



# Aeroquip

## FC639/FC839B BRUISER™ Hose

3,000 PSI Constant Pressure Hose

Innovation Sheet



Eaton's new FC639 and FC839B hydraulic hose offer 3,000 psi operating pressure in every size. Featuring a compact design plus superior flexibility, it's available in sizes -4 through -16. This new easy-to-route product is qualified for use with Aeroquip Global skive and Global Through-The-Cover crimp fittings.

FC639 and FC839B hose are specifically designed to meet SAE 100R17 performance. The new Aeroquip hose style routes easily, reducing hose length requirements. By having only one part number in inventory, selection is greatly simplified.

### Applications

General industrial and hydraulic system service with petroleum and water-base fluids. Recommended for high-pressure oil lines used on construction equipment and other off-highway applications.

- Hydraulic systems ranging up to 3,000 psi
- Construction equipment
- Hydraulic-actuated tools
- Confined spaces where routing is difficult

### Features

- Qualified with Global Through-The-Cover (TTC™) crimp fittings in sizes -4 through -16\*
- Global skive fittings offered in -4 through -16
- Every size rated at 3,000 psi operating pressure
- Designed and tested to meet SAE 100R17 performance
- Temperature range: -40°F to +212°F (-40°C to +100°C)
- 1/2 SAE 100R2 bend radius
- Abrasion resistant, MSHA approved fire-resistant cover and BRUISER™ cover available.

\* See reverse side for -16 TTC fitting requirements.

### Benefits

- Constant 3,000 psi pressure means simplified inventory
- One part number means simplified selection
- Superior flexibility means reduced hose length requirements
- Easier to route than conventional hose
- Two-wire braid hose offering SAE 100R9 spiral hose performance in sizes -12 and -16
- BRUISER™ cover outlasts standard rubber-covered hose



## New -16 Fitting for FC639 & FC839B

This is the ONLY TTC fitting that is qualified for FC639-16 and FC839B-16.

You must use a fitting that looks like the "3A" fitting on the right.

DO NOT USE!!



1AA16FJ16

USE!



3AA16FJ16

Marking moved up on part and embossed 3-times around for easy identification!

## Technical Data

### SPECIFICATIONS

PART NUMBER	HOSE I.D.	HOSE O.D.	MAXIMUM OPERATING PRESSURE	MINIMUM BURST PRESSURE	BEND RADIUS	WEIGHT PER FOOT
	INCHES	INCHES	PSI	PSI	INCHES	POUNDS
#						
FC639-04	.25	.52	3,000	12,000	2.00	.15
FC639-06	.38	.67	3,000	12,000	2.50	.23
FC639-08	.50	.83	3,000	12,000	3.50	.32
FC639-10**	.63	1.02	3,000	12,000	4.00	.51
FC639-12**	.75	1.19	3,000	12,000	4.75	.63
FC639-16**	1.00	1.52	3,000	12,000	6.00	.83

\*\* Two braids of high tensile wire

FC839B-04	.25	.52	3,000	12,000	2.00	.15
FC839B-06	.38	.67	3,000	12,000	2.50	.23
FC839B-08	.50	.83	3,000	12,000	3.50	.32
FC839B-10**	.63	1.02	3,000	12,000	4.00	.51
FC839B-12**	.75	1.19	3,000	12,000	4.75	.63
FC839B-16**	1.00	1.52	3,000	12,000	6.00	.83

\*\* Two braids of high tensile wire

### SPECIFICATIONS

HOSE	CONSTRUCTION MATERIALS	REINFORCEMENT	FITTINGS
FC639	Tube-Synthetic Rubber, Cover-Fire and ozone resistant synthetic rubber	One and two layers of wire reinforcement	Sizes: -4 to -16 Through-The-Cover -4 to -16 Global skive crimp
FC839B	Tube-Synthetic Rubber, Cover-Synthetic Rubber (intermediate), BRUISER™ (outer)	One and two layers of wire reinforcement	Sizes: -4 to -16 Through-The-Cover -4 to -16 Global skive crimp

**OPERATING TEMPERATURE RANGE: -40°F TO +212°F (-40°C TO +100°C)**

**WARNING:** It is important to use the correct fitting with any hose product to ensure a proper connection. Only use the fittings suggested by Eaton for this hose product. Mixing fittings and hoses by different manufacturers can lead to an unstable connection, due to differences in manufacturing techniques and tolerances. Such connections can fail and have the potential to spray and cause personal injury or property damage.

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