

# FIBERSPAR TECH NOTES

Product, service and cost savings information from the leader in spoolable pipeline systems

## Reliable, full-strength, mechanical connectors for Fiberspar LinePipe™

Join LinePipe sections in the field quickly and easily, using ordinary hand tools.

Fiberspar patented LinePipe connectors use mechanical compression and elastomeric seals, and do not rely on glue, epoxies or threads cut in the laminate. Connectors are easy to install using common hand tools. Personnel can be quickly trained in the proper procedure. Fiberspar connectors have a design safety factor of more than four times the pipe operating rating.

### Choose your preferred service-end option.

There are two types of Fiberspar Compression Slip Connectors. Pipe-to-pipe connections are used to join two lengths of LinePipe. Service-end connectors join Fiberspar LinePipe to your system or existing lines. Service-end connectors are available with:

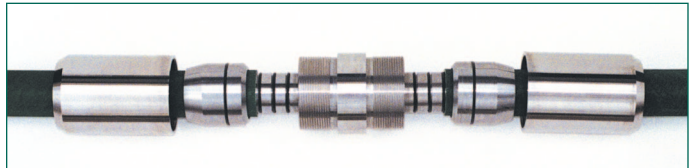
- Weld Prep—Suitable for welding to existing steel lines
- Welded on Flange—300, 600, 900 or 1500 Series ANSI Flanges
- Threaded—NPT or 8 Round EUE pin or box or API Line Pipe Thread

Custom end-preps are available on request.

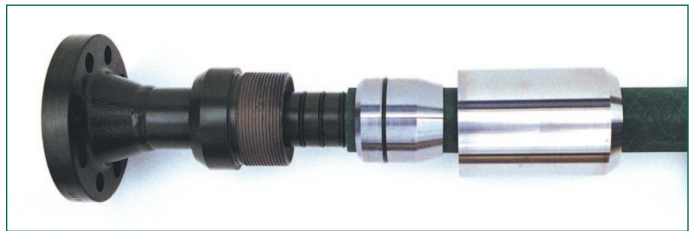
Fiberspar connectors are available in:

- Carbon Steel
- 316/316L Stainless Steel
- Other Corrosion Resistant Alloys (CRA) available upon request

All standard (non-stainless) connectors are coated for corrosion protection suitable for harsh oilfield environments.



Above: Pipe-to-pipe connector. Below: Flanged service-end connector.



### Fast and simple to install.

A few basic hand tools are all that's required to install Fiberspar connectors. Total assembly time per connector is about 25 minutes or less in most applications. Connectors are easy to handle. Connectors are also reusable.

The combination of Fiberspar LinePipe and our patented connectors offers remarkable benefits unavailable anywhere else. And they all add up to one thing: lower installed and operating costs for your flowlines.

Fiberspar is a leader in composite technology. With more than 20 years of innovation, we have the experience and resources to help you do the job right. Contact us today for help with your application.

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API Q1, ISO 9001:2008, ISO/TS 29001 Registered

Fiberspar® spoolable composite pipe and fittings are covered by one or more of the following U.S. Patents: 6,016,845, 5,921,285, 6,148,866, 6,286,558, 6,357,485, 6,604,550, 6,857,452, 7,285,333, 6,004,639, 6,361,299, 6,706,348, 5,988,702 and one or more of the following Canadian Patents: 2,233,295, 2,282,358, 2,321,536, 2,409,304, 2,305,148, 2,233,345. Additional U.S. and Canadian patents are pending.



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