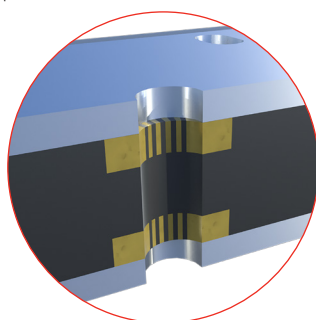
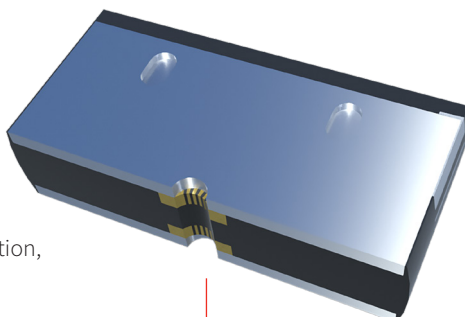


# Elmar Constrictor Multiline Ram Inner Seal

Designed for performance you can trust, the Constrictor™ multiline ram seal is certified, multi size and long lasting with repeated activation, keeping your team safe and your costs low.

A reliable wireline valve or wireline valve seal is one of the most important safety barriers which prevent the catastrophic release of well pressure and ensures the safety of both your personnel and the environment.

Our patented Constrictor is the well intervention industry's first multiline seal designed to be third party witnessed and certified at extreme conditions. Seals are certified by gas testing for 12 continuous hours, sealing blind and at temperatures ranging from -46 °C to 180 °C to best simulate a diversity of working environments.



The Constrictor is a wireline valve (formerly known as wireline BOP) multiline ram seal that controls well fluids through the wellbore during intervention operations involving braided line or electric line. It has evolved from earlier commercially proven ram seals, improved to be even more reliable, require less maintenance and operate under more challenging pressure and temperature conditions for longer durations.

This technology is the first of its kind to be third-party witness tested under extreme pressure, temperature, and time conditions, and then obtain an independent review certificate. Benefits verified by an independent third party include:

- In the event of unexpected cut and drop, it can seal blind, contain wellbore fluids for at least 12 hours, and seal successfully on any wireline up to 5/16 or 15/32 in. depending on version installed
- Standard seal has a wide operating temperature range whilst maintaining stated performance
- Fits existing Elmar Q-Guide™ rams and can be retrofitted to an existing wireline valve while in operation and used repeatedly without degradation, making it suitable for fishing operations

Note: Pressure rating dictated by chosen wire range size.

### Features and benefits

- Repeated sealing action means fewer redresses required and minimizes costs
- Certified extreme performance to assure the safety of your crew
- NORSOK M710 elastomers and 16A qualified testing and certification
- 15,000 psi third party witnessed and certified from -12 °C to 121 °C
- 12-hour gas hold
- Working pressure of 15,000 psi
- Operating temperatures in addition to normal range:
  - Arctic: -46 °C to 30 °C
  - Elevated: 20 °C to 180 °C



### Options

HNBR supplied as standard, other elastomer types available

Available wire size ranges for Constrictor

- Blind to 5/16 in.
- 5/16 to 15/32 in.
- Blind to 15/32 in.