



Control Lines & Flatpacks

Flatpacks

ENCAPSULATION & FLATPACKS

Flatpacks are designed to simplify installation and reduce the number of installation spooler units required during well completion. Flatpacks are available in a wide range of configurations with options of single pass encapsulation and dual pass encapsulation for added protection. Individual components and tubes can be color coded and custom printed for immediate identification and if additional crush resistance is needed, bumper bars and /or wire rope can be specified.

APPLICATION

Flatpacks are commonly used when several different lines are terminated at approximately the same depth in the well. Common applications include intelligent well systems, deep-set chemical injection lines with downhole gauge cable and safety valve lines with shallow set chemical injection lines. For some applications bumper bars are also encapsulated into the flatpack to provide additional crush resistance.

STANDARDS & APPROVALS

Control Lines are manufactured according to applicable ASTM standards for each specific material. Tubes can be supplied flushed, filled, and filtered per client requirements and to the appropriate NAS/SAE standards.

QUALITY & TESTING

- Manufactured in accordance with Standard Inspection and Quality Plans

DESIGN & CONSTRUCTION

- Encapsulation for single and multiple lines
- Optional Bumper Bars
- Safety-Strip® Encapsulation (standard)
- Up to 8 lines can be flatpacked
- Encapsulation profiles to suit customer application
- Custom Line Marking
- Full range of application materials
- Optional Flush & Fill

Components (Or Combination)

- TEC
- TEF
- Hybrid
- Control Lines
- Bumper Bars

Encapsulation Materials

- PP (Polypropylene) /TPR (Santoprene) / PA (Nylon) / PVDF / ETFE (Tefzel) / ECTFE (Halar) FEP / PFA / ECA 3000

Bumper Bars

- 5/16" / 7/16" / 1/4" / 3/8/ Galvanized

Pressure Ratings

*Note: Flatpacks will be rated to the line with the lowest pressure rating.



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