	676-20D	678-20D	680-20D	681-20D	683-20D	685-20D	25630-20-20D	25631-20-20D	25632-20-20D
	24	156-24	676-24D	678-24D	680-24D	681-24D	683-24D	685-24D	25630-24-24D	25631-24-24D	25632-24-24D
	32	156-32	676-32D	678-32D	680-32D	681-32D	683-32D	685-32D	25630-32-32D	25631-32-32D	25632-32-32D

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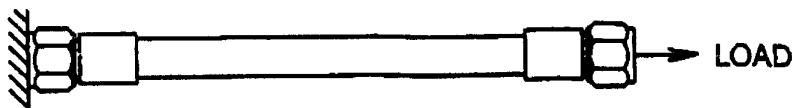
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SHEET 14

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DATE 3/21/69 REvised 9 9/12/96

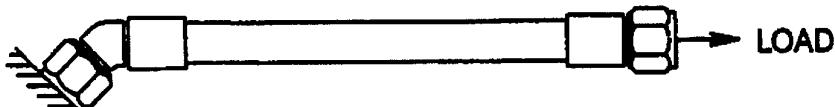
TABLE VIII. Aging Properties: Strength After Aging



STRAIGHT TENSION

FITTING SIZE	3	4	5	6	8	10	12	16	20	24	32
MIN LOAD, LBS	300	450	500	575	600	1175	1475	1825	2075	2350	2500

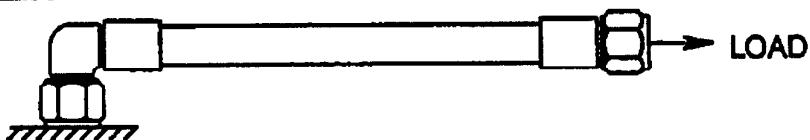
FTG SIZE	3	4	5	6	8	10	12	16	20	24	32
MIN LOAD, LBS	200	400	500	600	700	900	1100	1200	1300	1600	1800



45° ELBOW TENSION

FITTING SIZE	3	4	5	6	8	10	12	16	20	24	32
MIN LOAD, LBS	300	450	500	575	800	1175	1475	1825	2075	2350	2500

FTG SIZE	3	4	5	6	8	10	12	16	20	24	32
MIN LOAD, LBS	200	400	500	600	700	900	1100	1000	1300	1600	1800



90° ELBOW TENSION

FITTING SIZE	3	4	5	6	8	10	12	16	20	24	32
MIN LOAD, LBS	300	450	500	575	800	1175	1475	1825	2075	2350	2500

FTG SIZE	3	4	5	6	8	10	12	16	20	24	32
MIN LOAD, LBS	200	400	500	600	700	900	1100	1200	1300	1600	1800

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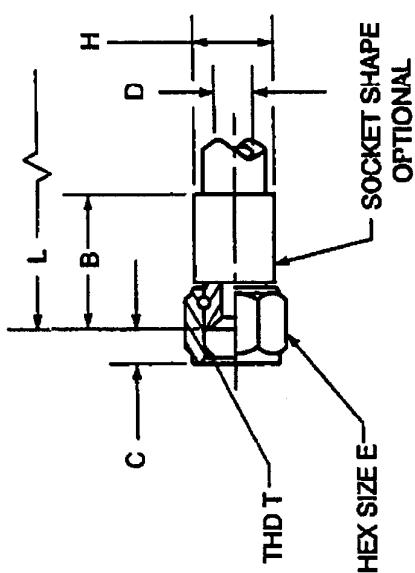
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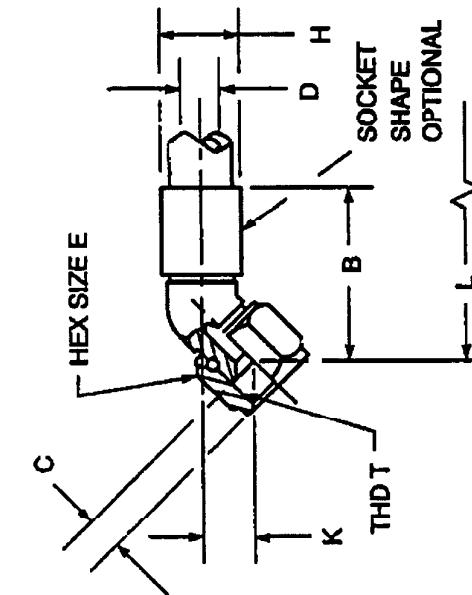
SHEET 15

SIZE	B MAX	C REF	D REF MIN I.D. THRU FITTING	E HEX NUT ACROSS FLATS	H SOCKET MAX O.D. ACROSS CORNERS	THREAD, T
3	1.30	.34	.103	.500	.640	3/8-24 UNJF-3B
4	1.33	.375	.150	.562	.703	7/16-20 UNJF-3B
5	1.38	.375	.211	.625	.765	1/2-20 UNJF-3B
6	1.51	.375	.274	.688	.827	9/16-18 UNJF-3B
8	1.79	.438	.366	.875	.984	3/4-16 UNJF-3B
10	1.94	.515	.472	1.000	1.171	7/8-14 UNJF-3B
12	2.01	.562	.576	1.250	1.375	1 1/16-12 UNJ-3B
16	2.36	.620	.781	1.500	1.575	1 5/16-12 UNJ-3B
20	2.64	.74	1.026	1.812	1.906	1 5/8-12 UNJ-3B
24	2.79	.74	1.264	2.125	2.125	1 7/8-12 UNJ-3B
32	3.16	.92	1.684	2.750	2.755	2 1/2-12 UNJ-3B



STRAIGHT SWIVEL NUT (FLARED)
TO MATE WITH MS33656 END CONNECTION

SIZE	B MAX	C REF	D REF MIN I.D. THRU FITTING	E HEX NUT ACROSS FLATS	H SOCKET MAX O.D. ACROSS CORNERS	K +.070 -.035	THREAD, T
3	1.74	.34	.103	.500	.640	.340	3/8-24 UNJF-3B
4	1.72	.375	.150	.562	.703	.352	7/16-20 UNJF-3B
5	1.83	.375	.211	.625	.765	.415	1/2-20 UNJF-3B
6	2.00	.375	.274	.688	.827	.444	9/16-18 UNJF-3B
8	2.17	.438	.366	.875	.984	.456	3/4-16 UNJF-3B
10	2.42	.515	.472	1.000	1.171	.536	7/8-14 UNJF-3B
12	2.79	.562	.576	1.250	1.375	.623	1 1/16-12 UNJ-3B
16	3.06	.620	.781	1.500	1.575	.690	1 5/16-12 UNJ-3B
20	3.45	.64	1.026	1.812	1.906	.768	1 5/8-12 UNJ-3B
24	3.65	.74	1.264	2.125	2.125	.867	1 7/8-12 UNJ-3B
32	4.26	.92	1.684	2.750	2.755	1.065	2 1/2-12 UNJ-3B



45 DEGREE SWIVEL NUT (FLARED)
TO MATE WITH MS33656 END CONNECTION

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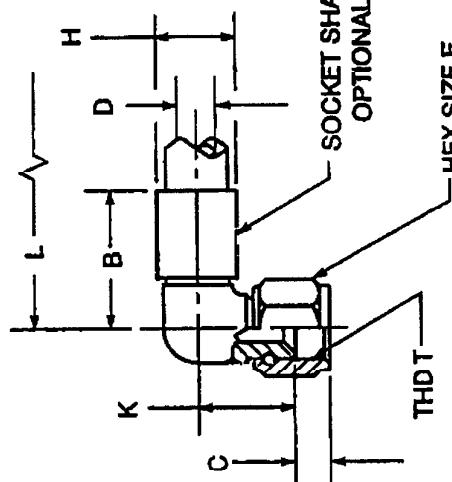
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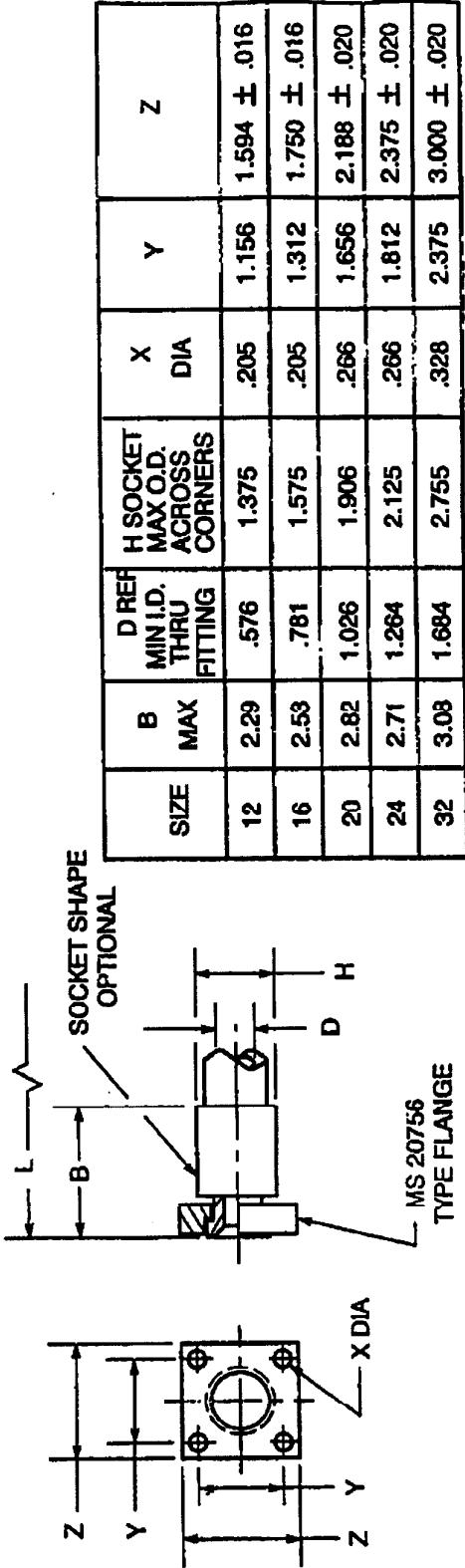
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SIZE	B MAX	C REF	D REF MIN I.D. THRU FITTING	E HEX NUT ACROSS FLATS	H SOCKET MAX O.D. ACROSS CORNERS	K +.070 -.035	THREAD T
3	1.58	.34	.103	.500	.640	.660	3/8-24 UNJF-3B
4	1.59	.375	.150	.562	.703	.720	7/16-20 UNJF-3B
5	1.68	.375	.211	.625	.765	.844	1/2-20 UNJF-3B
6	1.85	.375	.274	.688	.827	.922	9/16-18 UNJF-3B
8	2.01	.438	.366	.875	.984	.938	3/4-16 UNJF-3B
10	2.25	.515	.472	1.000	1.171	1.126	7/8-14 UNJF-3B
12	2.68	.562	.576	1.250	1.375	1.376	1 1/16-12 UNJ-3B
16	2.97	.620	.781	1.500	1.575	1.500	1 5/16-12 UNJ-3B
20	3.38	.74	1.026	1.812	1.906	1.782	1 5/8-12 UNJ-3B
24	3.59	.74	1.264	2.125	2.125	2.032	1 7/8-12 UNJ-3B
32	4.22	.92	1.684	2.750	2.755	2.532	2 1/2-12 UNJ-3B



90 DEGREE SWIVEL NUT (FLARED)
TO MATE WITH MS33656 END CONNECTION



STRAIGHT SWIVEL FLANGE TO MATE IN ACCORDANCE WITH MS33786

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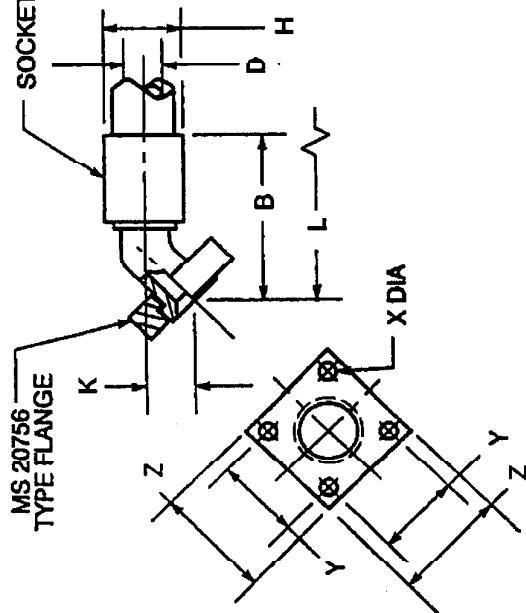
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SHEET 17

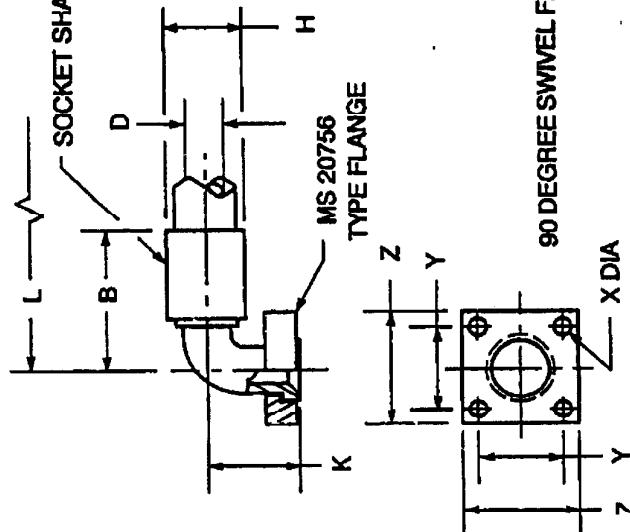
SOCKET SHAPE OPTIONAL



SIZE	B MAX	D REF MIN I.D. THRU FITTING	H SOCKET MAX O.D. ACROSS CORNERS	K	X DIA	Y	Z
12	2.64	.576	1.375	.468	.205	1.156	1.594 ± .016
16	2.90	.781	1.575	.505	.205	1.312	1.750 ± .016
20	3.25	1.026	1.906	.569	.266	1.656	2.188 ± .020
24	3.40	1.264	2.125	.625	.266	1.812	2.375 ± .020
32	3.93	1.684	2.755	.734	.328	2.375	3.000 ± .020

45 DEGREE SWIVEL FLANGE TO MATE IN ACCORDANCE WITH MSS33786

SOCKET SHAPE OPTIONAL



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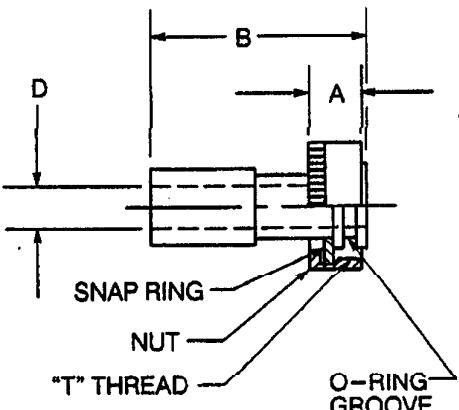
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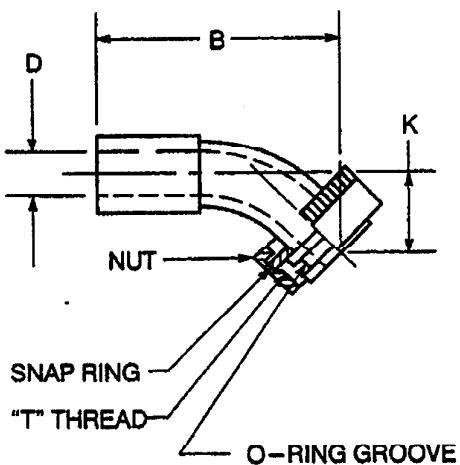
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90 DEGREE SWIVEL FLANGE TO MATE IN ACCORDANCE WITH MSS33786

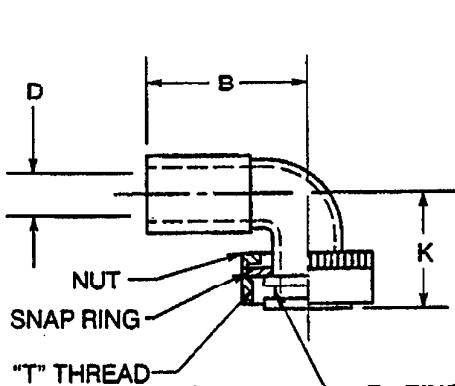
(10) STRAIGHT SWIVEL COUPLING



SIZE	B MAX	D NOM. I.D. REF	A NOMINAL REF	THREAD, T
-08	3.20	.39	.59	1.0625-20 UN-2B
-12	3.31	.59	.59	1.3125-16 UN-2B
-16	3.51	.79	.60	1.5625-16 UN-2B
-20	3.85	1.04	.62	1.7500-16 UN-2B
-24	4.18	1.28	.75	2.0000-16 UN-2B
-32	4.63	1.68	.77	2.5000-16 UN-2B



SIZE	B MAX	D NOM. I.D. REF	K NOMINAL REF	THREAD, T
-12	3.34	.59	1.12	1.3125-16 UN-2B
-16	3.55	.79	1.16	1.5625-16 UN-2B
-20	3.85	1.04	1.22	1.7500-16 UN-2B
-24	4.18	1.28	1.39	2.0000-16 UN-2B
-32	4.66	1.68	1.50	2.5000-16 UN-2B



SIZE	B MAX	D NOM. I.D. REF	K NOMINAL REF	THREAD, T
-12	2.66	.59	2.14	1.3125-16 UN-2B
-16	2.97	.79	2.21	1.5625-16 UN-2B
-20	3.35	1.04	2.43	1.7500-16 UN-2B
-24	3.60	1.28	2.76	2.0000-16 UN-2B
-32	4.22	1.68	3.14	2.5000-16 UN-2B

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