

**Eaton Synflex Hydraulic Hose**  
**Synflex - 3R30 SAE 100R3**



## Overview & Features

General Hydraulic Non-Conductive Hose

### Features

- Tube: Co-extruded tube, Urethane and Nylon
- Reinforcement: Braided synthetic fiber
- Cover: Orange non-perforated polyurethane
- Sizes: -04, -06, -08, -12, -16
- Fittings: Synflex (903, 90A, 9C6), Polyon, TTC/Z-Series with sleeve, and U-Series (-04, -06, -12, -16)
- Meets or exceeds SAE 100R7 specifications
- Non-conductive for use where potential electrical shock is possible
- Maximum operating pressure: 69 to 192 bar (1,000 to 2,800 psi)
- Temperature range: -40°C to +100°C (-40°F to +212°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



### Mobile machinery and equipment

**Platforms:**

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

**Applications:**

- Hydraulic Circuits



### Vehicles

**Platforms:**

- Trailers

**Applications:**

- Hydraulic Circuits

## Value Propositions

★ = Denotes point of differentiation

<b>Value Proposition Statement</b>	<b>Audiences</b>		
	<b>OEM</b>	<b>Distributor</b>	<b>End User</b>

	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.			
★	No Parker Parflex direct equivalent.			
	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 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

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### Brochure

[Eaton Thermoplastic Hose Crimp Sleeve E-SPOV-MR001-E \(Global\)](#)

### 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](#)

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

### Website

[Eaton Synflex Website](#)