

POLISHED BORE ASSEMBLY



Applications: Management of extreme tubing forces | Production, Injection or Stimulation | Standard, Sour Service and HPHT



Vikings Polished Bore Assembly (PBA) manages tubing to annulus pressure integrity combined with tubing expansion and contraction. It comprises two main components, a Polished Bore Receptacle (PBR) and a Sliding Seal Assembly (SSA).

The PBA is run in hole on the tubing string, as single trip, with a production packer set below, to the desired setting depth. Hydraulic pressure is applied to the tubing string against a plug below the production packer to create a pressure seal against the casing wall.

After release of packer setting pressure, the completion is spaced out, shearing out the integral SSA from the PBR.

When the tubing hanger is landed the SSA can be positioned to allow for expansion and contraction of the string. A unique feature of the PBA is that it can accommodate the full compression rating of the packer below effectively increasing the ability of the upper completion to lengthen.

To remove the packer from the wellbore the tubing string is cut above the packer and a dedicated milling string is run to mill the packer and retrieve it from the well with minimal removal of material.

Benefits

- Single Trip Design
- Rugged deployment capability
- Allows for tubing contraction and expansion
- Designed for high tubing load scenarios
- High pressure, tensile and compression ratings
- Available for standard and sour service
- Retrieved independently from packer



FEATURES

- ✓ Up to 15,000 psi working pressure
- ✓ Available with connections to suit tubing string
- ✓ Sizes to suit 5-1/2" to 13-3/8" casing
- ✓ Retrieval profile option
- ✓ Tubing to annulus pressure integrity with up to 30ft Stroke
- ✓ Materials to suit all well environments
- ✓ Qualified up to API 19AC V0



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General Information				
Product Number	12PBA264	12PBA350	12PBA475	12PBA600
Minimum Casing Size	4-1/2"	5-1/2"	7.000"	9-5/8"
Maximum OD	3.500"	4.450"	5.799"	9.055"
Seal Bore Length	180"	240"	360"	360"

Through Bore Configurations				
Tubing Connection Size	2-3/8"	2-7/8"	3-1/2"	4-1/2"
Minimum ID	1.930"	2.375"	2.949"	3.903"
	ID adjusted to suit end connection blanking dimension			
Tensile Strength	Equal to end connections			
Compression	To suit Packer Envelope in Compression			

Materials	
Common Metallurgies	L80, 13% Chrome & Incoloy 925
Elastomer	Non-Elastomeric Thermoplastic
Temperature Rating	25-177 °C

Performance Data	
Pressure Rating	Up to 15,000psi

Operation Data	
Running Method	Set with Upper Completion and Packer in Single Trip
Release Method	Straight Pull of Upper Completion
PBR Release Method	Cut tubing below PBR & Spear, optional retrieval profile
Special Feature(s)	Adjustable Shear Release Mechanism
Validation Grade	API Spec 19AC VO
Quality Grades	Q1, Q2, Q3



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