Eaton Synflex Hydraulic Hose
Synflex - 3130 SAE 100R7

Overview & Features

General Hydraulic Hose (Focus)

Features

- Tube: Co-extruded tube, Urethane and Nylon
- Reinforcement: Spiral synthetic fiber (-03 thru -06), braided synthetic fiber (02, -08 thru -16)
- Cover: Black perforated polyurethane
- Sizes: -02, -03, -04, -05, 06, -08, -12, -16
- Fittings: Synflex (903, 90A Stainless, 9C6 Brass), Polyon, TTC/Z-Series with sleeve, and U-Series
- Meets or exceeds SAE 100R7 specifications
- Maximum operating pressure: 69 to 207 bar (1,000 to 3,000 psi)
- Temperature range: -40°C to +100°C (-40°F to +212°F)
- Low volumetric expansion - less than +/- 2%

Where Used

Machine building

Platforms:
- Coal Mill
- Metal Hydro Forming
- Metal Stamping and Shearing
- Plastics

Applications:
- Hydraulic Lines

Marine

Applications:
- Power Steering

Mining, metals and minerals

Platforms:
- Ball Mill
- Coal Mill
- Continuous Miner
- Conveyors
- Excavator
- Exploration Drill Rig
- Foundry Casting
- Highway Vocational Truck
- Longwall Mining System
- Mobile Crusher
- Off-Highway Dump Truck
- Reclaimer
- Rope Shovel
- Semi-Continuous Mining System
- Shuttle Car
- Stacker
- Stationary Crusher
- Steel Mill Furnaces
- Surface Drill Rig
- Underground Drill Rig
- Wheel Loader

Mobile machinery and equipment

Platforms:
- 0-40 hp
- 100+ hp
- 40-100 hp
- All hp
- Backhoe Loader
- Balers
- Biomass Processing
- Combines
- Compactor
- Concrete Pump
- Crawler Dozer
- Defoliating Equipment
- Delimers
- Excavator
- Feller Bunchers
- Forwarders
- Irrigation Systems
- Loaders
- Paver
- Row Crop Planters
- Self-Propelled Forage Harvesters
## Value Propositions

<table>
<thead>
<tr>
<th>Value Proposition Statement</th>
<th>Audiences</th>
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<tr>
<td>Eaton Synflex brand strength and awareness positively influences perceived value.</td>
<td>OEM Distributor End User</td>
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<td>As an engineered system, Eaton assures product performance, reliability, and offers a full range of assembly tools and equipment.</td>
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<td>★ Eaton conducts burst testing of hose in every production lot to ensure quality and performance.</td>
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<td>★ Eaton exclusive spiral wound synthetic reinforcement provides exceptional flexibility and tighter bend radii (up to 50%) when compared to braided rubber hydraulic hose and competitive thermoplastic hose offerings. Spiral winding facilitates easier routing and installation in tight spaces.</td>
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<td>Thermoplastic hose can be produced in extremely long lengths reducing scrap.</td>
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<td>Synthetic reinforcement maintains flexibility in extremely cold temperatures.</td>
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<td>For the identical ID, thermoplastic hose has a smaller OD than wire braid rubber hose. This allows for smaller hose offerings (1/8&quot; and 3/16&quot;) unavailable in rubber hydraulic hose which helps support applications with lower flow rates.</td>
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<td>Hose can be bonded creating multi-lines (up to six) allowing systematic installation at the port and avoiding hose against hose abrasion.</td>
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<td>Hose can be formed into complex shapes providing the performance and tight tolerances of steel tubing with the flexibility of hose.</td>
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<td>Thermoplastic is significantly lighter in weight (up to 2x) when compared to rubber hydraulic hose. Reduces handling fatigue, aids in quicker, easier routing, helps fleet CAFÉ averages and maximizes payload.</td>
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<td>Reduces MRO and Associated Costs</td>
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<td>Intrinsically resistant to ozone, ultraviolet light, and aging – resists fading and cracking to provide longer service life.</td>
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Superior abrasion resistance (100 times greater than rubber hydraulic hose).

Sheathing offers resistance to hydrolysis and 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

Brochure
- Eaton Thermoplastic Hose Crimp Sleeve E-SPOV-MR001-E (Global)
- How to Build an Eaton Synflex Hydraulic Hose Assembly

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)
- Eaton Weatherhead Crimp Specifications for Eaton Synflex Hose W-EQCR-TM018-E (Americas)

Product Images
- Eaton Synflex Product Images

Sales Kit
- Eaton Synflex Hose Sample Kit E-HOTH-MK001-E (Americas)

Video
- How to Build an Eaton Synflex High Pressure Hose Assembly

Website
- Eaton Synflex Website