

Eaton Synflex Hydraulic Hose Synflex - 3VE0



Overview & Features

8,000 to 10,000 PSI Non-Conductive Hydraulic Hose

Features

- Tube: Co-extruded, Nylon lined
- Reinforcement: Spiral, high-tensile aramid fiber
- Cover: Orange, non-perforated polyurethane
- Sizes: -03, -04, -06
- Fittings: Synflex (90V, 9CV Stainless)
- Maximum operating pressure: 552 to 689 bar (8,000 to 10,000 psi)
- Temperature range: -40°C to +66°C (-40°F to +150°F)
- Low volumetric expansion - less than +/- 2%
- SAE J517 non-conductive hose construction
- <50 micro-amperes leakage when subjected to 75,000 volts/ft. for five minutes

Where Used

Buildings

Applications:

- Hydraulics on Test Equipment

Mobile machinery and equipment

Platforms:

- Aerial Work Platforms (Scissor & Boom)
- Crane
- Lift Trucks
- Telehandler

Applications:

- Hydraulic Circuits

Vehicles

Platforms:

- Fire and Rescue

Applications:

- Hydraulic Rescue Tools

Value Propositions

= Denotes point of differentiation

Value Proposition Statement	Audiences		
	OEM	Distributor	End User
Synflex brand strength and awareness positively influences perceived value.			
As an engineered system, Synflex assures product performance, reliability, and offers a full range of assembly tools and equipment.			

Eaton conducts burst testing of hose in every production lot to ensure quality and performance.			
Eaton exclusive spiral wound aramid reinforcement provides exceptional flexibility and tighter bend radii (up to 50%) when compared to rubber hydraulic hose. Spiral winding increases production throughput lowering product lead times and facilitates easier routing and installation in tight spaces.			
Thermoplastic hose has exceptional flexibility and tighter bend radii (up to 50%) when compared to rubber hydraulic hose.			
Thermoplastic hose can be produced in extremely long lengths reducing scrap.			
Synthetic reinforcement maintains flexibility in extremely cold temperatures.			
For the identical ID, thermoplastic hose has a smaller OD than wire braid rubber hose. This allows for smaller hose offerings (3/16") unavailable in rubber hydraulic hose which helps support applications with lower flow rates.			
Hose can be bonded creating multi-lines (up to six) allowing systematic installation at the port and avoiding hose against hose abrasion.			
Hose can be formed into complex shapes providing the performance and tight tolerances of steel tubing with the flexibility of hose.			
Thermoplastic is significantly lighter in weight (up to 2x) when compared to rubber hydraulic hose. Reduces handling fatigue, aids in quicker, easier routing.			
Reduces MRO and Associated Costs			
Intrinsically resistant to ozone, ultraviolet light, and aging – resists fading and cracking to provide longer service life.			
Superior abrasion resistance (100 times greater than rubber hydraulic hose).			
Sheathing offers resistance to hydrolysis & microbes.			
Excellent chemical compatibility including detergents and solvents.			
Hose can be cut manually with a hand-held device, field assembled, and serviced.			
Long shelf life, hose maintains flexibility over long periods of time.			

Tools & Collateral

Catalog

[Eaton Synflex Master Catalog E-HOOV-MC001-E2 \(Global\)](#)

[Eaton Synflex Swage Adapter Kit E-MEAD-TT002-E \(Global\)](#)

[Eaton Aeroquip Crimp Specifications for Eaton Synflex Hose A-EQCR-TM005-E1 \(Global\)](#)

[Eaton Weatherhead Crimp Specifications for Eaton Synflex Hose W-EQCR-TM018-E \(Americas\)](#)

Product Images

[Eaton Synflex Product Images](#)

Video

[How to Build an Eaton Synflex High Pressure Hose Assembly](#)

Website

[Eaton Synflex Website](#)