

TIP – Retrievable Inflatable Packer System

2-1/8-in.

The 2 1/8-in. TAM Inflatable Packer (213-TIP) is a versatile single set, pull release packer for zonal isolation. The 213-TIP is ideal for thru-tubing applications deployed on coiled tubing. The packer can run through restrictions in the wellbore and set in larger diameters. The TIP is an ideal packer for testing, treating, cementing, production and many other zonal isolation applications. The packer is easily converted into a bridge plug or cement retainer.

The tool operates by pressuring up the work string to create differential pressure inside the inflation element. Once all work is completed the packer can be deflated with tension and pulled back through restrictions in the well. The TIP is a single set packer and must be removed from the well between settings.

Provide Solutions For:

- Acid or Chemical Treating
- Mechanical Integrity Testing
- Cementing Packer
- Injection Packer
- Permanent Bridge Plug

Features:

- Deflation groove cut into packer tube allows equalization above and below packer
- Spring-loaded poppet valve to contain inflation pressure and keep inflation element pressure balanced while lowering tool into the well. Delayed opening option available.
- The 213-TIP chassis will accept multiple element types and sizes from 2.13-in. (54mm) through 3.75-in. (95.3mm) OD
- Straight-pull release with an 9.5-in. upward stroke

Benefits:

- Simple to operate with no reciprocation of the work string required
- Fluids can circulate through the tool at higher rates without inflating the element
- Can be deployed on coil tubing or work string
- Release mechanism provides positive indication the tool is in the release position

| Description | Specifications | |
|-----------------------------|------------------------|-------------|
| Bore ID (Nominal) | .56 in | 14.2 mm |
| Overall Length | 126 in | 3.2 m |
| OD (Nominal) | 2.19 in | 55.6 mm |
| Material | ESMA 2005 (MYS 110ksi) | |
| Thread Size/Type | 1.75 in. Acme | |
| Collapse Pressure | 7,000 psi | 482.6 Bars |
| Burst Pressure | 7,000 psi | 482.6 Bars |
| Tensile Strength | 30,400 lbs | 13,789 kg |
| Operating Temperature Range | 40 to 300°F | -4 to 149°C |

Industry Standard: API 11D1 compliant Q3 quality grade with V6 validation



General Product Sheet

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| Nominal Tool OD (Gage Ring) | | Available Element Sizes | |
|-----------------------------|-------|-------------------------|-------|
| (in.) | (mm) | (in.) | (mm) |
| 2.19 | 55.63 | 2.13 | 54.1 |
| 2.63 | 66.8 | 2.50 | 63.5 |
| 3.00 | 76.2 | 2.90 | 73.66 |
| 3.62 | 91.94 | 3.50 | 88.9 |
| 3.94 | 100 | 3.75 | 95.3 |

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