



GENERAL PRODUCT SHEET

Hi-Temperature Casing Annulus Packer (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.

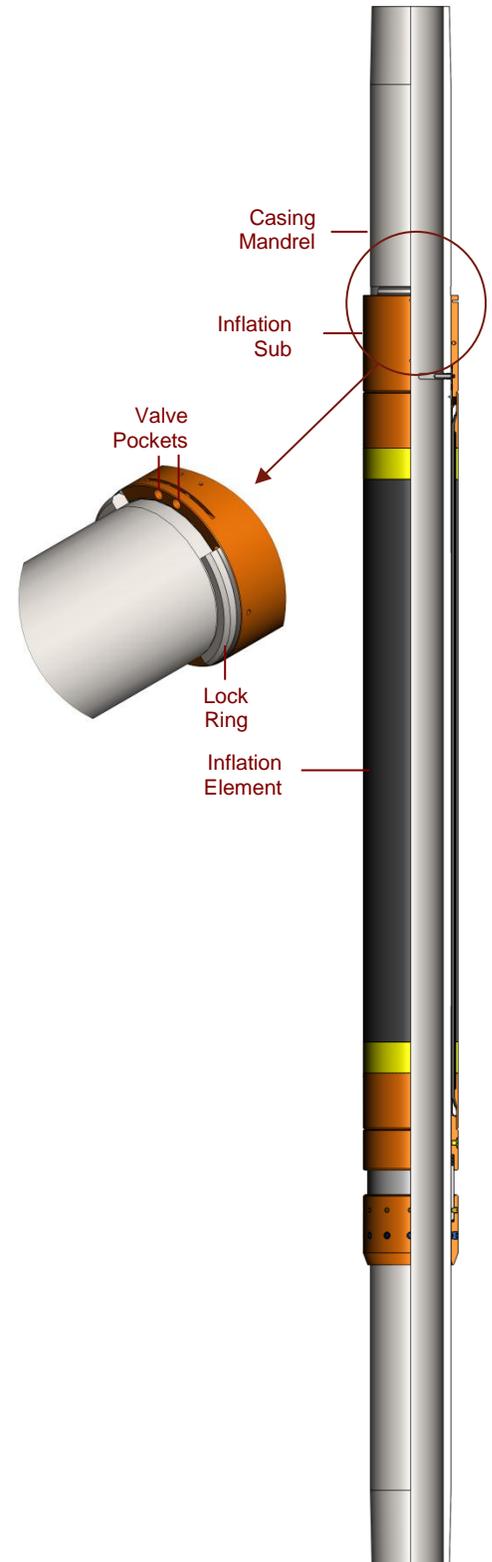
TAM designed the Hi-Temperature CAP for applications where the downhole temperatures can reach up to 300°F (149°C). This tool retains the CAP's superior capability for a wide variety of applications where a seal is required between the casing and open hole (or previous casing string). Customers may supply premium threaded pup joints of their casing to TAM and have the inflatable CAP built on their pipe. This maintains complete integrity and traceability in their casing string, especially for critical well completions using exotic metals. The greatest advantage is that CAPs enhance customer flexibility in planning a completion.

PROVIDE SOLUTIONS FOR:

- Two-stage cementing
- Annular gas migration
- Wellbore compartmentalization
- One trip, off bottom cement operations
- Annular isolation for multi-stage fracture treatments
- High-temperature well completions

FEATURES:

- Two distinct constructions:
 - Fully reinforced elements with high-strength stainless steel slats to reinforce the full length of the inflatable element
 - Partially reinforced elements with discontinuous stainless steel slats extending from each end
- The Reliable SafeLok™ inflation valve system, which can be run above or below the inflation element, is dressed with Viton seals
- Lock rings prevent the packer element from moving relative to the mandrel when exposed to high temperatures and pipe movement
- Can be cement inflated as required





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BENEFITS:

- Constructed using a one-piece casing mandrel
- No hidden internal connections
- No welding to the casing mandrel during construction
- SafeLok valve system
 - Maintains casing string integrity
 - Provides delayed opening
- External packer components mechanically locked to the packer mandrel

TOOL SIZES:

Casing Size		Element OD	
(in.)	(mm)	(in.)	(mm)
3-1/2	88.9	4.63	118
4-1/2	114.3	5.56	141
5	127	6.06	154
5-1/2	139.7	6.56	167
7	177.8	8.08	205

**Other sizes can be provided as required*