

Sustaining Our Environment

Eaton introduces two new products meeting global sustainability goals

New EH089 ESP hose and EH049 ESP tubing meet EPA evaporative emissions regulations for marine outboard fuel systems and small gasoline-powered lawn, garden, and turf equipment.

New Eaton EPA-certified EH089 ESP hose and EH049 ESP tubing are the latest thermoplastic products now available from Eaton's Industrial Hose Solutions. These products are specially designed for use between the fuel tank and engine. The installations will require low-permeation as mandated by the EPA.

Eaton EH089 ESP hose and EH049 ESP tubing meet evaporative emissions requirements for marine outboard fuel systems under the EPA 2010 mandate; for small gasoline-powered lawn, garden, and turf equipment under EPA 2011-2012 recommendations. This EPA certification exceeds California Air Resource

Board (CARB) regulations on a national level.

Aptly named "An Eaton Green Solution," the hose and tubing feature innovative barrier layers with extremely low-hydrocarbon permeation rate (less than 5 g/m² per day), ensuring a safer environment.

Features

- Polyvinylidene Fluoride (PVDF) barrier that is polyester-reinforced with a black MPR cover
- Meets EPA and CARB specifications
- Meet the requirements of the International Marine Certification Institute's Recreational Craft Directive 94/25/EC
- Qualified to applicable portions of SAE J1527B1 and SAE J30R6, R9, and R11 specifications
- Available in coils reels, and in custom colors

Benefits

- Extremely low fuel permeation protects our environment. Excellent flexibility and strength provide ease of handling and durability.
- Meets CARB standards and new EPA standards for low hydrocarbon permeation rates prevents non-compliance issues.
- Meets virtually any tank-to-engine requirement on marine outboard fuel systems and small gasoline-powered lawn, garden, turf equipment in working temperatures from -32°C to +66°C (-25°F to +150°F).



Powering Business Worldwide



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Eaton ESP fuel lines
custom designed to
meet your needs

EH049 ESP tubing



EH089 ESP hose



Markets

- Marine
- Turf Care
- Lawn and Garden equipment
- Small engine applications

Applications

- Tank-to-engine fuel delivery
- Petroleum-based chemicals
- Biodiesel fuels to B100
- Marine fuel lines
- Temperature range from -32°C to +66°C (-25°F to +150°F)

Test Requirements SAE	J30R6	J30R9	J30R11	J1527R1
Burst	Pass	Pass	Pass	Pass
Vacuum Collapse	Pass	Pass	Pass	Pass
Tensile	Pass	Pass	Pass	Pass
Elongation	Pass	Pass	Pass	Pass
Dry Heat Astmd573	Pass	Pass	Pass	Pass
Fuel Resistance Astmd471	Pass	Pass	Pass	Pass
Extractables	Pass	Pass	Pass	Pass
Ozone	Pass	Pass	Pass	Pass
Adhesion	Pass	Pass	Pass	Pass



Part Number	Hose I.D.		Hose O.D.		Working Pressure@		Weight		Standard Length		Package
	mm	in	mm	in	20°C mPa	68°F PSI	Kg/m	lb/ft	m	ft	
EH049 ESP™ Tubing											
EH049-04	6,35	.250	9,53	.375	0,35	50	,045	.030	30,48	100	Coil/Box
EH049-05	7,92	.312	11,13	.438	0,35	50	,054	.036	30,48	100	Coil/Box
EH049-06	9,53	.375	12,70	.500	0,35	50	,064	.043	30,48	100	Coil/Box

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	mm	in	mm	in	20°C mPa	68°F PSI	Kg/m	lb/ft	m	ft	
EH089 ESP™ Hose											
EH089-04	6,35	.250	12,45	.490	1,72	250	,124	.083	30,48	100	Coil/Box
EH089-05	7,92	.312	14,10	.555	1,72	250	,143	.096	30,48	100	Coil/Box
EH089-06	9,53	.375	15,88	.625	1,72	250	,156	.105	30,48	100	Coil/Box

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