

Annular Expandable Barrier (AXB)



Product Description:

AXB represents IPI's next-generation expandable solution, built on decades of proven expertise in metal expandable technology. Engineered with a bonded elastomeric seal stack and enhanced metal-to-metal sealing capability, AXB delivers a permanent, gas-tight, bidirectional barrier operators can depend on in the most demanding well conditions.

Its streamlined architecture and minimal moving parts are purposefully designed to maximize durability and enable smooth rotation during deployment, ensuring efficient installation and consistently reliable downhole performance.

Highly adaptable by design, AXB can be configured across a broad range of base pipe specifications and elastomer compounds, and seamlessly integrating with customer casing or liner specifications. The result is a fully customized, high-performance zonal isolation solution, engineered to meet the precise technical and operational requirements of each well.

Applications:

- ◆ Annular isolation (Open Hole and Cased Hole)
- ◆ Zonal isolation
- ◆ Sustained Casing Pressure
- ◆ Production packer
- ◆ Liner or casing hanger
- ◆ Base for cement: multi-stage cementing or future abandonment

Features & Benefits:

- ◆ Custom seal stack designs, lengths and rubber compounds (HNBR, Viton, FFKM), with temp ratings up to 600°F (315°C)
- ◆ Metal to metal sealing capability
- ◆ Tested in accordance to API11D1 standards – V0 rating in cased hole (gas tight), V3 rating in open hole
- ◆ High pressure differential ratings*
- ◆ Integrated safeguard with pressure relief valve
- ◆ Premature activation valve - locked while running in hole, circulating, displacing and cementing
- ◆ Casing integrity - Shut in valve eliminating communication path from inside the casing to the expansion chamber
- ◆ Built on customer specified base pipe – same size, weight, grade & metallurgy as the rest of the casing and liner string
- ◆ Full bore ID, no internal restrictions
- ◆ Robust build construction allowing full rotation while deploying

Available Sizes**:

Can be built on 2-3/8" tubing up to 13-3/8" casing. Custom sizes are also available.

*Differential rating depending on application and tool size

**For parameters and sizes not listed here, please contact your nearest [IPI Packers office](#) or submit your query using the [contact form](#).

