

High-Temperature Variable-Bore Rams

Sealing for a wide range of pipe diameters



Time/Endurance:
up to 11-h extended hold



Temperature:
300 degF

Applications

High-temperature drilling and production operations.

How it improves wells

High-temperature variable-bore rams provide a seal to a range of diameters. They are suited for H₂S service per NACE MR0175 and compatible with U* surface ram-type BOP. The ram packers lock into place and are not dislodged by well flow. Additionally, a large reservoir of packer rubber ensures a long-lasting seal under all conditions.

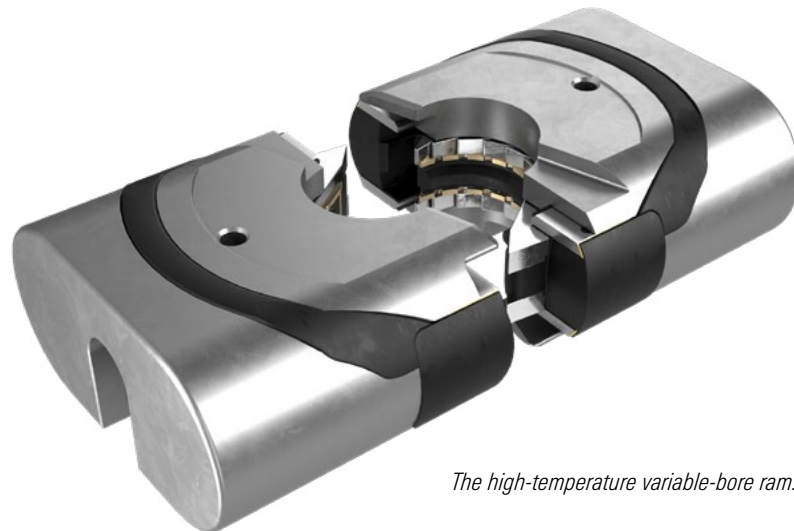
How it works

The rams' mechanism of closure is similar to standard pipe ram packers. The packers extend forward of the ram body faces. When the rams are closed, the packers contact each other on the leading surfaces at the sides of the pipe bore. As the rams continue to close, the rubber and specially designed inserts in the packers are displaced inward to close the packers around the pipe.

Additional information

API Qualifications	
Performance rating	PR2
Temperature rating, API	EBE [†]
Extended hold tested	300 degF 11 h on 3½-in mandrel 8 h on 5½-in mandrel
Fatigue pressure cycles completed	78
Stripping equivalent	10,541 ft [3,213 m]
BOP sizes	13⅝-in 3,000- to 10,000-psi U BOP
Tubular range	3½–5½ in

[†] EBE refers to API 4th edition temperature code: E = low temperature, 30 degF; B = continuous temperature, 180 degF; E = extreme temperature, 300 degF.



The high-temperature variable-bore ram.