



# AEROQUIP INNOVATIONS

## FC807 LOWER-COST SOLUTION SMOOTH-BORE PTFE HOSE

Aeroquip has introduced a smooth-bore PTFE hose that is priced competitively with other PTFE hose on the market. Aeroquip quality is apparent in this new lower-cost hose that meets SAE 100R14 requirements. A red Nomex\* tracer yarn in the braid pattern makes it easily identifiable.

### Applications

- Adhesives, paints and food processing
- Chemical transfer
- Medium-pressure pneumatic and hydraulic systems
- Truck and bus engines
- Compressor discharge on chemical processing and railroad equipment
- High performance
- Marine

### Features

- Is compatible with all standard Aeroquip smooth-bore PTFE fittings (reusable and crimp)
- Is compatible with standard Aeroquip crimp machines and metric dies
- Has a minimum tubing thickness of .030-inch in all sizes
- Meets SAE 100R14 requirements
- Incorporates a consistent braid pattern

### Benefits

- Inert to most fluids—capable of handling the broadest range of applications
- Lightweight
- High temperature resistant—PTFE properties do not change due to weathering
- Flexible—decreased chance of failure due to fatigue and flexing
- Low-friction tube material—results in lower pressure drop

\*Nomex is a DuPont trademark



## FC807

### LOWER-COST SOLUTION SMOOTH-BORE PTFE HOSE

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

\*If greater negative pressures and high temperatures are encountered, use of an internal support coil is recommended.

**Performance:** Tested and qualified to SAE 100R14 requirements—additional corrosion testing to ensure design

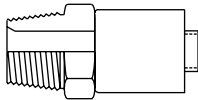
**Temperature:** -65° F to 450° F; steam, 200 psi at 388° F maximum

**Construction Materials:** 304 stainless steel wire and PTFE tubing and one end of red Nomex

**Fittings:** "super gem"<sup>®</sup> and crimp fittings (see following pages)

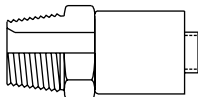
## Crimp Fittings

### FOR FC807 SMOOTH-BORE PTFE HOSE



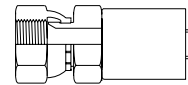
Male Pipe

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



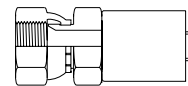
Male Pipe — Stainless Steel

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
FC3596-04S	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

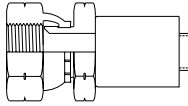
Socket Part #	Nipple Part #	Hose Size
FC3596-04C	FC8779-0404-333	-04
FC3443-04C	FC8779-0505-333	-05
FC3443-05C	FC8779-0606-333	-06
FC3443-05C	FC8779-0806-333	-06
FC3596-08C	FC8779-0808-333	-08
FC3443-08C	FC8779-1010-333	-10
FC3596-12C	FC8779-1212-333	-12
FC3596-16C	FC8779-1616-333	-16

**Note:** Brass nipples for steam applications are available. Contact Aeroquip for details.

<sup>1</sup>For brass, drop "S" suffix; replace with "B".

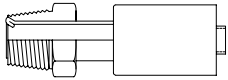
## Crimp Fittings (CONTINUED)

FOR FC807 SMOOTH-BORE PTFE HOSE



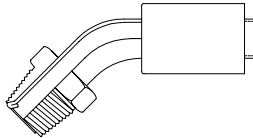
**SAE 45° Swivel**

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	FC6216-0404S <sup>1</sup>	-04
FC3443-04S	FC6216-0505S	-05
FC3443-05S	FC6216-0606S <sup>1</sup>	-06
FC3596-08S	FC6216-0808S	-08
FC3596-08S	FC6216-1008S	-08
FC3443-08S	FC6216-1010S <sup>1</sup>	-10
FC3596-12S	FC6216-1212S	-12



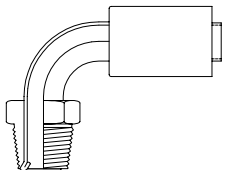
**Straight SAE Male Inverted Flare—Long Tube**

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



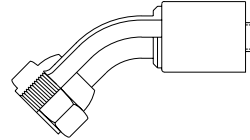
**45° Elbow, SAE Male Inverted Flare**

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



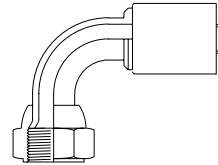
**90° Elbow, SAE Male Inverted Flare**

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



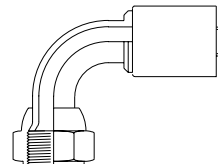
**SAE 45° Elbow, SAE 45° Swivel/Universal Swivel**

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



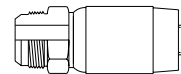
**90° Elbow, SAE 45° Swivel/Universal Swivel**

Socket Part #	Nipple Part #	Hose Size
FC3596-04S	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
FC3443-05S	FC8780-0606S	-06
FC3596-12S	FC8780-1212S	-12
FC3596-16S	FC8780-1616S	-16

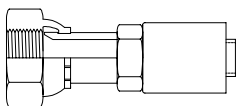


**SAE 37° JIC Male Flare**

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

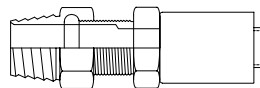
<sup>1</sup>For brass, drop "S" suffix; replace with "-63."

## Crimp Fittings (CONTINUED) FOR FC807 SMOOTH-BORE PTFE HOSE



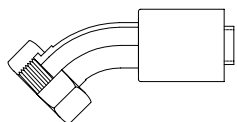
**Straight ORS Female Swivel**

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



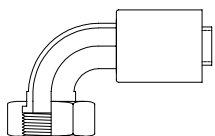
**Ball Sleeve (Compression) Type**

Socket Part #	Nipple Part #	Hose Size
FC3596-08S	FC3597-0808 <sup>1</sup>	-08
FC3443-08S	FC3597-1010 <sup>1</sup>	-10
FC3596-12S	FC3597-1212 <sup>1</sup>	-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

## Crimp Fittings Specifications

Hose Dash Size <sup>1</sup>	Crimp Diameter B <sup>2</sup> ± .08 mm ± .003 in	Crimp Length C	Die Suffix Number
-04	8.56 mm .337 in	*	-M090 -39
-05	10.34 mm .407 in	*	-M090 -40
-06	11.86 mm .467 in	*	-M120 -41
-08	14.40 mm .567 in	*	-M150 -36
-10	16.94 mm .667 in	*	-M150 -37
-12	19.99 mm .787 in	*	-M180 -37
-16	27.25 mm 1.073 in	*	-M240 -5

<sup>1</sup>Nipple available in brass. For brass, drop "S" suffix; replace with "-B."  
<sup>2</sup>Crimp full length of socket.



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*Specifications subject to change without notice*