

Rubber Hose, Fittings & Assemblies for Aerospace Applications

- Lightweight and Flexible
- Qualified to Industry Standards



Powering Business Worldwide

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306 Low Pressure Hose, Fittings and Assemblies

Construction:

- **Inner Tube:** seamless synthetic rubber compound
- **Reinforcement:** single cotton braid
- **Outer Cover:** synthetic rubber cover

Operating Temperatures:

-65°F to +160°F
(-53°C to +71°C)

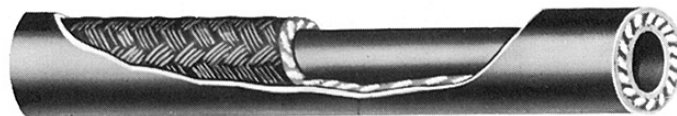
Identification:

Black cover with linear yellow indicator stripe interspersed with symbol "LP"; hose manufacturer's code, size and date of manufacture (quarter year/year). Spaced 180° from this is "Aeroquip 306" in a white stipe. Markings repeated six inches apart.

Application:

Air or vacuum instrument systems, automatic pilots and lines to pressure gauges used with these systems as specified in MS33620. Hose assemblies conform to AN6270. Hose conforms to MIL-DTL-5593. Fittings conform to MIL-DTL-38726 and MS27404.*

* Supersedes AN773



306 Hose / MIL-DTL-5593

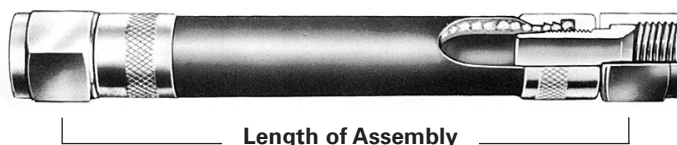
ASSEMBLY SAMPLE PART NUMBER

359 — 4D 0123
Base No. _____ Length in Eights (3/8")
Size _____ Length in Inches (12")
Material Code

COMPLETE ASSEMBLY Including 471 Fittings			HOSE							
Part No.	Tube Size O.D.	Weight 12" Ass'y (lbs.)	Part No.	Hose Size I.D.	Hose Size O.D.	Max. Oper. P.S.I.	Min. Proof P.S.I.	Min. Burst P.S.I.	Min. Bend radii	Weight per inch (lbs.)
359-2DL AN6270-2-L	1/8	.061	306-2 MIL-DTL-5593-2	.125	.344	300	600	2000	2.00	.004
359-3DL AN6270-3-L	3/16	.080	306-3 MIL-DTL-5593-3	.188	.406	250	500	1700	2.00	.005
359-4L AN6270-4-L	1/4	.106	306-4 MIL-DTL-5593-4	.250	.469	200	400	1250	4.00	.006
359-6DL AN6270-6-L	3/8	.145	306-6 MIL-DTL-5593-6	.375	.594	150	300	1000	4.00	.008
359-8DL AN6270-8-L	1/2	.236	306-8 MIL-DTL-5593-8	.500	.750	150	250	750	6.00	.012
359-10DL AN6270-10-L	5/8	.292	306-10 MIL-DTL-5593-10	.625	.875	150	250	700	6.00	.014

Flared AN818 Swivel Nut

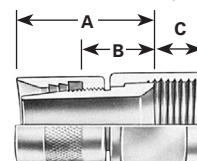
- 359 Assembly AN6270
- To mate with MS33656, MS33657, AS4395, AS4396



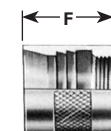
Length of Assembly

Material & Finish:

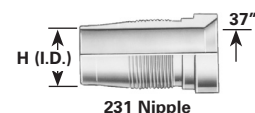
Nut, nipple and socket are anodized aluminum. All materials and finishes conform to applicable specifications for end fittings used in aircraft fluid systems.



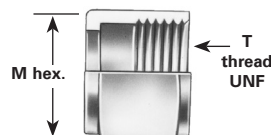
471/MS27404
Hose Fitting



(K = diameter)
213 Socket



231 Nipple



290/AN818 Nut

HOSE FITTING					SOCKET			NIPPLE		NUT			
Part No.	Max. Dim. A	Dim. B	Dim. C	Weight (lbs.)	Part No.	Dim. F	Max. Dim. K	Part No.	Min. Dim. H	Part No.	Dim. M	Max. Dim. N	Thread T
471-2D MS27404-2D*	.88	.40	.34	.008	213-2D	.531	.453	231-2D	.059	290-2D	.375	.436	5/16 - 24
471-3D MS27404-3D*	1.00	.44	.32	.012	213-3D	.562	.516	231-3D	.122	290-3D	.438	.509	3/8 -24
471-4D MS27404-4D*	1.04	.47	.35	.020	213-4D	.625	.578	231-4D	.169	290-4D	.563	.654	7/16 -20
471-6D MS27404-6D*	1.15	.54	.38	.029	213-6D	.650	.703	231-6D	.294	290-6D	.688	.798	9/16 -18
471-8D MS27404-8D*	1.37	.67	.43	.054	213-8D	.800	.891	231-8D	.388	290-8D	.875	1.014	3/4 -16
471-10D MS27404-10D*	1.57	.72	.51	.072	213-10D	.950	.953	231-10D	.481	290-10D	1.000	1.158	7/8 -14

All dimensions in inches.

* Supersedes AN773.

303, 302A Medium Pressure Hose, Fittings, and Assemblies

Construction:

- **Inner Tube:** seamless synthetic rubber compound
- **Reinforcement:** synthetic impregnated single-wire braid over single cotton braid
- **Outer Cover:** synthetic impregnated oil-resistant cotton braid

Operating Temperatures:

- 303 Hose: -65° to +250°F
- 302A Hose: -40° to +250°F

Identification:

Grey-black braided cover with linear yellow marking consisting of — "MIL-DTL-8794 ,size, date of manufacture (quarter year/year) and hose manufacturer's code." Spaced 90° from this is a yellow indicator stripe interspersed with "Aeroquip 303" or "Aeroquip 302A." Markings repeated nine inches apart.

Application:

Medium pressure hydraulic, pneumatic, fuel, oil and coolant systems specified in MS33620. Hose assemblies conform to MIL-DTL-8795 and MS28741. Hose conforms to MIL-DTL-8794. Fittings conform to MIL-A-5070 and MS24587.* Hose may be used in submerged applications.

* Supersedes MS28740, fittings dimensionally and functionally interchangeable.



303, 302A/ MIL-DTL-8794 Hose

ASSEMBLY SAMPLE PART NUMBER

Base No. 350 — 6 — 0123

Size

* Length in Eights (3/8")
* Length in Inches (12")

* Use D instead of (-) after size for -8 and larger

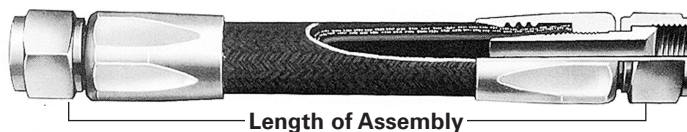
COMPLETE ASSEMBLY Including 491 Fittings			HOSE							
Part No.	Tube Size O.D.	Weight 12" Ass'y (lbs.)	Part No.	Hose Size I.D.	Hose Size O.D.	Max. Oper. P.S.I.	Min. Proof P.S.I.	Min. Burst P.S.I.	Min. Bend radii**	Weight per inch (lbs.)
350-3-L † MS28741-3-L	3/16	.175	303-3 MIL-DTL-8794-3	.125	.453	3000	6000	12000	3.00	.010
350-4-L †† MS28741-4-L	1/4	.228	303-4 MIL-DTL-8794-4	.188	.516	3000	6000	12000	3.00	.011
350-5-L MS28741-5-L	5/16	.279	303-5 MIL-DTL-8794-5	.250	.578	3000	5000	10000	3.38	.013
350-6-L MS28741-6-L	3/8	.391	303-6 MIL-DTL-8794-6	.313	.672	2000	4500	9000	4.00	.019
360-8-DL MS28741-8-L	1/2	.417	303-8 MIL-DTL-8794-8	.406	.766	2000	4000	8000	4.62	.022
360-10-DL MS28741-10-L	5/8	.580	303-10 MIL-DTL-8794-10	.500	.922	1750	3500	7000	5.50	.031
360-12-DL MS28741-12-L	3/4	.750	303-12 MIL-DTL-8794-12	.625	1.078	1500	3000	6000	6.50	.038
390A16DL MS28741-16-L	1	.824	302A16 MIL-DTL-8794-16	.875	1.234	800	1600	3200	7.38	.037
390A20DL MS28741-20-L	1 1/4	1.274	302A20 MIL-DTL-8794-20	1.125	1.500	600	1250	2500	9.00	.043
390A24DL MS28741-24-L	1 1/2	1.558	302A24 MIL-DTL-8794-24	1.375	1.750	500	1000	2000	11.00	.056
390A32DL MS28741-32-L	2	2.453	302A32 MIL-DTL-8794-32	1.812	2.219	350	700	1400	13.25	.078

** At maximum operating pressure.
† Not to be used in hydraulic systems.

†† May be used where dynamic impulse does not exceed 3750 psi. If dynamic impulses of 4500 psi are required MIL-H-8790 hose assemblies shall be used.

Flared AN818 Swivel Nut

- 350, 360, 390A Assembly MS28741
- To mate with MS33656, MS33657, AS4395, AS4396



HOSE FITTING					SOCKET			NIPPLE		NUT			
Part No.	Max. Dim. A	Dim. B	Dim. C	Weight (lbs.)	Part No.	Dim. F	Max. Dim. K	Part No.	Min. Dim. H	Part No.	Dim. M	Max. Dim. N	Thread T
491-3 *MS24587-3	1.43	.65	.32	.034	210-3D MS24590-3	1.000	.630	251-3 MS24588-3	.123	290-3	.438	.51	3/8 - 24
491-4 *MS24587-4	1.51	.65	.35	.055	210-4D MS24590-4	1.100	.693	251-4 MS24588-4	.170	290-4	.563	.65	7/16 - 20
491-5 *MS24587-5	1.64	.74	.38	.071	210-5D MS24590-5	1.200	.755	251-5 MS24588-5	.232	290-5	.625	.72	1/2 - 20
491-6 *MS24587-6	1.79	.77	.38	.096	210-6D MS24590-6	1.300	.880	251-6 MS24588-6	.295	290-6	.688	.80	9/16 - 18
491-8D *MS24587-8	2.22	.94	.43	.097	215-8D MS24590-8	1.650	1.005	251-8D MS24588-8	.390	290-8D	.875	1.01	3/4 - 16
491-10D *MS24587-10	2.42	1.00	.51	.135	215-10D MS24590-10	1.800	1.234	251-10D MS24588-10	.484	290-10D	1.000	1.16	7/8 - 14
491-12D *MS24587-12	2.70	1.00	.57	.185	215-12D MS24590-12	2.100	1.359	251-12D MS24588-12	.608	290-12D	1.250	1.45	1 1/16 - 12
491-16D *MS24587-16	2.34	.94	.60	.220	212-16D MS24591-16	1.661	1.546	251-16D MS24589-16	.810	290-16D	1.500	1.74	1 5/16 - 12
491-20D *MS24587-20	2.48	1.00	.64	.422	212-20D MS24591-20	1.750	1.921	251-20D MS24589-20	1.042	290-20D	2.000	2.33	1 5/8 - 12
491-24D *MS24587-24	2.67	1.09	.74	.504	212-24D MS24591-24	1.845	2.124	251-24D MS24589-24	1.276	290-24D	2.250	2.62	1 7/8 - 12
491-32D *MS24587-32	3.21	1.24	.93	.850	212-32D MS24591-32	2.250	2.640	251-32D MS24589-32	1.745	290-32D	2.875	3.34	2 1/2 - 12

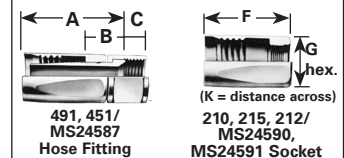
All dimensions in inches.

* Supersedes MS28740, fittings dimensionally and functionally interchangeable.

Material & Finish:

Nut and nipple, sizes 3 through 6, cadmium-plated steel. Nut and nipple sizes 8 and up, and socket, anodized aluminum. All materials and finishes conform to applicable specifications for end fittings used in aircraft fluid systems.

Elbow fittings are available for 303, 302A hose.

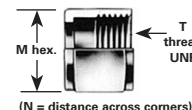


491, 451/
MS24587
Hose Fitting

210, 215, 212/
MS24590,
MS24591 Socket



251, 271/MS24588,
MS24589 Nipple



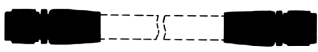
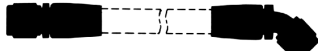
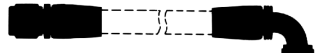
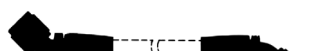
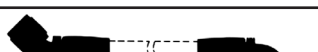
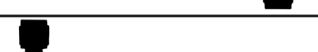
290/AN818 Nut

303, 302A Medium Pressure, Flared Hose Assemblies

-4 through -10 and -12 through -32

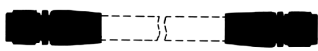
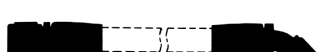
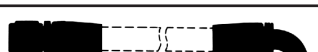
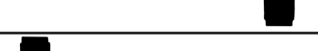
-4 through -10

Flared AN818 Swivel Nut Fittings and Assemblies

Fitting A	Fitting B	Type	Material	Fitting A Part No.	Assembly Base No.	Fitting B Part No.
	Un sleeved	Alum.		491	360	491
		Alum.		451	390A	451
		Steel		491	350	491
	Firesleeve	Alum.		491 or 451	624000	491 or 451
		Steel		491 or 451	624000	491 or 451
	Un sleeved	Alum.		491 or 451	950012	980006
		Steel		491 or 451	950012	980006
	Firesleeve	Alum.		491 or 451	624040	980006
		Steel		491 or 451	624040	980006
	Un sleeved	Alum.		491 or 451	950004	980005
		Steel		491 or 451	950004	980005
	Firesleeve	Alum.		491 or 451	624023	980005
		Steel		491 or 451	624023	980005
	Un sleeved	Alum.		980006	950010	980006
		Steel		980006	950816	980006
	Firesleeve	Alum.		980006	630907	980006
		Steel		980006	624071	980006
	Un sleeved	Alum.		980006	950003	980005
		Steel		980006	950668	980005
	Firesleeve	Alum.		980006	630908	980005
		Steel		980006	624055	980005
	Un sleeved	Alum.		980005	950002	980005
		Steel		980005	950680	980005
	Firesleeve	Alum.		980005	630909	980005
		Steel		980005	624036	980005

-12 through -32

Flared AN818 Swivel Nut Fittings and Assemblies

Fitting A	Fitting B	Type	Material	Fitting A Part No.	Assembly Base No.	Fitting B Part No.
	Un sleeved	Alum.		91	360	491
		Alum.		451	390A	451
		Steel		491	350	491
	Firesleeve	Alum.		491 or 451	624000	491 or 451
		Steel		491 or 451	624000	491 or 451
	Un sleeved	Alum.		491 or 451	950234	980136
		Steel		491 or 451	950234	980136
	Firesleeve	Alum.		491 or 451	624037	980136
		Steel		491 or 451	624037	980136
	Un sleeved	Alum.		491 or 451	950192	980137
		Steel		491 or 451	950192	980137
	Firesleeve	Alum.		491 or 451	624066	980137
		Steel		491 or 451	624066	980137
	Un sleeved	Alum.		980136	950247	980136
		Steel		980136	950817	980136
	Firesleeve	Alum.		980136	624089	980136
		Steel		980136	630910	980136
	Un sleeved	Alum.		980136	950233	980137
		Steel		980136	950818	980137
	Firesleeve	Alum.		980136	630911	980137
		Steel		980136	624912	980137
	Un sleeved	Alum.		980137	950248	980137
		Steel		980137	950819	980137
	Firesleeve	Alum.		980137	630905	980137
		Steel		980137	630913	980137

303, 302A Medium Pressure, Flareless Fittings and Assemblies

Globeseal Flareless

- 950532 Assembly
- To mate with MS33514, MS33515, AS33514, AS33515

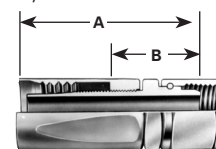


HOSE FITTING (Globeseal)				SOCKET				NIPPLE ASSEMBLY (Globeseal)				
Part No.	Max. Dim. A	Dim. B	Weight (lbs.)	Part No.	Dim. F	Dim. G	Max. Dim. K	Part No.	Min. Dim. H	Dim. M	Max. Dim. N	Thread T
440-4	1.78	.94	.068	210-4D	1.100	.625	.693	440-3-4	.170	.562	.65	7/16 - 20
440-5	1.92	1.05	.081	210-5D	1.200	.688	.755	440-3-5	.232	.625	.72	1/2 - 20
440-6	2.11	1.11	.122	210-6D	1.300	.812	.880	440-3-6	.295	.688	.80	9/16 - 18
440-8D	2.58	1.33	.117	215-8D	1.650	.938	1.005	440-3-8D	.390	.875	1.01	3/4 - 16
440-10D	2.84	1.46	.167	215-10D	1.800	1.125	1.234	440-3-10D	.484	1.000	1.16	7/8 - 14
440-12D	3.14	1.47	.222	215-12D	2.100	1.250	1.359	440-3-12D	.608	1.250	1.45	1 1/16 - 12
440-16D	2.97	1.60	.286	212-16D	1.661	1.438	1.546	440-3-16D	.810	1.500	1.74	1 5/16 - 12
440-20D	3.17	1.72	.503	212-20D	1.750	1.750	1.921	440-3-20D	10.42	2.000	2.33	1 5/8 - 12
440-24D	3.49	1.94	.606	212-24D	1.845	1.938	2.124	440-3-24D	1.276	2.250	2.62	1 7/8 - 12

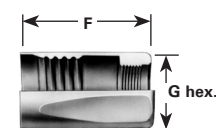
All dimensions in inches.

Material & Finish:

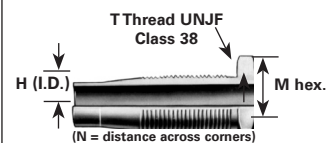
Nut and nipple, sizes 4 through 6, cadmium-plated steel. Nut and nipple sizes 8 and up, and socket, anodized aluminum. All materials and finishes conform to applicable specifications for end fittings used in aircraft fluid systems.



440
Hose Fitting



(K = distance across corners)
210, 215, Socket



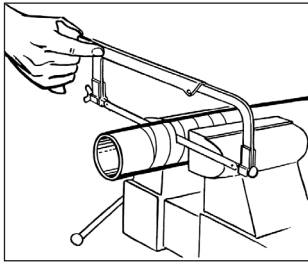
T Thread UNJF
Class 38
440-3-Size
Nipple Assembly

Globeseal Flareless Assemblies

Fitting A	Fitting B	Type	Material	Fitting A Part No.	Assembly Base No.	Fitting B Part No.
		Unsleeved	Alum.	440	950532	440
		Firesleeve	Steel	440	950532	440
		Unsleeved	Alum.	440	950781	980688
		Firesleeve	Steel	440	950781	980688
		Unsleeved	Alum.	440	950645	980569
		Firesleeve	Steel	440	950645	980569
		Unsleeved	Alum.	980688	630947	980569
		Firesleeve	Steel	980688	630946	980569
		Unsleeved	Alum.	980688	950785	980688
		Firesleeve	Steel	980688	950782	980688
		Unsleeved	Alum.	980688	630949	980688
		Firesleeve	Steel	980688	630949	980688
		Unsleeved	Alum.	980688	950786	980569
		Firesleeve	Steel	980688	950783	980569
		Unsleeved	Alum.	980688	630951	980569
		Firesleeve	Steel	980688	630950	980569
		Unsleeved	Alum.	980569	950787	980569
		Firesleeve	Steel	980569	950784	980569
		Unsleeved	Alum.	980569	630953	980569
		Firesleeve	Steel	980569	630952	980569

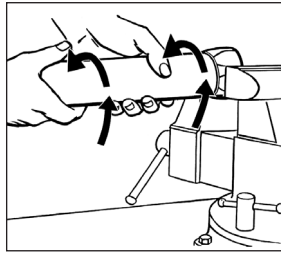
Aircraft Rubber Hose Assembly Instructions

306, 303 and 302A Hose



Step 1.

Cut hose squarely to length. Use hose cut-off machine or fine tooth hacksaw. Do not remove the cover if using a hacksaw; wrap hose with several layers of tape before cutting.

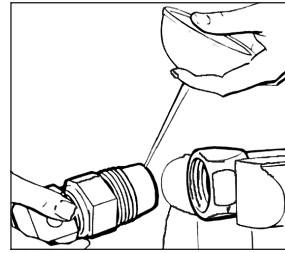


Step 2.

Place socket in vise. Do not over-tighten vise on thin walled sockets of lightweight fittings. Screw hose counter-clockwise into socket until it bottoms. Back off 1/4 turn.

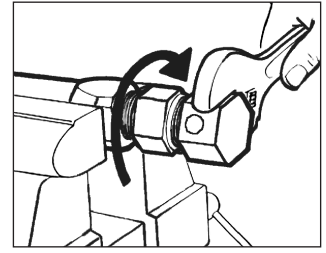
Step 3.

Tighten nipple and nut on assembly mandrel. The use of Aeroquip S1051 hand assembly tools are recommended to avoid damage to the sealing surface and to properly support the inner tube.



Step 4.

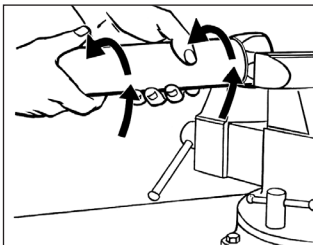
Lubricate inside of hose and nipple threads liberally. Use lubricating oil, petrolatum or light grease.



Step 5.

Screw nipple into socket and hose using wrench on assembly tool hex. Nut must swivel freely when assembly tool is removed. Maximum allowable gap between nut and socket is 1/16". On -32 screw in until turning becomes difficult, back out nipple, relubricate and reassemble.

Elbow Hose Assemblies - 303 and 302A

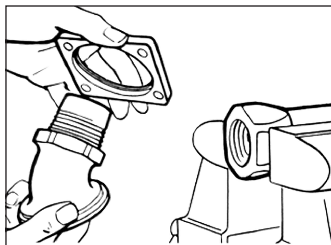


Step 1.

Cut hose squarely to length. Use hose cut off machine or fine tooth hacksaw. If using a hacksaw, wrap hose with tape before cutting. Do not remove cover.

Step 2.

Place socket in vises. Do not over-tighten vise on thin walled sockets of lightweight fittings. Screw hose counter-clockwise into socket until it bottoms. Back off 1/4 turn.



Step 3.

Flange elbow fittings. Drop flange over threaded end of nipple. Nipple shoulder must fit into counter bore of flange.

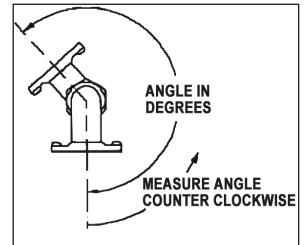
Step 4.

Lubricate inside of hose and nipple threads liberally. Use lubricating oil, petrolatum or light grease.



Step 5.

Screw nipple into socket and hose using wrench on elbow hex. Tighten until hex is snug against socket. On -32 and larger sizes, screw in until turning becomes difficult, back out nipple, relubricate and reassemble.



Step 6.

Adjustments may be necessary to obtain the desired position angle between two elbows. In order to minimize backing off elbows to position, the following procedure should supplement Step 5.

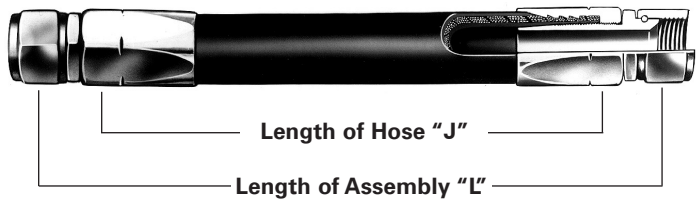
A. Tighten both elbows to maximum allowable gap (reference Step 6C), then start to position for relative angle between the elbows.

B. Finish assembly by adjusting both elbows. Backing-off to position should be avoided and in no case should exceed 1/4 turn.

C. Maximum allowable gap between nipple hex and socket is 1/16" using 303 and 302A hose.

Hose Cut-off Factors

Cut off factors shown below indicate difference (in inches) between Length "L" and Length "J" illustrated on sample hose assembly.



				HOSE DASH SIZE											
		HOSE	ASSEMBLY	-2	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
Low Pressure	306	Flared Fittings	Straight Swivel to Straight Swivel	.80	.88	.94	—	1.08	1.34	1.44	—	—	—	—	—
	303	Flared Fittings	Straight Swivel to Straight Swivel	—	1.32	1.30	1.50	1.54	1.90	2.02	2.02	1.90	2.00	2.18	2.50
Medium Pressure	302A	Globeseal	Straight Swivel to	—	—	1.88	2.10	2.22	2.66	2.92	2.94	3.20	3.44	3.88	4.74
	303	Flareless Fittings	Straight Swivel to	—	—	1.88	2.10	2.22	2.66	2.92	2.94	3.20	3.44	3.88	4.74

S1385 Hose Cutoff Saw



Eaton's Aeroquip S1385 Hose Cutoff Saw is compact and easy to operate. The spring arm is designed with an improved stabilizer to insure fast and efficient cutting of hydraulic hoses. The S1385 saw will cut single wire braid hoses through 1.25 inches and 2-wire braid hoses through 1 inch as well as textile hoses through 2 inches.

The S1385 cutoff saw is easily bench-mounted eliminating the need for a special stand. It is also equipped with a safety clutch to prevent motor damage in case of binding. The blade is well guarded and can easily be changed. See brochure AEB-262 for more details.

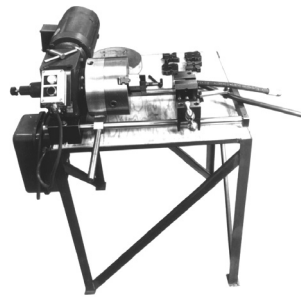
S1385 Features

- Low Cost
- Compact
- Easy Operation
- Bench-Mounted
- Built-in Safety Features
- U.L. Listed

Electrical Requirements

2 1/2 horsepower electric motor.
115V, single phase, AC-DC, 5-60 Hz, 5200 rpm.

S1380 Hose Assembly Machine



Eaton designed the S1380 hose assembly machine to simplify and speed the assembly of hoses with standard screw together reusable fittings.

The machine features a durable 1 H.P., 3-phase, 60 cycle electric brakemotor operating at 1750 R.P.M. The motor is "C" face mounted to a speed reducer which provides a working spindle with 58.3 R.P.M. With the S1380 machine you can quickly assemble straight or elbow-type reusable fittings on medium pressure hoses in sizes -3 (3/16") through -12 (3/4") and high pressure hoses in sizes -4 (1/4") through -12 (3/4").

This hose assembly machine is simple to operate with an easily adjusted spindle lock for changing mandrels or operations and a carriage vise for accurate fitting assembly.

The complete machine comes with two sets of chuck jaws, five mandrels and operator's manual. See brochure AEB-257 for complete information.

Electrical Requirements

230/460V, 3 phase, 60 cycle, 120V

Machine Specifications

Dimensions: 12" high x 34" long x 27" wide

Weight: 200 lbs. (approx.)

Hose Range: -3 (3/16") through -12 (3/4"), medium pressure -4 (1/4") through -12 (3/4"), high pressure

Motor Power: 1 horsepower

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