



## GENERAL PRODUCT SHEET

### High Re-Pressure Casing Annulus Packer (HI-RP CAP)

#### PRODUCT DESCRIPTION:

The Casing Annulus Packer (CAP) is run as an integral part of the casing string and inflated to provide an annular seal between the casing and open hole or previous casing string. It can be inflated by applying pressure to the casing after a plug bump or by using an inflation tool run on pipe. The CAP is constructed utilizing the unique TAM slat element, a fully reinforced design mounted on a pup joint of API casing with threads and weight matching the casing string. CAPs range from 1.90 in. to 20 in. (48 mm to 508 mm) with seal lengths from 3 ft to 20 ft (0.9 m to 6.1 m). In addition to the standard range, TAM is able to design, verify, and manufacture special customer-specific products.

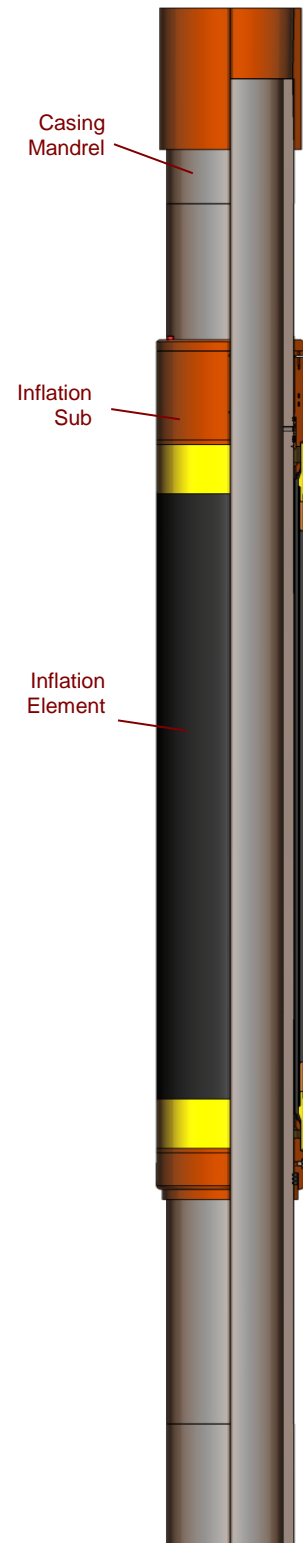
The High Re-Pressure CAP includes a higher grade material in the valve sub, which is designed to withstand internal pressures up to 10,000 psi. This design allows the CAP to withstand the high pressures encountered by the casing string during hydraulic fracturing operations or casing internal pressure testing. Customers may supply premium threaded pup joints of their casing to TAM and have the inflatable CAP built on their pipe or TAM can supply the pipe. This maintains the complete integrity and traceability of their casing string for critical well completions. CAPs with standard casing sizes and grades are available for order.

#### PROVIDE SOLUTIONS FOR:

- Two-stage cementing
- Annular gas migration
- Wellbore compartmentalization
- One trip, off bottom cement operations
- Annular isolation for multi-stage fracture treatments
- Water shut off or cement squeeze in open hole
- High re-pressure well completions

#### FEATURES:

- Two distinct construction options:
  - Fully reinforced elements with high-strength stainless steel slats to reinforce the full length to the inflatable element
  - Partially reinforced elements with discontinuous stainless steel slats extending from each end
- Reliable SafeLok™ inflation valve system, which can be run above or below the inflation element, can withstand re-pressure up to 10,000 psi.





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**BENEFITS:**

- Constructed using a one-piece casing mandrel
- No internal connections
- No welding to the casing mandrel during construction
- SafeLok valve system
  - Maintains casing string integrity
  - Provides delayed opening
- High re-pressure capability

**TOOL SIZES:**

Casing Size		Internal Rating	Element OD	
(in.)	(mm)	(psi)	(in.)	(mm)
4-1/2	114.3	10,000	5.56	141.22
5-1/2	139.7	10,000	6.56	166.62
7	177.8	10,000	8.19	208.03