


Eaton® Synflex®
Subsea Product Line

A large red and white offshore supply vessel is shown at sea. The vessel has a prominent red hull and a white superstructure. It features a complex deck structure with various equipment, including radar domes and a tall mast. The vessel is moving through the water, creating a wake.

Hose and Control Bundle Capabilities

EATON

Powering Business Worldwide



HCR Collapse-Proof Hose



High Pressure Hose



Hose Design

- Eaton, through the Synflex brand, has been designing high pressure subsea hoses for over 25 years
- In early years, Synflex was the first to invent thermo-plastic hose and have been producing them for over 40 years
- Full range of hose pressures and sizes and materials
 - Hoses up to 15,000 psi, ID to 2", continuous lengths over 13,000 ft long
- Leading edge materials and design

Materials Design

- Eaton is constantly researching new materials and developing new hose and tubing with cutting edge capabilities such as:
 - fluoropolymer lined core tube
 - fire resistant extruded jacket
 - 15,000 psi working pressures
- Multi-layer extrusion can solve many of the application problems, such as chemical permeation, that are encountered today

Manufacturing

- Extensive extrusion and reinforcement processes
- These processes are mature with substantial expertise embedded in the plant
- Large cabling equipment for the production of control hose bundles
- Bundling equipment is capable of 6" OD bundles and lengths over 10,000 ft

Synflex Subsea Hose from Eaton

For more than 40 years, Synflex has provided innovative products for subsea applications. Our engineers are experts in understanding material properties and solving technical problems. Synflex bundles are built to meet and exceed the most demanding requirements, including API 17E. We specialize in producing long continuous lengths of subsea hose.





Blow-Out Prevention Bundles (BOP)



Workover Bundles

Over the years, our world-class operations have created tens of millions of feet of high-quality subsea hose and countless miles of subsea control bundles.

We have the right hoses and bundles for your subsea needs.



For more information on Synflex Products, please refer to our website at: www.eaton.com/hydraulics

Fitting Design

- Eaton is world class in the design and production of hose fittings and couplings
- A wide array of designs are available along with the tooling needed to apply them
- Custom design capabilities are also available along with a wide choice of materials, from stainless steel to duplex, and titanium

Bundling of Hose and Wire

- Low tension planetary cabling equipment can produce 10,000 ft bundles, eliminating internal torque
- Low torque results in stable, less "jumpy" bundles
- Bundles are produced with hose, wire, optic fiber, and strength member combinations
- Capable of bundles up to 6" OD and over 10,000 ft
- Hose bundles can be delivered on spools or deployment reels and as complete turnkey systems

Testing

- Testing equipment available for standard quality checks as well as API 17E qualification
- Pressure tests, cleanliness certification, cold temp, bend radius tests are among a few critical tests that are performed in the plant (pressure capability to 40k lbs)
- Other testing requirements are available through the wide Eaton network of service providers

Turnkey Systems

- Control bundle turnkey systems are available
- Hydraulic flying lead turnkey systems are available
- Global availability of turnkey system

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