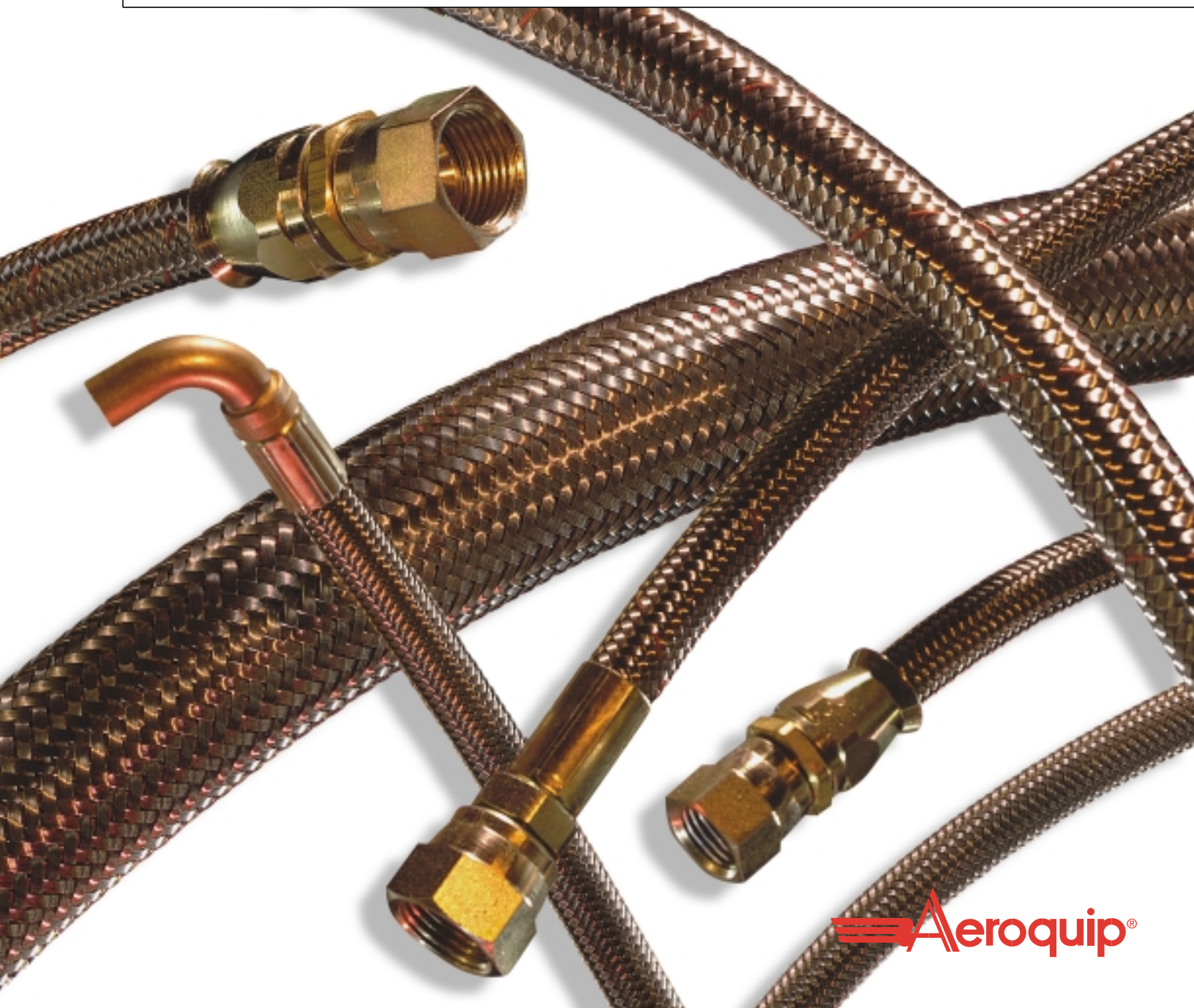
Aeroquip

PTFE Hose and Fittings

Technical Catalog



Eaton is a global diversified industrial manufacturer of highly engineered products that serve industrial, vehicle, construction, commercial, and aerospace markets. Principal products include hydraulic products and fluid connectors, electrical power distribution and control equipment, truck drivetrain systems, engine components, and a wide variety of controls. The company has 59,000 employees and 195 manufacturing sites in 24 countries. The Internet address for Eaton is: http://www.eaton.com/

The PTFE Advantage

Aeroquip PTFE hose is ideally suited for applications requiring maximum flexibility, high-pressure ratings, chemical and temperature resistance, and extremely long life. Aeroquip PTFE hose offers the following advantages:

Flexible–The flexibility of Aeroquip PTFE hose provides excellent resistance to failure in fatigue and flexing applications.

Chemical Resistant–PTFE is inert, thus creating a nearly "universal" hose capable of handling the broadest range of applications.

Temperature Resistant–It even handles steam–up to +388°F.

Non-Stick–PTFE hose is easily cleaned to maintain batch purity when using one hose for several services.

Low Friction–PTFE hose exhibits low-pressure drop that remains constant because no deposits accumulate on the inside wall of the hose.

Moisture Resistant–Ideal for pneumatic systems requiring low-dew point.

Non-Aging–Properties of PTFE hose do not change with age or exposure to weather.

Introduction

Manufacturing Experience–Since 1963, Eaton has been producing industrial hose and fittings at modern manufacturing plants that employ exacting standards. By manufacturing our own PTFE hose and fittings, we control product quality and provide you with the kind of reliability you have come to expect from Eaton.

Quality Control/Testing–Extensive laboratory testing is the cornerstone of Eaton quality. Both smooth-bore and convoluted PTFE hose styles are subjected to vacuum, impulse, burst, oven aging, and cold flex tests to ensure that quality has been designed into every hose. Along with lab testing, PTFE hose is also field tested before it is released to manufacturing. Samples of Aeroquip PTFE hose are regularly field tested to the same rigid standards developed in engineering and initial product testing. These quality control checks along the way help to ensure that Aeroquip PTFE hose and fittings provide the reliability you require.

In-Stock Availability–Eaton operates a worldwide network of stocking distributors that can supply any customer the right PTFE hose, fitting, assembly, and related accessory or assembly equipment necessary to handle practically any industrial application. This distributor network is backed by Eaton's complete inventory of virtually any size or style of PTFE hose, fittings, and adapters. From distributor to manufacturer, Eaton can get the right materials to your operation quickly and efficiently.

Field Service Capability–Eaton employs highly-trained field personnel to help our distributors and customers troubleshoot virtually any fluid and/or pneumatic application using Aeroquip smooth bore or convoluted PTFE hose and fittings. If it's a problem that can't be handled over the phone, Eaton can dispatch a field service engineer to handle the problem on the spot. Our trained distributors and field service engineers provide assistance on routing, assembly, or any related hydraulic problem.

Proven Product Performance–Aeroquip smooth bore and convoluted PTFE hose styles have been proven in a wide range of industrial, aerospace, and defense applications. In applications where steam, chemicals, or other exotic fluids are involved, Aeroquip PTFE hose provides reliable fluid conveyance with excellent resistance to corrosion or chemical attack within an extreme temperature range. Aeroquip PTFE hose has been used on professional race cars, naval ships, aircraft, and in a myriad of industrial applications.

Example of PTFE Applications

Molding–PTFE hose handles steam up to 388°F @ 200 psi steam pressure for heating of plastic and rubber molding presses.

Urethane Foam Manufacturing–PTFE hose handles isocynates and other activators at the high pressures in foam manufacturing processes.

Gas Transfer/Breathing Apparatus–PTFE hose exhibits low permeability to 0_2, N_2, & Argon under high pressure.

Marine Hydraulic Control & Power Systems–PTFE hose is resistant to fire resistant and water emulsion hydraulic fluids used in marine systems.

Steam Applications–PTFE hose is ideal for use on heating lines on dryers in processing plants and as lines that provide steam to laundry garment presses.

Fuel Lines–PTFE, when used as a fuel hose, is resistant to the blending of additives in fuels. Aeroquip FC465 and FC469 hose styles have conductive inner tubes that decrease the occurrence of the buildup of static charge.

Compressor Discharge Hose–With most compressor discharge applications operating above 300°F, PTFE hose is the obvious choice over rubber hose. Less carbon particles deposit on PTFE due to its inherent release properties.

Chemical Handling–PTFE hose solves chemical handling problems – whether its low permeability or low buildup – in leading stations, on flexible connections between chemical pipework, and in laboratories.

Adhesives–PTFE hose handles the adhesives that are present in shoe manufacturing, canning operations, and carbon manufacturing.

Why Use Aeroquip Convoluted Hose?

- Increased flexibility
- Tighter bend radius:

Hose Size	Convoluted Minimum Bend Radius (Inches)	Conventional Smooth-Bore PTFE (Inches)
-8	2.88	5.25
-12	3.75	7.75
-16	5.00	9.00
-20	6.25	16.00
-24	7.50	–
-32	10.00	–

- Operating temperature -65°F (-54°C) to +400°F (+204°C)
- Available in a wide size range (-8 to -32) when compared to smooth-bore hose.
- Spun polyester hose with advanced abrasion resistance is available.
- Conductive tube to dissipate electric charge buildup is available.

How to Order

Accurate processing and prompt delivery of your order depend on easy identification of your requirements. Please order Aeroquip parts using correct part numbers as described in this catalog. Inquiries and orders should be directed to your Aeroquip Products Distributor.

Part Numbers and Dash Sizes

Dash size designates the nominal size in 16ths of an inch. This number immediately follows the part number and is separated from it with a dash.

Dimensions

Dimensions given in this catalog for Aeroquip products are approximate and should be used for reference only. Exact dimensional information for a given product is subject to change and varying tolerances; contact Eaton directly for full current information.

Cut Length Hose

For alpha-numeric part numbers: 2807- 4- 00484

Hose type — 2807

Hose dash size — 4

Cut length (in inches) — 00484

last digit is in $^1/_8$ths of an inch 00484 = 48$^1/_2$ inches

Bulk Hose

Bulk hose should be ordered by specifying length in feet as shown below.

Complete number: 500 ft.- 2807-4

Quantity (in feet) — 500 ft.

Hose type — 2807

Hose size (in 16ths of an inch) — 4

Note: Length tolerance for hose, assemblies and sleeves is:
Up to and including 12 inches: ±⅛″
Above 12 inches to and including 18 inches: ±$^3/_{16}$″
Above 18 inches to and including 36 inches: ±¼″
Above 36 inches: ±1% of length

Fittings

Fittings are ordered as complete assemblies.

Complete number: FJ9587-08 08 S

Basic part number — FJ9587

Pipe or port size (in 16ths of an inch) — 08

Mating hose size — 08

Material designation suffix — S
("S" designates plated carbon steel)

WARNING

Aeroquip manufactures the terminal ends of our hose fittings to the appropriate requirements established by the SAE. Therefore, the performance ratings of these hose fittings meet the SAE requirements. It is possible to order a hose assembly with a fitting terminal end that has a performance rating lower than the hose rating. When ordering hose assemblies, please keep the terminal end performance rating in mind since this may affect overall hose assembly performance.

Many hose assembly components (hose and fittings) are easily assembled in the field. However, factory assembled swaged, crimped and reusable hose assemblies are available. For complete information, contact Aeroquip.

MIXING/MATCHING

AEROQUIP FITTING TOLERANCES ARE ENGINEERED TO MATCH AEROQUIP HOSE TOLERANCES. THE USE OF AEROQUIP FITTINGS ON HOSE SUPPLIED BY OTHER MANUFACTURERS AND/OR THE USE OF AEROQUIP HOSE WITH FITTINGS SUPPLIED BY OTHER MANUFACTURERS MAY RESULT IN THE PRODUCTION OF UNRELIABLE AND UNSAFE HOSE ASSEMBLIES AND IS NEITHER RECOMMENDED NOR AUTHORIZED BY AEROQUIP.

AEROQUIP SHALL NOT BE SUBJECT TO AND DISCLAIMS ANY OBLIGATIONS OR LIABILITIES (INCLUDING BUT NOT LIMITED TO ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES) ARISING OUT OF BREACH OF CONTACT OR OF WARRANTY OR ARISING FROM TORT CLAIMS (INCLUDING WITHOUT LIMITATION NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES OF LAW WITH RESPECT TO ANY HOSE ASSEMBLIES NOT PRODUCED FROM GENUINE AEROQUIP HOSE FITTINGS, HOSE AND AEROQUIP APPROVED EQUIPMENT, AND IN CONFORMANCE WITH AEROQUIP PROCESS AND PRODUCT INSTRUCTIONS FOR EACH SPECIFIC HOSE ASSEMBLY.

FAILURE TO FOLLOW AEROQUIP PROCESS AND PRODUCT INSTRUCTIONS AND LIMITATIONS COULD LEAD TO PREMATURE HOSE ASSEMBLY FAILURES RESULTING IN PROPERTY DAMAGE, SERIOUS INJURY OR DEATH.

Average Length Patterns of PTFE Hoses

Part Number	Minimum Length	Average Length	Maximum Length
	FEET	FEET	FEET
2807-3	5	125	300
2807-4	5	180	300
2807-5	5	133	200
2807-6	5	88	200
2807-8	5	60	100
2807-10	5	105	200
2807-12	5	73	100
2807-16	5	26	60
2807-20	5	22	50
2808-8	5	63	100
2808-10	5	75	150
2808-12	5	33	60
2808-16	5	28	50
2808-20	5	23	50
2808-24	5	23	40
FC363-12	5	22	30
FC363-16	5	28	50
FC363-20	5	36	60
FC363-24	5	33	50
FC363-32	5	25	30
FC364-12	5	22	30
FC364-16	5	36	50
FC364-20	5	36	60
FC364-24	5	33	50
FC364-32	5	25	30
FC465-04	5	145	300
FC465-06	5	88	200
FC465-08	5	63	100
FC465-10	5	75	150
FC465-12	5	58	100
FC469-06	5	54	100
FC469-08	5	37	50
FC469-10	5	35	60
FC563-12	5	24	60
FC563-16	5	24	60
FC563-20	5	28	60
FC807-04	5	180	300
FC807-05	5	133	200
FC807-06	5	88	200
FC807-08	5	60	100
FC807-10	5	105	200
FC807-12	5	73	100
FC807-16	5	26	60

Agency Approvals for 2807

	SAE J1942-1 Marine Applications	Lloyd's Register of Shipping (UK)	Germanischer Lloyd (Deutschland)	Det Norske Veritas (DNV)	American Bureau of Shipping (ABS)	Nippon Kaiji Kyokai	Registro Italiano Navale
2807-3	X^*	X*‡	X*‡		X*‡	X*‡	X*‡
2807-4	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-5	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-6	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-8	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-10	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-12	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-16	X^*	X*‡	X*‡	X*^	X*‡	X*‡	X*‡
2807-20	X^†	X*‡	X*‡	X*^	X*‡	X*‡	X*‡

* Qualification with both Aeroquip PTFE reusable and crimp fittings
^ Qualification with Aeroquip 624 Fire Sleeve and without Fire Sleeve
‡ Qualification with 624 Fire Sleeve only
† Qualification with only Aeroquip PTFE reusable fittings

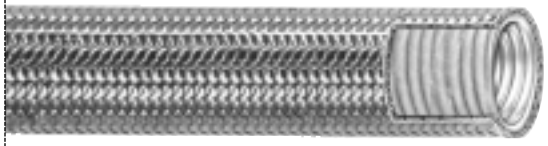
Agency Approvals for 2808

	SAE J1942-1 Marine Applications	Lloyd's Register of Shipping (UK)	Germanischer Lloyd (Deutschland)	American Bureau of Shipping (ABS)	Nippon Kaiji Kyokai	Registro Italiano Navale
2808-8	X*^	X*‡	X*‡	X*‡	X*‡	X*‡
2808-10	X*^	X*‡	X*‡	X*‡	X*‡	X*‡
2808-12	X*^	X*‡	X*‡	X*‡	X*‡	X*‡
2808-16	X*^	X*‡	X*‡	X*‡	X*‡	X*‡
2808-20	X*^	X*‡	X*‡	X*‡	X*‡	X*‡
2808-24	X*^	X*‡	X*‡	X*‡	X*‡	X*‡*

* Qualification with only Aeroquip PTFE reusable fittings
^ Qualification with Aeroquip 624 Fire Sleeve and without Fire Sleeve
‡ Qualification with 624 Fire Sleeve only

FC363

Convoluted PTFE hose
Nonconductive tube



Part Number	Hose I.D.	Hose O.D.	Maximum Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Minimum Kink Radius	Vacuum Service
	INCHES	INCHES	PSI	PSI	INCHES	INCHES	INCH/Hg
FC363-12	.81	1.06	1100†	4400	3.75	2.00	28
FC363-16	1.00	1.28	1000†	4000	5.00	2.50	24
FC363-20	1.24	1.53	1000†	4000	6.25	3.50	20
FC363-24	1.52	1.81	750†	3000	7.50	4.50	12
FC363-32	2.00	2.31	500†	2000	10.00	6.00	5

Construction: Convoluted PTFE tube with stainless steel single wire braid cover.

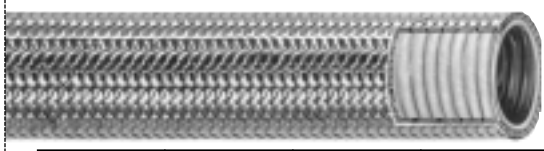
Application: Chemical, food, water and waste handling, and various transfer applications. Not recommended for steam-cold water cycling.

Operating Temperature Range: –65°F to +400°F (–54°C to +204°C).

†Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements, contact Eaton Aeroquip.

FC364

Convoluted PTFE hose
Conductive



Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Minimum Kink Radius	Vacuum Service
	INCHES	INCHES	PSI	PSI	INCHES	INCHES	INCH/Hg
FC364-12	.81	1.06	1100†	4400	3.75	2.00	28
FC364-16	1.00	1.27	1000†	4000	5.00	2.50	24
FC364-20	1.24	1.53	1000†	4000	6.25	3.50	20
FC364-24	1.52	1.81	750†	3000	7.50	4.50	12
FC364-32	2.00	2.31	500†	2000	10.00	6.00	5

Construction: Convoluted conductive PTFE tube with stainless steel wire braid cover.

Application: Steam lines and fuel transfer applications where static dissipation is required. Not recommended for steam-cold water cycling.

Operating Temperature Range: –65°F to +400°F (–54°C to +204°C).

†Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements, contact Eaton Aeroquip.

FC563

Convoluted PTFE hose – Abrasion Resistant
Nonconductive tube

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Minimum Kink Radius	Vacuum Service
	INCHES	INCHES	PSI	PSI	INCHES	INCH/Hg	INCH/Hg
FC563-12	.81	1.06	1100	4400	3.75	2.00	28
FC563-16	1.00	1.28	1000	4000	5.00	2.50	24
FC563-20	1.24	1.53	1000	4000	6.25	3.50	20
FC563-24	1.52	1.81	750	3000	7.50	4.50	10
FC563-32	2.00	2.31	500	2000	10.00	6.00	7

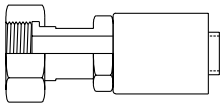
Construction: Convoluted PTFE tube with stainless steel single wire braid reinforcement and integral black polyester overbraid cover.

Application: Chemical transfer and various chemical processing applications. Not recommended for steam or steam-cold water cycling.

Operating Temperature Range: –65°F to +300°F (–54°C to +150°C).

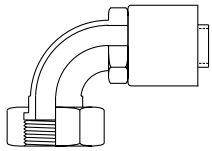
FC363, FC364 and FC563 Assembly Products

FC363, FC364 and FC563 Fittings



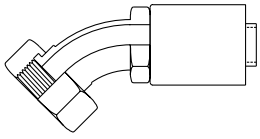
Straight ORS Female Swivel – Carbon Steel

Socket Part #	Nipple Part #	Hose Size
FC1347-16S	FJ6482-1616S	-16
FC1347-20S	FJ6482-2020S	-20
FC1347-24S	FJ6482-2424S	-24



90° Elbow, ORS Female Swivel – Carbon Steel

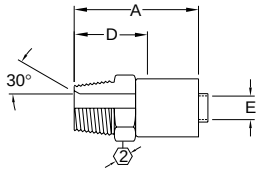
Socket Part #	Nipple Part #	Hose Size
FC1347-16S	FJ6578-1616S	-16
FC1347-20S	FJ6578-2020S	-20



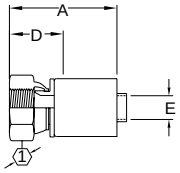
45° Elbow, ORS Female Swivel – Carbon Steel

Socket Part #	Nipple Part #	Hose Size
FC1347-16S	FJ6515-1616S	-16
FC1347-20S	FJ6515-2020S	-20
FC1348-24S	FJ6515-2424S	-24

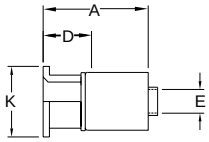
for use with Hose
FC363, FC364, FC563



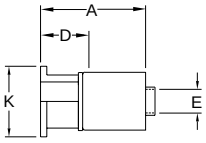
Male Pipe
FJ9588



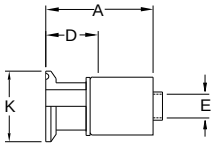
SAE 37°
(JIC) swivel
FJ9587



Flange Retainer
FJ9656



Flange Retainer
with PTFE
coated nipple
FJ9656

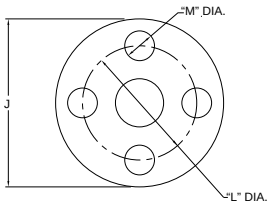


Ladish Tri-Clamp*
FJ7041

All dimensions in inches.

Complete Fitting Part Number Stainless Steel	Component Part Numbers: Nipple Assy. Stainless Steel	Component Part Numbers: Socket Stainless Steel	Thread	Hose Size	A	D	B Ø	K Ø	1	2
Male pipe stainless steel										
FJ9588–0808–341	FC1349–0808–259	FC1347–08–329	1/2-14	–08	2.54	1.30	.41			.88
FJ9588–1212–341†	FC1349–1212–259	FC1347–12–329	3/4-14	–12	2.61	1.37	.61			1.12
FJ9588–1616–341†	FC1349–1616–259	FC1347–16–329	1-11 1/2	–16	2.80	1.55	.81			1.38
FJ9588–2020–341†	FC1349–2020–259	FC1347–20–329	1 1/4-11 1/2	–20	2.95	1.70	1.05			1.75
FJ9588–2424–341†	FC1349–2424–259	FC1347–24–329	1 1/2-11 1/2	–24	3.20	1.74	1.28			2.00
FJ9588–3232–341†	FC1349–3232–259	FC1347–32–329	2-11 1/2	–32	3.46	1.96	1.75			2.50
SAE 37° (JIC) swivel stainless steel										
FJ9587–0808–331†	FJ8587–0808–331	FC1347–08–329	3/4-16	–08	2.52	1.10	.38		.88	
FJ9587–1212–331†	FJ8587–1212–331	FC1347–12–329	1 1/16-12	–12	2.55	1.23	.61		1.25	
FJ9587–1616–331†	FJ8587–1616–331	FC1347–16–329	1 5/16-12	–16	2.69	1.37	.81		1.50	
FJ9587–2020–331†	FJ8587–2020–331	FC1347–20–329	1 5/8-12	–20	2.84	1.52	1.05		2.00	
FJ9587–2424–331†	FJ8587–2424–331	FC1347–24–329	1 7/8-12	–24	3.21	1.67	1.28		2.25	
FJ9587–3232–331†	FJ8587–3232–331	FC1347–32–329	2 1/2-12	–32	3.50	1.92	1.75		2.88	
Flange retainer stainless steel										
FJ9656–0808–331	FC1373–0808–259	FC1347–08–329		–08	2.56	1.24	.41	1.38		
FJ9656–1212–331	FC1373–1212–259	FC1347–12–329		–12	2.56	1.24	.61	1.69		
FJ9656–1616–331	FC1373–1616–259	FC1347–16–329		–16	2.62	1.30	.81	2.00		
FJ9656–2020–331	FC1373–2020–259	FC1347–20–329		–20	2.62	1.30	1.05	2.50		
FJ9656–2424–331	FC1373–2424–259	FC1347–24–329		–24	3.01	1.48	1.28	2.87		
FJ9656–3232–331	FC1373–3232–259	FC1347–32–329		–32	3.05	1.48	1.75	3.62		
Flange retainer with PTFE coated nipple										
FJ9656–0808–338	FC1373–0808–337	FC1347–08–329		–08	2.56	1.24	.41	1.38		
FJ9656–1212–338	FC1373–1212–337	FC1347–12–329		–12	2.56	1.24	.61	1.69		
FJ9656–1616–338	FC1373–1616–337	FC1347–16–329		–16	2.62	1.30	.81	2.00		
FJ9656–2020–338	FC1373–2020–337	FC1347–20–329		–20	2.62	1.30	1.05	2.50		
FJ9656–2424–338	FC1373–2424–337	FC1347–24–329		–24	3.01	1.48	1.28	2.87		
FJ9656–3232–338	FC1373–3232–337	FC1347–32–329		–32	3.05	1.48	1.75	3.62		
Ladish Tri-Clamp*										
FJ7041–2416–331	FC1531–2416–259	FC1347–16–329		–16	1.98	.76	.81	1.98		
FJ7041–2424–331	FC1531–2424–259	FC1347–24–329		–24	2.24	.76	1.27	1.98		
FJ7041–3232–331	FC1531–3232–259	FC1347–32–329		–32	2.24	.76	1.75	2.51		

**Tri-Clamp is a registered trademark of the Ladish Co., Tri-clover Division.*
†Also supplied in Carbon Steel – remove suffix and replace with "s".



Flange **FC1389**

Part Number Stainless Steel	Hose Size	Number Bolt Holes	J	L	M	
FC1389–0808C	–08	4	3.50	2.38	.62	
FC1389–1212C	–12	4	3.88	2.75	.62	
FC1389–1616C	–16	4	4.25	3.12	.62	
FC1389–2020C	–20	4	4.62	3.50	.62	
FC1389–2424C	–24	4	5.00	3.88	.62	
FC1389–3232C	–32	4	6.00	4.75	.75	

FC807

Lower-Cost Solution
PTFE Hose SAE 100R14A

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Vacuum Service	Weight
	INCHES	INCHES	INCHES	PSI	PSI	INCH/HG	POUNDS/FOOT
FC807-04	.19	.30	3000	12000	2.00	28	.06
FC807-05	.26	.37	3000	12000	3.00	28	.08
FC807-06	.32	.43	2500	10000	4.00	28‡	.10
FC807-08	.42	.54	2000	8000	5.25	28‡	.12
FC807-10	.51	.63	1500	6000	6.50	28‡	.16
FC807-12	.64	.76	1200	4800	7.75	28‡	.18
FC807-16	.88	1.03	1000	4000	9.00	12‡	.26

Construction: Extruded PTFE tube with a single layer of stainless steel wire braid reinforcement and one end red Nomex*.

Application: Medium pressure use for steam, compressor discharge and virtually all chemical applications. Not recommended for steam-cold water cycling. For more specific information, consult Eaton Aeroquip.

Operating Temperature Range: -65° F to +450° F (-54°C to +204°C). Steam, 200 psi at +388°F maximum. Engineering information is available for specific critical temperature requirements.

Fittings: "*super gem*" reusable and crimp fittings see pages 12-17.

† Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements. Contact Eaton Aeroquip.
‡Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger PTFE hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected.
**Nomex is a DuPont trademark.*

2807

PTFE hose
SAE 100R14A

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Vacuum Service	Weight Per Foot
	INCHES	INCHES	PSI	PSI	INCHES	INCH/Hg	POUNDS
2807-03	.14	.25	3000	12000	1.50	28	.04
2807-04	.19	.30	3000	12000	2.00	28	.06
2807-05	.26	.37	3000	12000	3.00	28	.08
2807-06	.32	.43	2500	10000	4.00	28‡	.10
2807-08	.42	.54	2000	8000	5.25	28‡	.12
2807-10	.51	.63	1500	6000	6.50	28‡	.16
2807-12	.64	.76	1200	4800	7.75	28‡	.18
2807-16	.88	1.03	1000	4000	9.00	12‡	.26
2807-20	1.12	1.29	625	2500	16.00	12‡	.34

Construction: Extruded PTFE tube with a single layer of stainless steel wire braid reinforcement.

Application: Medium pressure use for steam, compressor discharge and virtually all chemical applications. Not recommended for steam-cold water cycling. For more specific information, consult Eaton Aeroquip.

Operating Temperature Range: -100° F to +500° F (-73°C to +260°C). Steam, 200 psi at +388°F maximum. Engineering information is available for specific critical temperature requirements.

Fittings: "*super gem*" reusable and crimp fittings see pages 12-17.

† Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements. Contact Eaton Aeroquip.
*‡Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger PTFE hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected. *Nomex is a DuPont trademark.*

FC465

PTFE hose

Conductive SAE 100R14B

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Vacuum Service	Weight Per Foot
	INCHES	INCHES	PSI	PSI	INCHES	INCH/Hg	POUNDS
FC465-04	.19	.30	3000	12000	2.00	28	.06
FC465-05	.26	.37	3000	12000	3.00	28	.08
FC465-06	.32	.43	2500	10000	4.00	28‡	.10
FC465-08	.42	.54	2000	8000	5.25	28‡	.12
FC465-10	.51	.63	1500	6000	6.50	28‡	.16
FC465-12	.64	.76	1200	4800	7.75	28‡	.18
FC465-16	.88	1.03	1000	4000	9.00	12‡	.26

Construction: Conductive extruded black PTFE tube with a single layer stainless steel wire braid reinforcement.

Application: Steam, compressor discharge and virtually all chemical applications. Not recommended for steam-cold water cycling. For more specific information, consult Eaton Aeroquip.

Operating Temperature Range: –100°F to +450°F (–73°C to +260°C). Steam, 200 psi at +388°F maximum. Engineering information is available for specific critical temperature requirements.

Fittings: "super gem" reusable and crimp fittings, see pages 12-17.

†Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements. Contact Eaton Aeroquip.
‡Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -06 and larger PTFE hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected.

2808

PTFE hose

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Vacuum Service	Weight Per Foot
	INCHES	INCHES	PSI	PSI	INCHES	INCH/Hg	POUNDS
2808-08	.42	.58	2750	11000	4.62	28‡	.19
2808-10	.51	.68	2500	10000	5.50	28‡	.26
2808-12	.64	.82	1750	7000	6.50	20‡	.30
2808-16	.88	1.09	1500	6000	7.38	15‡	.44
2808-20	1.12	1.35	1125	4500	11.00	15‡	.57
2808-24	1.38	1.62	800	3200	14.00	15‡	.70

Construction: Extruded PTFE tube with two layers of stainless steel braid reinforcement.

Application: For use where higher pressures or a tighter bend radius is required. Not recommended for steam-cold water cycling. For more specific information, contact Eaton Aeroquip.

Operating Temperature Range: –100°F to +500°F (–73°C to +232°C). Steam, 200 psi at +388°F maximum. Engineering information is available for specific critical temperature requirements.

Fittings: "super gem" reusable fittings, see page 18.

† Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements. Contact Eaton Aeroquip.
‡Maximum negative pressure for -16 and larger are suitable for hose which has suffered no external damage or kinking. If greater negative pressures are required for -16 and larger hoses, the use of an internal support coil is recommended. Use of an internal support coil in -08 and larger PTFE hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected.

FC469

PTFE hose – Hi-Pac®
Conductive

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Vacuum Service	Weight Per Foot
	INCHES	INCHES	PSI	PSI	INCHES	INCH/Hg	POUNDS
FC469-06	.30	.48	4000	16000	2.50	28‡	.17
FC469-08	.39	.61	4000	16000	2.88	28‡	.24
FC469-10	.49	.72	4000	16000	3.25	28‡	.29

Construction: A thin wall, PTFE inner tube and a Hi-Pac outer braid consisting of densely packed small diameter stainless steel wires braided in a uniform pattern.

Application: High pressure and high temperature service. Superior vibration resistance, low volumetric expansion and high temperature resistance makes it ideal for hydraulic systems. Not recommended for steam-cold water cycling. For more specific information, consult Eaton Aeroquip.

Operating Temperature Range: –65°F to +400°F (–54°C to +204°C).

Fittings: Contact Eaton Aeroquip for fitting information.

† Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements. Contact Eaton Aeroquip.
‡ Use of an internal support coil in -06 and larger PTFE hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected.

FC645

PTFE hose – Abrasion Resistant
Conductive SAE 100R14B performance

Part Number	Hose I.D.	Hose O.D.	Maximum† Operating Pressure	Minimum Burst Pressure	Minimum Bend Radius	Vacuum Service	Weight Per Foot
	INCHES	INCHES	PSI	PSI	INCHES	INCH/Hg	POUNDS
FC645-06	.32	.51	2500	10000	4.00	28‡	.10

Construction: Conductive extruded black PTFE tube with stainless steel single black wire braid abrasion resistant engine hose.

Application: Steam, compressor discharge and most chemical applications. Not recommended for steam-cold water cycling.

Operating Temperature Range: –100°F to +300°F (–73°C to +150°C).

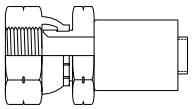
Fittings: Contact Eaton Aeroquip for fitting and crimp information.

†Steam 200 psi at +388°F max. Engineering information is available for specific critical temperature requirements. Contact Aeroquip.

‡Use of an internal support coil in -06 PTFE hose is recommended for tube support where extended or continuous service at high temperature together with low or negative pressure is expected.

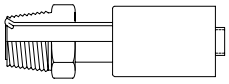
For use with hose:

FC807, FC465, 2807 and FC645



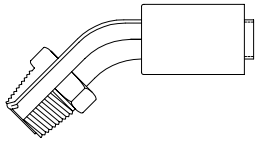
SAE 45° Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-03S	FC6216-0403S[1]	-03
FC3596-04S	FC6216-0404S[1]	-04
FC3443-04S	FC6216-0505S	-05
FC3443-05S	FC6216-0606S[1]	-06
FC3596-08S	FC6216-0808S	-08
FC3596-08S	FC6216-1008S	-08
FC3443-08S	FC6216-1010S[1]	-10
FC3596-12S	FC6216-1212S	-12



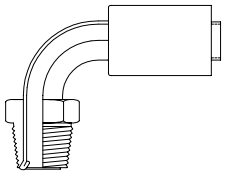
Straight SAE Male Inverted Flare—Long Tube

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FC6262-0404S	-04
FC3443-05S	FC6262-0606S	-06



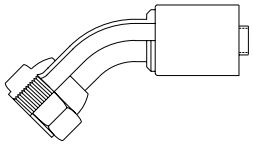
45° Elbow, SAE Male Inverted Flare

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FC6261-0404S	-04
FC3443-05S	FC6261-0606S	-06
FC3596-08S	FC6261-0808S	-08



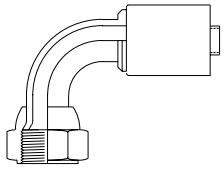
90° Elbow, SAE Male Inverted Flare

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FC6263-0404S	-04
FC3443-05S	FC6263-0606S	-06



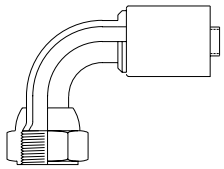
SAE 45° Elbow, SAE 45° Swivel/Universal Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FC6220-0404S	-04
FC3443-04S	FC6220-0505S	-05
FC3443-05S	FC8341-0606S	-06
FC3596-08S	FC6220-0808S	-08
FC3596-12S	FC8341-1212S	-12



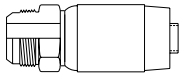
90° Elbow, SAE 45° Swivel/Universal Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-03S	FC4098-0403S	-03
FC3596-04S	FC4098-0404S	-04
FC3443-04S	FC4098-0405S	-05
FC3443-04S	FC4098-0505S	-05
FC3443-05S	FC6217-0606S	-06
FC3596-08S	FC4098-0808S	-08
FC3443-08S	FC4098-1010S	-10



90° Elbow, SAE 37° Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-03S	FC8780-0303S	-03
FC3443-05S	FC8780-0606S	-06
FC3596-12S	FC8780-1212S	-12
FC3596-16S	FC8780-1616S	-16



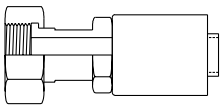
SAE 37° JIC Male Flare

Socket Part #	Nipple Part #	Hose Size
FC3443-05S	FC2786-0806S	-06

[1]For brass, drop "S" suffix; replace with -63.

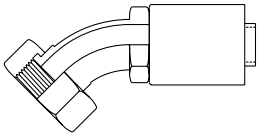
For use with hose:

FC807, FC465, 2807 and FC645



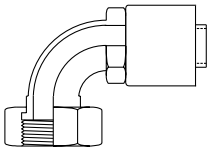
Straight ORS Female Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FJ6737-0404S	-04
FC3596-04S	FJ6737-0604S	-04
FC3443-04S	FJ6737-0605S	-05
FC3443-05S	FJ6737-0606S	-06
FC3596-08S	FJ6737-0808S	-08
FC3596-12S	FJ6737-1012S	-12



45° Elbow, ORS Female Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FJ4750-0404S	-04
FC3443-05S	FJ4441-0606S	-06
FC3596-08S	FJ4441-0808S	-08



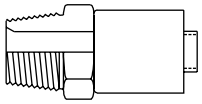
90° Elbow, ORS Female Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FJ4613-0604S	-04
FC3443-05S	FJ4613-0606S	-06
FC3596-08S	FJ4613-0808S	-08
FC3443-08S	FJ2010-1010S	-10

[1]Nipple available in brass. For brass, drop “S” suffix; replace with “-B.”
*Crimp full length of socket.

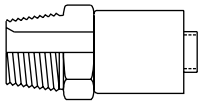
For use with hose:

FC807, FC465, 2807 and FC645



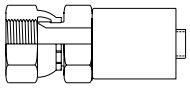
Male Pipe

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FC3680-0204S	-04
FC3596-04S	FC3680-0404S[1]	-04
FC3443-04S	FC3680-0205S	-05
FC3443-04S	FC3680-0405S	-05
FC3443-05S	FC3680-0406S[1]	-06
FC3443-05S	FC3680-0606S[1]	-06
FC3596-08S	FC3680-0608S[1]	-08
FC3596-08S	FC3680-0808S[1]	-08
FC3443-08S	FC3680-0810S[1]	-10
FC3596-1212S	FC3680-1212S[1]	-12
FC3596-1616S	FC3680-1616S[1]	-16



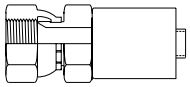
Male Pipe — Stainless Steel

Socket Part #	Nipple Part #	Hose Size
FC3596-04C	FC3680-0404-329	-04
FC3443-04C	FC3680-0405-329	-05
FC3443-05C	FC3680-0406-329	-06
FC3443-05C	FC3680-0606-329	-06
FC3443-08C	FC3680-0810-329	-10
FC3596-1212C	FC3680-1212-329	-12
FC3596-1616C	FC3680-1616-329	-16



SAE 37° (JIC) Swivel

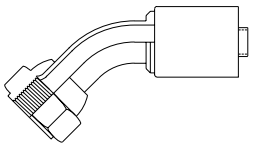
Socket Part #	Nipple Part #	Hose Size
FC3596-03S	FC8779-0303S	-03
FC3596-03S	FC8779-0403S	-03
FC3596-04S	FC8779-0404S	-04
FC3443-04S	FC8779-0505S	-05
FC3443-05S	FC8779-0606S	-06
FC3443-05S	FC8779-0806S	-06
FC3596-08S	FC8779-0808S	-08
FC3443-08S	FC8779-1010S	-10
FC3596-12S	FC8779-1212S	-12
FC3596-16S	FC8779-1616S	-16



SAE 37° (JIC) Swivel—Stainless Steel

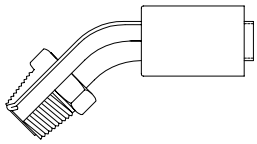
Socket Part #	Nipple Part #	Hose Size
FC3596-03S	FC8779-0303-333	-03
FC3596-04C	FC8779-0404-333	-04
FC3443-04C	FC8779-0505-333	-05
FC3443-05C	FC8779-0606-333	-06
FC3443-05C	FC8779-0806-333	-06
FC3596-08C	FC8779-0808-333	-08
FC3443-08C	FC8779-1010-333	-10
FC3596-12C	FC8779-1212-333	-12
FC3596-16C	FC8779-1616-333	-16

Note: Brass nipples for steam applications are available. Contact Eaton Aeroquip for details.
[1]For brass, drop "S" suffix; replace with "B."



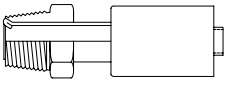
45° Elbow, SAE 37° Swivel

Socket Part #	Nipple Part #	Hose Size
FC3596-03S	FJ8605-0303S	-03



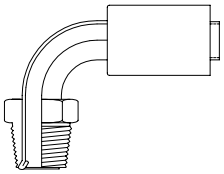
Power Trim 45° SAE Inverted Flare–Stainless Steel

Socket Part #	Nipple Part #	Hose Size
FC3596-04C	FJ8357-0304C	-04



Power Trim Straight SAE Inverted Flare–Stainless Steel

Socket Part #	Nipple Part #	Hose Size
FC3596-04C	FJ8356-0304C	-04

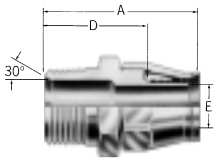


Power Trim 90° SAE Inverted Flare–Stainless Steel

Socket Part #	Nipple Part #	Hose Size
FC3596-04C	FJ8358-0304C	-04

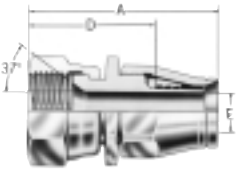
"super gem" fittings

**for use with PTFE Hose
FC807, FC465 and 2807**



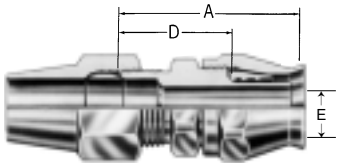
Male Pipe **38-190627–**

Dash Size	Thread	Hose Size	A	D	Eϕ
38–190627–					
2–4*	1/8-27	–04	1.35	.89	.16
4–4*	1/4-18	–04	1.54	1.08	.16
4–5*	1/4-18	–05	1.58	1.07	.23
4–6*	1/4-18	–06	1.66	1.13	.28
6–6*	3/8-18	–06	1.66	1.13	.28
6–8*	3/8-18	–08	1.79	1.16	.38
8–10*	1/2-14	–10	2.13	1.46	.47
12–12*	3/4-14	–12	2.26	1.61	.59
16–16*	1-11 1/2	–16	2.48	1.86	.83
20–20*	1 1/4-11 1/2	–20	2.83	2.17	1.06



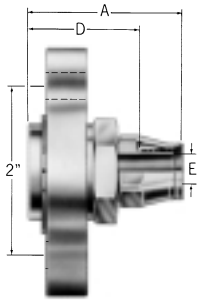
SAE 37° (JIC) swivel **63-190600–**

Dash Size	Thread	Hose Size	A	D	Eϕ
63–190600–					
3*	3/8-24	–03	1.38	1.04	.09
4*	7/16-20	–04	1.58	1.13	.16
5*	1/2-20	–05	1.68	1.17	.23
6*	9/16-18	–06	1.74	1.22	.26
8*	3/4-16	–08	1.98	1.35	.38
10*	7/8-14	–10	2.22	1.54	.47
12*	1 1/16-12	–12	2.33	1.67	.59
16*	1 5/16-12	–16	2.52	1.91	.83
20*	1 5/8-12	–20	2.92	2.27	1.06



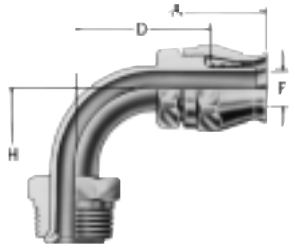
Compression ball sleeve **38–191074–**

Dash Size	Tube Size	Hose Size	A	D	Eϕ
38–191074–					
8	–08	–08	1.66	1.04	.38
10	–10	–10	1.85	1.18	.47
12	–12	–12	2.08	1.41	.59



2-bolt swivel flange **63–190626**

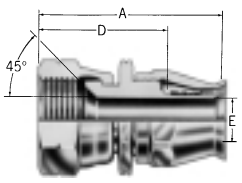
Dash Size	Flange Head Dia.	Hose Size	A	D	Eϕ
63–190626–					
6	2.88	–06	1.78	1.26	.28
12	2.88	–12	2.07	1.42	.56
16	2.88	–16	2.18	1.49	.19



SAE male inverted flare
90° elbow **190950–**

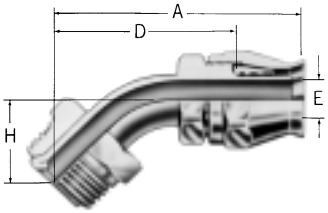
Dash Size	Thread	Hose Size	A	D	Eϕ	H
190950–						
4S	7/16-24	–04	2.04	1.57	.16	1.69
5S	1/2-20	–05	2.08	1.57	.23	1.69
5-6S	1/2-20	–06	2.12	1.60	.21	1.69
6S	5/8-18	–06	2.12	1.60	.28	1.73
8S	3/4-18	–08	2.32	1.69	.38	1.74
10S	7/8-18	–10	2.66	1.99	.47	2.21
12S	1 1/16-16	–12	2.73	2.07	.59	2.35

NOTE: Sleeve part number is 900568-(size)



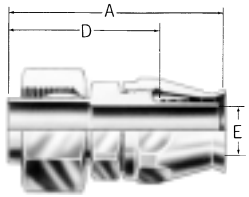
SAE 45° swivel **63-190990–**

Dash Size	Thread	Hose Size	A	D	Eϕ
63–190990–					
4	7/16-20	–04	1.58	1.12	.16
5	1/2-20	–05	1.68	1.17	.23
6	5/8-18	–06	1.77	1.25	.28
8	3/4-16	–08	1.98	1.36	.38
10	7/8-14	–10	2.22	1.54	.47
12	1 1/16-14	–12	2.33	1.67	.59



SAE male inverted flare
45° elbow **FC9063–**

Dash Size	Thread	Hose Size	A	D	Eϕ	H
FC9063–						
0404						
0505						
0505S	1/2-20	–05	2.46	1.94	.23	.96
0506S	1/2-20	–06	2.50	1.97	.21	.96
0606S	5/8-18	–06	2.50	1.97	.28	.96
0808S	3/4-18	–08	2.66	2.04	.38	.93
1010S	7/8-18	–10	2.96	2.29	.47	1.03
1212S	1 1/16-16	–12	3.10	2.44	.59	1.10



SAE ball sleeve† **190718–**

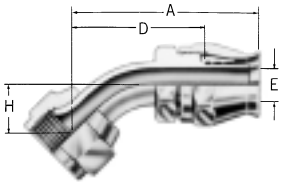
Dash Size	Thread	Hose Size	A	D	Eϕ
190718–					
8S	11/16-20	–08	2.07	1.44	.38
10–8S	13/16-18	–08	2.07	1.44	.38
10S	13/16-18	–10	2.16	1.49	.48
12S	1-18	–12	2.42	1.76	.59

†Some B-W compressor adapters require special mating nuts. For 13/16"–18 thread size for 1/2" O.D. Tubing, using fitting 190718–10–8S with 2807-8 Hose.
For special thread size 7/8"–18, use fitting 190742–10S with 2807–10 Hose.

*NOTE: Sleeve part number is 900568–(size). *Also supplied in Stainless Steel. Add suffix "C" to part number and delete prefix "63-" or "38-".*
All dimensions in inches.

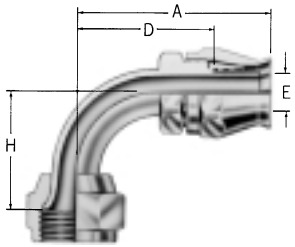
"super gem" fittings

for use with PTFE Hose FC807, FC465, and 2807



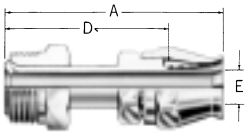
45° elbow
190773– Universal
FC9341–SAE 45° swivel

Dash Size	Thread	Hose size	A	D	Eϕ	H
190773-						
3S	3/8-24	–03	1.50	1.17	.09	.46
4S	7/16-20	–04	1.51	1.05	.16	.33
5S	1/2-20	–05	1.62	1.11	.23	.36
6S†	9/16-18	–06	1.72	1.20	.28	.39
8S	3/4-16	–08	2.27	1.64	.38	.55
10S	7/8-14	–10	2.46	1.79	.47	.64
12S†	1 1/16-12	–12	2.86	2.21	.59	.78
16S†	1 5/16-12	–16	3.30	2.68	.83	1.07
20S	1 5/8-12	–20	3.80	3.14	1.06	1.22
FC9341-						
0606S	5/8-18	–06	1.72	1.20	.28	.39
1212S	1 1/16-14	–12	2.86	2.21	.59	.78



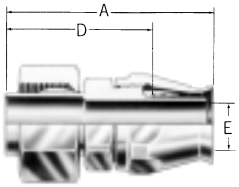
90° Elbow
190772– Universal
FC9171– SAE 45° swivel

Dash Size	Thread	Hose Size	A	D	Eϕ	H
190772-						
3S	3/8-24	–03	1.27	.93	.09	.87
4S	7/16-20	–04	1.41	.95	.16	.68
5S	1/2-20	–05	1.52	1.00	.23	.77
6S†	9/16-18	–06	1.62	1.10	.28	.85
8S	3/4-16	–08	2.03	1.41	.38	1.09
10S	7/8-14	–10	2.16	1.49	.47	1.23
10-12S	7/8-14	–12	2.23	1.57	.46	1.23
12S†	1 1/16-12	–12	2.82	2.17	.59	1.82
12-16S†	1 1/16-14	–16	2.87	2.22	.58	1.82
16S†	1 5/16-12	–16	3.10	2.49	.82	2.39
20S						
FC9171–						
0606S	5/8-18	–06	1.62	1.10	.28	.85
1212S	1 1/16-14	–12	2.80	2.19	.59	1.82



SAE male inverted flare
Straight **FC9062–**

Dash Size	Thread	Hose Size	A	D	Eϕ
FC9062–					
0404S	7/16-24	–04	2.13	1.66	.16
0505S	1/2-20	–05	2.17	1.66	.23
0506S	1/2-20	–06	2.21	1.69	.21
0606S	5/8-18	–06	2.21	1.69	.28
0808S	3/4-18	–08	2.47	1.84	.38
1010S	7/8-18	–10	2.78	2.11	.47
1212S	1 1/16-16	-12	3.02	2.37	.59



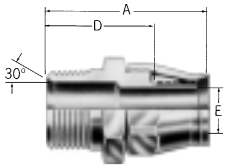
Special ball sleeve† **190742–**

Dash Size	Thread	Hose Size	A	D	Eϕ
190742–					
10S	7/8-18	–10	2.16	1.49	.48

†Some B-W compressor adapters require special mating nuts. For 13/16"–18 thread size for 1/2" O.D. Tubing, using fitting 190718–10–8S with 2807-8 Hose.
For special thread size 7/8"–18, use fitting 190742–10S with 2807–10 Hose.

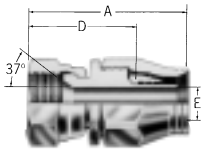
"super gem" fittings

for use with PTFE Hose 2808



Male pipe **38–190628–**

Dash Size	Thread	Hose Size	A	D	Eϕ
38–190628–					
6–8*	3/8-18	–08	1.91	1.32	.35
8–10*	1/2-14	–10	2.12	1.55	.44
12–12*	3/4-14	–12	2.40	1.63	.56
16–16*	1-11 1/2	–16	2.63	1.86	.83
20–20*	1 1/4-11 1/2	–20	3.05	2.09	1.06
24–24*	1 1/2-11 1/2	–24	3.16	2.20	1.28



SAE 37° (JIC) swivel **63–190535–**

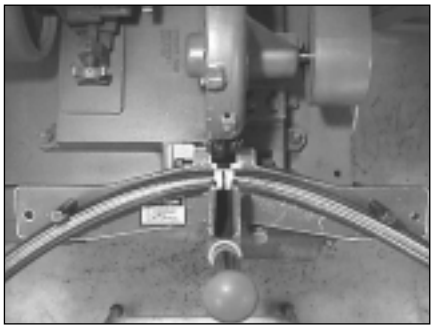
Dash Size	Thread	Hose Size	A	D	Eϕ
63–190535–					
8*	3/4-16	–08	2.07	1.48	.35
10*	7/8-14	–10	2.22	1.64	.44
12*	1 1/16-12	–12	2.46	1.70	.56
16*	1 5/16-12	–16	2.66	1.90	.83
20*	1 5/8-12	–20	3.14	2.19	1.06
24*	1 7/8-12	–24	3.38	2.42	1.28

NOTE: Sleeve part number is 900515-(size).

**Also supplied in Stainless Steel. Add suffix "C" to part number and delete prefix "63-" or "38-"*

Flat Crimp Style Fittings (PTFE)

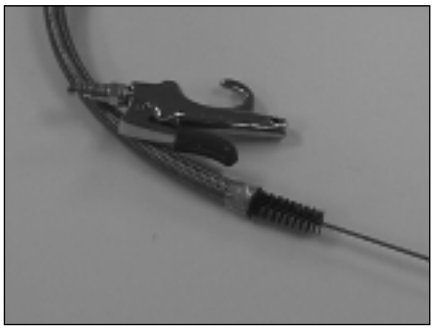
(Convoluted: FC363, FC364, FC563 and Smooth Bore: FC807, 2807, FC465), FC469 and FC645 –Contact Eaton Aeroquip



Step 1

Cut the Hose

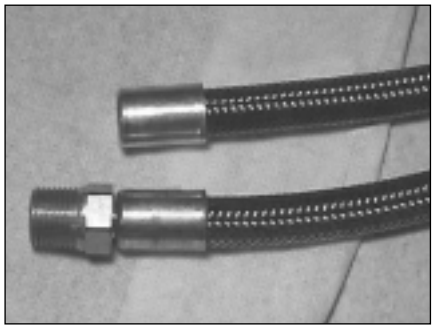
Place $1^1/_2$ wraps of filament tape around area to be cut. In the center of the taped area, cut the hose squarely and to the proper length using a suitable cut-off saw. Aeroquip recommends using a saw similar to the S1104. When complete, the angle of cut must not exceed 5° and a thin band of tape must be left on the hose to keep the wires in place. Read the saw operation manual for cutting instructions and blade applications.



Step 2

Clean the Hose Bore

Using a hose compatible solvent, bottle-brush, or compressed air, flush contaminants from the hose bore. Follow shop safety rules.



Step 3a

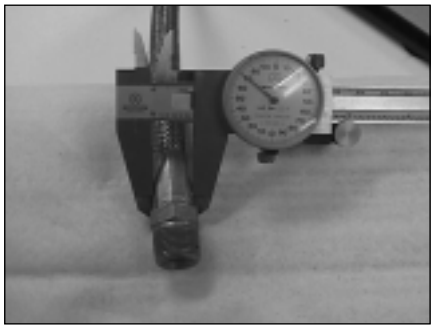
Insert the Fitting into the Hose–Convoluted PTFE

Push the crimp socket over the hose until the hose bottoms out inside the socket. Place a mark on the outside of the hose at the bottom of the socket. Remove the socket from the hose. Carefully remove the tape from the hose. Once the tape is removed, push the hose completely into the socket, making sure the bottom of the socket lines up with the aforementioned mark. Insert the nipple into the hose, turning it inward, until the shoulder comes in contact with the hose. Slide the socket up over the shoulder and flush with the hex. To ensure the fitting does not move during crimping, mark the hose at the bottom of the socket. **Swivel Type Fittings:** Screw a plug or adapter into the swivel threads and secure the fitting in vise. Thread the hose onto the nipple until it is snug against nipple assembly shoulder. Male pipe and flange fittings may be secured in vise without an adapter.

Step 3b

Insert the Fitting into the Hose–Smooth Bore PTFE

Place socket over taped hose end until the socket retaining shoulder contacts the hose end. Insert the nipple into the socketed hose until the nipple should or bottoms against the hose tube. Slide the socket up against the nipple shoulder and hex and mark the hose cover



Step 4

Crimp the Fitting

Crimp the fitting and check the crimp diameter, ovality dimension, and inspect the nipple/socket position. If hose mark is not within 1/8 inch of the socket skirt, reject the assembly. PTFE hose requires a crimp machine with a positive backstop. Refer to Bulletin JA55 Crimp Specifications and your crimp machine owner's manual for die selection, finished crimp diameter, ovality measurements and operating and crimping instructions.

Step 5

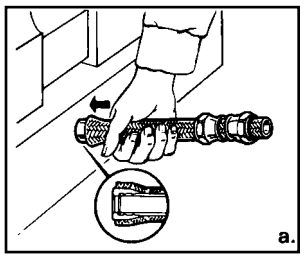
Plug or Cap the Fitting Ends

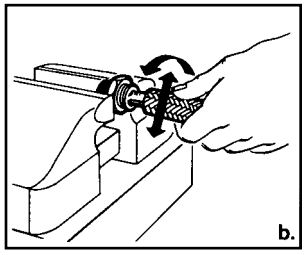
Use 23055 dust plugs and caps to protect the fitting threads and seal out contamination until hose assembly is installed.

"super gem"® Fittings with PTFE hose
FC807, FC465, 2807, 2808

Step 1

Wrap hose with masking tape at cut-off point using Aeroquip's S1104 cutting machine. Remove tape and trim any loose wires flush with tube stock. Any burrs on the bore of the tube stock should be removed with a knife. Clean the hose bore. Sometimes wire braid will tend to "neck down" on one end and flare out, on the opposite end. This is a characteristic of wire braid hose and can be used to an advantage in the assembly of the ***"super gem"***® sockets. Slip two sockets back to back over the "necked down" end of the hose.

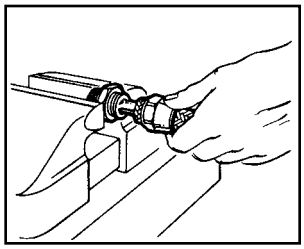




Step 2

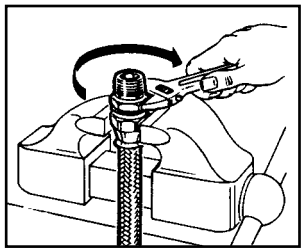
a. Push the sleeve over the end of the tube and under the wire braid by hand. Complete positioning of the sleeve by pushing the hose end against a flat surface. Visually inspect to see that tube stock butts against the inside shoulder of the sleeve.

b. Set the sleeve barbs into the PTFE tube by using assembly tool FT1038A or working the hose bore over the nipple into the end of the sleeve and tube. Assembly kit FT1081 is also available.



Step 3

Lubricate nipple and socket threads. For stainless steel fittings, use a molydisulfide base lubricant (e.g., Molykote* Type G), **lubricants containing chloride are not recommended.** Other material combinations use standard petroleum lubricants. Hold the nipple with hex in vise. Push hose over nipple with twisting motion until seated against nipple chamfer. Push socket forward and hand start threading of socket to nipple.



Step 4

Wrench tighten nipple hex until clearance with socket hex is $^{1}/_{32}$" or less. Tighten further to align corners of nipple and socket hexes.

To disassemble: Unscrew and remove nipple; slide socket back on hose by tapping against flat surface; remove sleeve with pliers. New sleeves are recommended upon reuse of the fitting.

**Molykote Type G is a registered trademark of the Alpha Molykote Corporation.*

*Pro*Crimp® 1380P

Perfect for maintenance and repair of all your hose needs and designed to be used in remote or portable stations, the *Pro*Crimp 1380P will handle through -20 SAE100R12 hose and fittings. All die cages, crimp diameters and approved hose and fitting combinations are identical to Aeroquip's popular FT1380 crimper. Crimp diameters are controlled using a micrometer and specially designed hydraulic circuit that allows for precise and adjustable finished crimp diameters.

The *Pro*Crimp 1380P may be ordered separately or with your choice of three power options, including a new high volume hand pump, an Air/Hydraulic power unit or a 12-volt DC power unit.

Ordering Instructions

FT1380P-1-1	Machine with hand pump
FT1380P-1-1-5	Machine with hand pump and 5 die cages
FT1380P-1-1-8	Machine with hand pump and 8 die cages
FT1380P-1-2	Machine with Air/Hydraulic pump
FT1380P-1-2-5	Machine with Air/Hydraulic pump and 5 die cages
FT1380P-1-2-8	Machine with Air/Hydraulic pump and 8 die cages
FT1380P-1-3	Machine only
FT1380P-1-3-5	Machine with 5 die cages
FT1380P-1-3-8	Machine with 8 die cages
FT1380P-1-4	Machine with 12 volt DC pump
FT1380P-1-4-5	Machine with 12 volt DC pump and 5 die cages
FT1380P-1-4-8	Machine with 12 volt DC pump and 8 die cages

5 die cages
FT1380-200-M150
FT1380-200-M210
FT1380-200-M240
FT1380-200-M320
FT1380-275-M370

8 die cages
Include the 5 die cages plus:
FT1380-200-M180
FT1380-200-M280
FT1380-275-M465

The ProCrimp 1380 crimp machine from Aeroquip crimps all your hose needs up to and including –20 SAE100R12 hose styles and the popular MatchMate Plus hose and fittings program (shown with optional die holder kit FT1380–2–4). The ProCrimp 1380 is electronically controlled to give fast, accurate crimps the first time and every time you need a hose assembly. The electronic keypad is easy to adjust, with up to 10 programmable crimp settings. For hose styles and sizes used less frequently simply enter the 3 digit code of that hose. The ProCrimp 1380 comes complete with a standard power unit from ENERPAC®, a name, like Aeroquip, which is synonymous with quality, worldwide.

*Pro*Crimp® 1380

Ordering Instructions

FT1380–115	115V crimp machine 60 Hz
FT1380–115–5	2-Wire braid hose package FT1380–115 with the 5 die cages needed to crimp the 5 most popular GH793 or GH781 2-wire hose sizes: –4, –6, –8, –12 and –16 Die Cages FT1380–200–M150 FT1380–200–M210 FT1380–200–M240 FT1380–200–M320 FT1380–275–M370
FT1380–115–8	Braided and spiral hose package FT1380–115–5 with the 3 additional die cages — capable of crimping all MatchMate Plus hoses through –20 Die Cages FT1380–200–M180 FT1380–200–M280 FT1380–275–M465
FT1380–2–3	FT1330 to FT1380 Die Cage conversion kit — back plate, bolts and instructions necessary to convert an FT1330 die cage to an FT1380 die cage. Simply remove the FT1330 back plate and replace it with the new FT1380 back plate.
FT1380–2–4	Optional die holder kit — Kit includes 4 die holder plates each of which will hold 2 die cages. Holes are pre-drilled on base of ProCrimp machine to accept these 4 plates.

Electrical Requirements

USA: FT1380–115 standard machine uses 115V, 60 Hz, 1 hp
Brazil: FT1380–1–2 standard machine uses 230V, 60 Hz, 1 hp
Australia: FT1380–230 standard machine uses 230V, 50 Hz, 1 hp
Canada: FT1380–115 standard machine. Requires CSA (Canadian Standards Association) approval. The FT1380–115 is CSA approved and is so noted on the nameplate.

FT1380 Crimp Machine Backstop

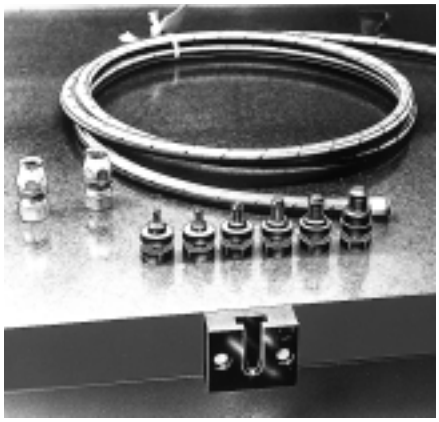
The FT1380 Backstop provides added versatility to one of Eaton Aeroquip's most widely used crimp machines, the FT1380. Featuring both "spring-loaded" and "positive-stop" options, this backstop simplifies crimping for a wide range of fitting styles including thru-the-cover, PTFE and others. The FT1380 Backstop can also be used with Eaton Aeroquip's FT1380P Crimp Machine.

Features

- Magnetic mount
- "Spring-Loaded" backstop
- "Positive-Stop" option
- 2.5 inches of travel

Order Instructions

FT1380-4 Backstop and 5/32" hex wrench



FT1081
PTFE hose assembly tool kit

Hose Specifications

Smooth Bore PTFE Hose, –03, –04, –05, –06, –08, –10 and –12 hose. FT1090–3–10–4 and FT1090–3–10–5 are useful wire flare tools to use in conjunction with kit FT1081.

Features

- Inexpensive
- Easy to use
- Seats PTFE tube against sleeve

Ordering Instructions

FT1081 Complete tool kit.
Includes:

FT1081–3–1 mandrel holder
FT1081–3–2–3 mandrel –3 hose
FT1081–3–2–4 mandrel –4 hose
FT1081–3–3–5 mandrel –5 hose
FT1081–3–4–6 mandrel –6 hose
FT1081–3–5–8 mandrel –8 hose
FT1081–3–6–10 mandrel –10 hose
FT1081–3–7–12 mandrel –12 hose

FT1038A
PTFE hose tool

Hose Specifications

- Smooth bore PTFE Hose, –03, –04, –05, –06, –08, –10 and –12

Features

- Small
- Hand held tool

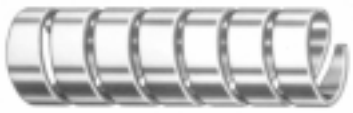
Protective coils, sleeves & clamps

222005, 222022
Stainless steel internal support coils

Recommended for vacuum service with most hose.

Part Number	Coil O.D. (inches)
222005-23C	.34
222005-10C	.42
222005-21C	.51
222005-11C	.60
222022-12C	.70
222005-13C	.73
222005-14C	.94
222022-16C	.97
222005-15C	1.19
222022-20C	1.25
222005-17C	1.44
222022-24C	1.50
222005-18C	1.88
222022-32C	1.97
222005-19C	2.44
222022-40C	2.67
222022-48C	3.27
222022-60C	4.28
222022-80C	5.28

900705
Steel protective coil sleeve

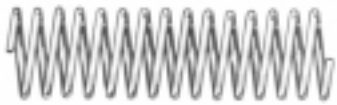


Recommended for use where hose lines are subjected to excessive abrasion, kinking or accidental damage. Construction: spring steel, rust resistant.

This coil should fit snugly to the hose O.D. expanding the coil I.D. (unwind the coil) may be necessary for proper installation.

Sleeve Dash No.	Sleeve I.D. (inches)
–17S	.44
–1S	.50
–13S	.57
–2S	.63
–3S	.75
–4S	.88
–5S	1.03
–14S	1.13
–6S	1.22
–7S	1.47
–9S	1.69
–8S	1.91
–15S	2.00
–10S	2.13
–16S	2.44
–11S	2.56
–12S	2.75

900564
Steel protective coil spring

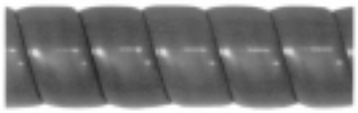


Protects hose cover and reinforcement from abrasion and accidental damage. Construction; steel wire, rust resistant.

This coil should fit snugly to the hose O.D. expanding the coil I.D. (unwind the coil) may be necessary for proper installation.

Spring Dash No.	Spring I.D. (inches)
–1S	.61
–12S	.67
–2S	.75
–15S	.81
–14S	.85
–3S	.91
–4S	1.04
–5S	1.18
–6S	1.34
–7S	1.66
–9S	1.87
–8S	2.13
–10S	2.38
–13S	2.75
–11S	2.88

900952
Plastic protective coil sleeve



Recommended to protect hose from abrasion, this light weight plastic sleeve is unaffected by air, water, oil, gasoline, hydraulic and most other fluids. This coil can also be used for group bundling of hose lines. Temperature range of 0°F to +180°F.

Sleeve Dash No.	Sleeve I.D. (inches)
–4	.25
–6	.38
–8	.50
–10	.63
–12	.75
–16	1.00
–22	1.38
–30	1.88

624
Firesleeve

Firesleeve will protect hose from direct flame. Firesleeve is constructed of a uniform single layer of braided fiberglass tubing impregnated with flame resistant silicone rubber. Temperature range of -65°F to +500°F.

Part Number	I.D. (inches)	Clamp Number (2 required)
624-5	.31	FF9217-0622S
624-7	.44	FF9217-0622S
624-8	.50	FF9217-0622S
624-9	.56	FF9217-0622S
624-10	.62	FF9217-0622S
624-11	.69	FF9217-0622S
624-12	.75	FF9217-0622S
624-13	.81	FF9217-0622S
624-14	.88	FF9217-0622S
624-16	1.00	FF9217-0622S
624-18	1.12	FF9217-0622S
624-20	1.25	FF9217-0648S
624-22	1.38	FF9217-0648S
624-24	1.50	FF9217-0648S
624-26	1.62	FF9217-0648S
624-28	1.75	FF9217-0648S
624-30	1.88	FF9217-0648S
624-32	2.00	FF9217-0648S
624-38	2.38	FF9217-0648S
624-42	2.62	FF9217-0648S
624-46	2.88	FF9217-0664C
624-50	3.12	FF9217-0664C
624-54	3.38	FF9217-0664C
624-60	3.75	FF9217-0664C

FF9217 Firesleeve clamp

Recommended for attaching 624 Firesleeve to hose lines.

Clamp numbers: **FF9217-0622S, FF9217-0648S**; $^{3}/_{8}$ inch wide, **FF9217-0664C**; $^{1}/_{2}$ inch wide.

FC425
Nylon abrasion sleeve
Meets MSHA requirements

Nylon sleeve protects hose from abrasion and allows bundling of hose lines.

Part Number	Nominal Sleeve I.D.* "B" (inches)
FC425-12	.71
FC425-15	.92
FC425-16	1.00
FC425-18	1.13
FC425-20	1.25
FC425-24	1.59
FC425-28	1.75
FC425-32	2.07
FC425-38	2.38
FC425-40	2.54
FC425-46	2.86
FC425-54	3.34
FC425-59	3.66

* The maximum O.D. of hose fittings must be allowed for if fittings are to be covered.

900729
Support clamp

These light weight vinyl-coated steel support clamps are designed to support hose where long runs are necessary.

This clamp not only furnishes a cleaner installation, but prevents damage, exposure and chafing.

The lining will withstand high ambient temperatures.

Bolt hole dia: Clamp dash no. –01 thru –8, –18 thru –23 is .406; –9 thru –17, –24 thru –31 is .531.

Clamp Dash No.	Clamp I.D. (inches) Closed
–18	.25
–19	.38
–01	.44
–1	.50
–2	.56
–21	.63
–3	.69
–4	.75
–5	.81
–6	.94
–23	1.00
–8	1.06
–9	1.13
–27	1.19
–24	1.25
–25	1.31
–10	1.50
–11	1.56
–12	1.75
–28	1.81
–13	2.00
–29	2.06
–14	2.25
–30	2.50
–31	2.63
–15	2.75
–16	2.88
–17	3.56

ACCESSORIES TO HOSE CHART

Part Number	Steel Prot. Coil Spring* 900564 (dash size)	Plastic Coil Sleeve 900952 (dash size)	Steel Prot. Coil Sleeve* 900705 (dash size)	Support Clamp 900729 (dash size)	Internal Support Coil	Nylon Sleeve* FC425 (dash size)	Firesleeve* 624 (dash size)	Firesleeve Clamp FF9217 (dash size)	Heavy Duty Support Clamp FF9031 (dash size)
2807-3		-4		-18			-7	-0622S	
2807-4		-4		-18			-8	-0622S	
2807-5		-4		-19			-9	-0622S	
2807-6		-6	-17S	-01	222005-23C		-10	-0622S	
2807-8	-1S	-8	-1S	-1	222005-10C	-12	-12	-0622S	-137
2807-10	-2S	-8	-3S	-21	222005-21C	-16	-14	-0630S	-160
2807-12	-2S	-10	-3S	-4	222005-13C	-16	-16	-0630S	-190
2807-16	-3S	-12	-5S	-23	222005-14C	-20	-20	-0630S	-266
2807-20	-5S	-16	-6S	-24	222005-15C	-24	-24	-0648S	-320
2808-08	-12S	-6	-1S	-2	222005-10C	-12	-16	-0622S	-150
2808-10	-2S	-8	-2S	-3	222005-21C	-16	-18	-0630S	-174
2808-12	-14S	-10	-3S	-5	222005-13C	-16	-20	-0630S	-205
2808-16	-5S	-16	-5S	-8	222005-14C	-20	-26	-0648S	-280
2808-20	-7S	-16	-6S	-25	222005-15C	-24	-32	-0648S	-334
2808-24	-7S	-22	-7S	-11	222005-17C	-28	-38	-0648S	-422
FC363-12	-5S	-16	-6S	-8		-20	-20	-0630S	-266
FC363-16	-6S	-16	-7S	-10		-24	-22	-0630S	-320
FC363-20	-7S	-22	-9S	-11		-28	-26	-0648S	-381
FC363-24	-9S	-22	-8S	-2S		-32	-30	-0648S	-445
FC363-32	-10S		-16S	-30		-59	-42	-0648S	-572
FC364-12	-5S	-16	-6S	-8		-20	-20	-0630S	-266
FC364-16	-6S	-22	-7S	-10		-24	-22	-0630S	-320
FC364-20	-7S	-30	-9S	-11		-28	-26	-0648S	-381
FC364-24	-9S	-30	-8S	-28		-32	-30	-0648S	-445
FC364-32	-10S		-16S	-30		-59	-42	-0648S	-572
FC364-40	-11S	-30	-12S	-16		-54	-50	-06664S	-635
FC364-48									
FC465-04		-4		-18			-9	-0622S	
FC465-05		-4		-19			-10	-0622S	
FC465-06		-6		-01	222005-23C	-12	-11	-0622S	
FC465-08	-1S	-8	-1S	-1	222005-21C	-12	-13	-0622S	-137
FC465-10	-1S	-8	-13S	-21	222005-21C	-16	-14	-0622S	-160
FC465-12	-2S	-10	-3S	-4	222005-13C	-16	-16	-0622S	-190
FC465-16	-3S	-12	-5S	-23	222005-14C	-20	-20	-0648S	-266
FC469-06	-1S	-6	-1S	-1	222005-23C	-12	-12	-0622S	
FC469-08	-1S	-8	-13S	-21	222005-10C	-16	-14	-0622S	
FC469-10	-12S	-10	-2S	-4	222005-21C	-16	-16	-0622S	-150
FC563-12	-5S	-16	-14S	-9		-20	-22	-0648S	-280
FC563-16	-6S	-16	-6S	-2S		-24	-26	-0648S	-334
FC563-20	-7S	-22	-7S	-11		-28	-30	-0648S	
FC563-24	-9S	-22	-9S	-28		-32	-32	-0648S	
FC563-32	-10S	-30	-10S	-14		-40	-42	-0648S	
FC645-06		-6	-17S	-01	222005-23C		-10	-0622S	
FC807-3		-4		-18		-7	-7	-0622S	
FC807-4		-4		-18			-8	-0622S	
FC807-5		-4		-19			-9	-0622S	
FC807-6		-6	-17S	-01	222005-23C		-10	-0622S	
FC807-8	-1S	-8	-1S	-1	222005-10C	-12	-12	-0622S	-137
FC807-10	-2S	-8	-3S	-21	222005-21C	-16	-14	-0630S	-160
FC807-12	-2S	-10	-3S	-4	222005-13C	-16	-16	-0630S	-190
FC807-16	-3S	-12	-5S	-23	222005-14C	-20	-20	-0630S	-266

**Sizes indicated are based on Hose O.D. only. If sleeve is to be placed over fittings, a larger sleeve size may be required, depending on type of fitting used.*

Fluid Compatibility Chart For Aeroquip PTFE Hose

This chart indicates the fitting material and inner tube suitability for the fluid/agent to be conveyed. It is intended for use as a guide only and is not a guarantee. Final selection is further dependent on pressure, fluid and ambient temperature, concentration of fluid/agent, intermittent or continuous exposure, etc. For further details on a specific hose style, consult your Eaton field sales manager or Eaton Aeroquip at 419-867-2600.

CAUTION: These recommendations are intended as a guide only. Many factors such as concentration, fluid and ambient temperature, pressure, duration of exposure, etc., have a bearing on the suitability of any hose or end fitting material for a specific application.

Use the charts as follows:

1. Locate the fluid/agent to be carried
2. Select suitability of hose style and fitting material.

Resistance Rating Key

S = SATISFACTORY
C = CONDITIONAL (Service condition must be outlined to Aeroquip for approval of hose suitability for applications.)
U = UNSATISFACTORY

Electro Static Discharge

With installation involving higher flow rates and fuel, other petrochemicals or steam, the possibility exists for static charge accumulation and the consequent discharge. This may occur when a fluid, such as gasoline, is traveling through a white, non-conductive PTFE hose. The fluid will deposit electrons along the wall of the hose causing a static buildup. If they are not dissipated, an electric field will accumulate which may discharge an arc of sufficient energy to pierce, or pinhole, the wall of a PTFE hose.

To overcome this phenomenon, a black carbon liner has been added to certain Aeroquip PTFE hose. This conducts the electrostatic charge down the hose to the metal fitting, thus preventing the arcing.

C = CONDITIONAL
S = SATISFACTORY
U = UNSATISFACTORY

FLUID	PTFE 1 HOSE	Carbon Steel 2 FITTINGS	Stainless Steel 3 FITTINGS	Brass 4 FITTINGS
Acetate Solvents, Crude	S	U	S	U
Acetate Solvents, Pure	S	U	S	U
Acetate Acid, Dilute (10%)	S	U	S	U
Acetic Acid, Glacial	S	U	S	U
Acetic Acid, Vapors	U	U	U	U
Acetone	S	S	S	S
Acetylene	S	S	S	S
Air	S	S	S	S
Air (Hot) (to +160°F)	S	S	S	S
Air (Hot) (to +200°F)	S	S	S	S
Air (Wet)	S	C	S	S
Alcohols	S	C	S	S
Aluminum Chloride	U	U	U	U
Aluminum Fluoride 20%	U	U	U	U
Aluminum Sulfate	S	U	S	C
Alums	S	U	S	C
Ammonia, Gas, Cold	U	S	S	U
Ammonia, Gas, Hot	U	S	S	U
Ammonia, Liquid (Anhydrous)	U	S	S	U
Ammonia, Aqueous	U	S	S	U
Ammonia, Chloride	S	U	U	U
Ammonium Hydroxide	S	S	S	U
Ammonium Nitrate	S	S	S	U
Ammonium Phosphate	S	U	S	U
Ammonium Sulfate	S	S	C	U
Amyl Acetate	S	C	S	S
Amyl Alcohol	S	S	S	S
Aniline, Aniline Oil	S	S	S	U
Aniline Dyes	S	U	S	C
Asphalt (up to +180°F)	S	S	S	S
Barium Chloride	S	S	C	S
Barium Hydroxide	S	S	S	U
Barium Sulfide	S	U	S	U
Beet Sugar Liquors	S	S	S	S
Benzene, Benzol	S	S	S	S
Benzine (Petroleum Ether)	S	S	S	S
Benzine (Petroleum Naphtha)	S	S	S	S
Black Sulfate Liquor	S	S	S	C
Black Furnace Gas	S	S	S	S
Borax	S	S	S	S
Boric Acid	S	U	S	C
Brine	S	U	C	S
Bromine	U	U	U	C
Butyle Acetate	S	S	S	S
Butyle Alcohol, Butanol	S	S	S	S
Calcium Bisulfite	S	U	U	U
Calcium Chloride	S	S	S	S
Calcium Hydroxide	S	S	S	S
Calcium Hypochlorite	S	C	U	C
Caliche Liquors	S	S	S	S
Cane Sugar Liquors	S	S	S	S
Carbolic Acid Phenol	S	U	S	S
Carbon Dioxide	S	S	S	S
Carbon Disulfite	S	S	S	S
Carbon Monoxide (Hot)	S	S	S	C
Carbon Tetrachloride	S	U	C	S
Carbonic Acid	S	U	S	U
Castor Oil	S	S	S	S
Cellosolve Acetate	S	S	S	S
China Wood Oil (Tung)	S	S	S	S
Chlorinated Solvents	S	S	S	S
Chlorine (Dry)	S	S	S	S
Chlorine (Wet)	U	U	C	U
Chloracetic Acid	U	U	U	U
Chloroform	S	U	C	S
Chlorosulphonic Acid	S	C	U	U
Chromic Acid 30%	S	U	U	U
Citric Acid 10%	S	U	S	C
Copper Chloride	U	U	U	U
Copper Sulfate	S	U	S	U

C = CONDITIONAL
S = SATISFACTORY
U = UNSATISFACTORY

FLUID	HOSE	FITTINGS		
	PTFE	Carbon Steel	Stainless Steel	Brass
	1	2	3	4
Cottonseed Oil	S	S	S	S
Creosote	S	S	S	C
Diesel Oil Light	S	S	S	S
Dowtherm A and E	S	S	S	S
Ethers	S	S	S	S
Ethyl Acetate	S	S	S	S
Ethyl Alcohol	S	S	S	S
Ethyl Cellulose	S	S	S	S
Ethyl Chloride	S	S	C	S
Ethylene Dichloride	S	U	U	S
Ethylene Glycol	S	S	S	S
Ferric Chloride	U	U	U	U
Ferric Sulfate	S	U	S	U
Ferrous Salt Solutions	U	U	U	U
Formaldehyde	S	U	S	S
Formic Acid	S	U	U	C
Freon (see Refrigerant)				
Fuel Oil	S	S	S	S
Furfural	S	S	S	S
Gasoline	S	S	S	S
Glue	S	S	S	C
Glycerine, Glycerol	S	S	S	S
Grease Petro	S	S	S	S
Green Sulfate Liquor	S	S	S	U
Heptane	S	S	S	S
Hexane	S	S	S	S
Straight Petroleum Base	S	S	S	S
Water & Petroleum Oil Emulsion (FR)	S	C	S	S
Water & Glycol Solution	S	S	S	S
Straight Phosphate–Ester (FR)	S	S	S	S
Phosphate-Ester & Petroleum Oil Blend (FR)	S	S	S	S
Ester Blend (MIL-L-7808)	S	S	S	S
Silicon Oils	S	S	S	S
Hydrobromic Acid	U	U	U	C
Hydrochloric Acid, Cold	U	U	U	C
Hydrochloric Acid, Hot	U	U	U	C
Hydrocyanic Acid	S	S	C	U
Hydrofluoric Acid, Cold	U	U	U	C
Hydrofluoric Acid, Hot	U	U	U	C
Hydrofluosilicic Acid	U	U	U	U
Hydrogen	C	S	S	S
Hydrogen Peroxide (Dilute)	S	U	S	U
Hydrogen Peroxide (Concentrated)	S	U	S	U
Hydrogen Sulfide	S	U	C	U
Kerosene	S	S	S	S
Lacquer	S	U	S	S
Lacquer Solvents	S	U	S	S
Lactic Acid	S	U	S	C
Linseed Oil	S	S	S	S
Magnesium Chloride	S	S	C	S
Magnesium Hydroxide	S	S	S	S
Magnesium Sulfate	S	S	S	S
Mercuric Chloride	U	U	C	U
Mercury	S	S	S	U
Methyl Alcohol, Methanol	S	S	S	S
Methyl Chloride, Cold	S	S	S	S
Methyl Ethyl Ketone	S	S	S	S
Methyl Isopropyl Ketone	U	C	C	C
Mineral Oil	S	S	S	S
Naphtha	S	S	S	S
Naphthalene	S	S	S	S
Nickel Chloride	U	U	C	U
Nickel Sulfate	S	U	S	C
Nitrice Acide, Crude	S	U	S	U
Nitric Acid 10%	S	U	S	U
Nitric Acid 70%	S	U	S	U
Nitrobenzene	S	S	S	S
Nitrous Oxide	S	S	S	S
Oleic Acid	S	S	C	C
Oleum Spirits	S	U	S	S
Oxalic Acid	S	U	C	C
Oxygen	C	S	S	S
Paint	S	S	S	S
Palmitic Acid	S	S	S	U
Perchlorethylene	S	S	S	S
Phosphoric Acid (Commercial)	S	U	S	U
Picric Acid, Molten	U	U	U	U
Picric Acid, Solution	S	C	S	U
Potassium Chloride	S	S	U	U
Potassium Cyanide	S	S	S	U
Potassium Hydroxide	S	C	S	U
Potassium Sulfate	S	S	S	S
Prestone	S	S	S	S
Sewage	S	S	U	S
Soap Solution	S	S	S	S
Soda Ash, Sodium Carbonate	S	S	S	S
Sodium Bisulfate	S	U	C	C
Sodium Chloride	S	S	S	C
Sodium Cyanide	S	S	S	U
Sodium Hydroxide 50%	S	S	S	U
Sodium Hypochlorite	U	U	U	U
Sodium Nitrate	S	S	S	C
Sodium Perborate	S	U	S	U
Sodium Peroxide	S	U	S	U
Sodium Phosphates	S	U	S	S
Sodium Silicate	S	S	S	C
Sodium Sulfate	S	S	S	S
Sodium Sulfide	S	S	S	U
Sodium Thiosulfate “Hypo”	S	U	S	U
Soybean Oil	S	S	S	S
Stannic Chloride	U	U	U	U
Steam–up to +250°F	S	S	S	S
Stearic Acid	S	U	C	U
Sulfur	S	S	S	U
Sulfur Chloride	S	U	C	U
Sulfur Dioxide	S	S	S	U
Sulfur Trioxide	S	S	C	S
Sulfuric Acid–10% Cold	U	U	U	U
Sulfuric Acid–10% Hot	U	U	U	U
Sulfuric Acid–75% Cold	U	U	U	U
Sulfuric Acid–75% Hot	U	U	U	U
Sulfuric Acid–95% Cold	U	U	U	U
Sulfuric Acid–95% Hot	U	U	U	U
Sulfuric Acid–Fuming	S	S	S	U
Sulfurous Acid	S	U	C	U
Tannic Acid	S	S	S	S
Tar	S	S	S	S
Tartaric Acid	S	U	S	C
Toluene	S	S	S	S
Trichlorethylene	S	U	S	S
Turpentine	S	S	S	S
Varnish	S	S	S	S
Water	S	C	S	S
Water (over +150°F)	S	C	S	S
Xylene	S	S	S	S
Zinc Chloride	U	U	U	U
Zinc Sulfate	S	C	S	C

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