

Cameron dl annular bop

cameron dl annular bop is a critical component in the oil and gas industry, specifically designed to enhance safety, efficiency, and well control during drilling operations. As a vital part of the Blowout Preventer (BOP) system, the Cameron DL annular BOP plays a significant role in sealing, isolating, and controlling well pressures, especially in complex drilling environments. Understanding the features, functions, and maintenance of the Cameron DL annular BOP is essential for engineers, operators, and safety personnel involved in drilling operations. This comprehensive guide explores everything you need to know about the Cameron DL annular BOP, its importance in well control, key features, operational considerations, and maintenance practices.

What is a Cameron DL Annular BOP? Definition and Purpose The Cameron DL annular BOP is a type of blowout preventer designed to seal around various sizes of drill pipe, tubing, or even a lost tool within the wellbore. Its primary purpose is to prevent the uncontrolled release of formation fluids, which can lead to blowouts, environmental hazards, and equipment damage. The annular BOP is versatile because it can seal around different diameters, making it an essential safety device during drilling, completion, and workover operations.

Key Functions

- Sealing the wellbore during drilling or workover operations.
- Containing well pressure to prevent blowouts.
- Facilitating well control procedures, such as mud circulation or shut-in procedures.
- Providing a reliable barrier in emergency situations.

Features of the Cameron DL Annular BOP Design Attributes The Cameron DL annular BOP is engineered with robust materials and innovative

design features to withstand high pressures and harsh operational conditions. Some of its notable features include:

- Flexible rubber sealing element: Capable of sealing around various pipe sizes and shapes.
- Hydraulic or pneumatic actuation: Ensures quick and reliable operation.
- Heavy-duty chassis: Designed for durability and long service life.
- Pressure ratings: Typically rated for high-pressure well conditions, often exceeding 15,000 psi.
- Multiple sealing elements: To provide redundancy and safety during operations.

Material Composition The materials used in the Cameron DL annular BOP are selected for strength, elasticity, and resistance to chemical corrosion. Common materials include:

- High-grade elastomers for sealing components.
- Hardened steel or alloy for the chassis and moving parts.
- Sealing rings resistant to high temperatures and corrosive fluids.

Size and Compatibility The Cameron DL annular BOP is available in various sizes to accommodate different wellbore diameters and operational needs. Compatibility with other BOP components and wellhead equipment is crucial for seamless integration.

Operational Advantages of the Cameron DL Annular BOP

Versatility in Sealing - Can seal around drill pipes, tubing, and even irregular objects. - Suitable for a wide range of wellbore sizes, reducing the need for multiple BOP types.

Rapid Deployment - Hydraulic or pneumatic actuation allows for quick opening and closing. - Essential in emergency scenarios where speed is critical.

Enhanced Safety Features - Redundant sealing elements to ensure well control. - Fail-safe designs to activate automatically in case of system failure.

Ease of Maintenance - Modular design facilitates easier inspection, repair, and replacement. - Compatibility with standard maintenance procedures in the industry.

Installation and Operation of the Cameron DL Annular BOP

Installation Procedures Proper installation is vital for the BOP's effectiveness. Typical steps include:

1. Preparation: Inspect the BOP for damages or defects before installation.
2. Positioning: Mount the BOP onto the wellhead or blowout preventer stack.
3. Securing: Use appropriate bolts and

gaskets to ensure a leak-proof connection. 4. Testing: Conduct pressure tests to verify integrity before drilling operations commence. Operating Procedures - Closing the BOP: Hydraulic or pneumatic systems are activated to close the annular preventer around the drill pipe or other tools. - Sealing: The elastomeric element expands to seal around the pipe, maintaining well control. - Opening: When required, the BOP is reopened using hydraulic or pneumatic pressure, allowing for pipe movement or other operations. Emergency Use - In case of unexpected well pressure or loss of control, the Cameron DL annular BOP can be activated rapidly to seal the wellbore. - It serves as a primary barrier to prevent blowouts and environmental incidents. Maintenance and Inspection of the Cameron DL Annular BOP Routine Inspection - Visual checks for wear, corrosion, or damage. - Inspection of sealing elements and hydraulic lines. - Pressure testing to verify sealing capability. Scheduled Maintenance - Replacement of elastomeric seals and sealing rings based on manufacturer recommendations. - Cleaning and lubrication of moving parts. - Calibration of hydraulic or pneumatic actuation systems. Troubleshooting Common Issues - Leakage: Often caused by worn seals or debris obstructing sealing surfaces. - Delayed actuation: May result from hydraulic or pneumatic system faults. - Mechanical failure: Requires detailed inspection and possible component replacement. Best Practices - Follow manufacturer guidelines for maintenance intervals. - Use genuine parts for replacements. - Keep detailed records of inspections, repairs, and testing. Safety Considerations and Regulations Compliance Standards - The Cameron DL annular BOP must adhere to industry standards such as API (American Petroleum Institute) specifications. - Regular inspections and certifications are mandatory to ensure operational safety. Training and Procedures - Proper training for personnel on operation and emergency procedures. - Clear protocols for activation and maintenance. Risk Management - Regular risk assessments to identify potential failure

points. - Implementation of safety barriers and backup systems.

Benefits of Choosing Cameron DL Annular BOP - Reliability: Proven design and high-quality materials ensure dependable performance. -

Versatility: Suitable for various well conditions and pipe sizes. -

Safety: Enhanced safety features protect personnel and the environment. - Cost-Effective: Durable construction reduces

downtime and maintenance costs. - Industry Compliance: Meets or exceeds all relevant safety and performance standards. Conclusion

The Cameron DL annular BOP is an indispensable tool in modern drilling operations, providing critical well control functions that

safeguard personnel, equipment, and the environment. Its

innovative design, versatility, and reliable performance make it a preferred choice among oil and gas companies worldwide. Proper

understanding of its features, operational procedures, and

maintenance practices ensures optimal performance and safety

during drilling, completion, and workover activities. As the industry

continues to evolve, the Cameron DL annular BOP remains at the forefront of well control technology, embodying safety, efficiency,

and resilience. If you're interested in learning more about the

Cameron DL annular BOP, its specifications, or procurement options,

consult with authorized Cameron representatives or industry

experts to ensure you select the right equipment for your specific operational needs.

Cameron DL Annular BOP: An In-Depth Analysis of Its Design,

Functionality, and Industry Impact The Cameron DL Annular BOP

stands as a pivotal component within the realm of oil and gas

drilling operations, embodying the confluence of engineering

innovation, safety considerations, and operational efficiency. As

offshore drilling ventures push into deeper waters and more

challenging environments, the demand for reliable blowout

prevention (BOP) systems has never been greater. The Cameron DL

Annular BOP exemplifies this evolution, offering a sophisticated

solution that addresses the complexities of modern drilling. In this comprehensive review, we delve into the technical intricacies of the Cameron DL Annular BOP, explore its design features, operational capabilities, maintenance considerations, and examine its role within the broader context of drilling safety and industry standards.

Understanding the Cameron DL Annular BOP: An Overview

Definition and Purpose

The Cameron DL Annular BOP is a type of blowout preventer designed to seal around drill pipes, tubing, or even a completely open wellbore. The term "annular" refers to its circular sealing element that encircles the drill string, providing a barrier against uncontrolled well releases — a critical safety device in drilling operations. Its primary purpose is to prevent blowouts, control well pressure, and safeguard personnel, equipment, and the environment.

Historical Context and Evolution

Since its inception, the annular BOP has undergone significant technological advancements. Early designs faced limitations in sealing capacity and reliability, prompting industry efforts to improve performance through better materials, hydraulic systems, and structural engineering. Cameron, a leading manufacturer in the field, introduced its DL (Deepwater Lightweight) series to meet the demands of increasingly complex and high-pressure wells. The Cameron DL Annular BOP represents a culmination of these innovations, tailored for the challenging conditions of deepwater drilling.

Design Features and Technical Specifications

Structural Components

The Cameron DL Annular BOP comprises several key components: - Chamber Body: The main housing that contains the sealing elements and hydraulic systems. - Annular Element: The flexible rubber or elastomeric seal that expands to enclose various pipe sizes. - Hydraulic Actuation System: Provides the force necessary to open or close the annular seal, controlled remotely. - Control System: Hydraulic controls, pressure sensors, and safety interlocks that govern operation. - Backup Seals: Redundant sealing mechanisms to enhance reliability during critical operations.

Material Selection and Durability

Materials used in the Cameron DL Annular BOP are chosen for their resilience against high pressures, corrosive environments, and temperature extremes. The elastomeric seals are typically made from advanced compounds like Viton or HNBR, offering excellent chemical resistance and elasticity. The structural components are constructed from high-strength alloy steels, often with corrosion-resistant coatings to extend service life.

Size and Pressure Ratings

The DL series BOPs are available in various sizes to accommodate different drill pipe diameters, ranging from 7 inches to 20 inches or more. Pressure ratings typically reach up to 15,000 psi (pounds per square inch) or higher, aligning with industry standards for

deepwater and ultra-deepwater drilling. The selection of size and pressure class is driven by operational requirements and well conditions.

Operational Capabilities and Advantages

Sealing Performance

One of the standout features of the Cameron DL Annular BOP is its ability to provide a reliable seal around various drill pipe sizes and even open holes. Its flexible elastomeric element adapts to different diameters, ensuring tight seals that can withstand high wellbore pressures. This adaptability reduces the need for multiple BOP stacks or complex switching procedures during drilling operations.

Rapid Closure and Activation

The hydraulic actuation system allows for swift deployment in emergency scenarios. The Cameron DL BOP can be activated remotely via control panels, ensuring minimal delay in critical situations. Rapid closure capabilities are essential for containing blowouts and preventing escalation of well control incidents.

Compatibility with Modern Drilling Techniques

The BOP's design aligns with contemporary drilling practices, including managed pressure drilling (MPD), deepwater drilling, and horizontal well completions. Its modular construction permits integration with other well control equipment, enhancing

operational flexibility.

Operational Safety and Reliability

Industry data indicates that annular BOPs like the Cameron DL series have high reliability rates, owing to their robust design and redundant safety features. The inclusion of backup seals and advanced control systems mitigates risks associated with seal failure or hydraulic malfunction.

Installation, Maintenance, and Operational Best Practices

Installation Procedures

Proper installation of the Cameron DL Annular BOP is critical to ensure optimal performance. This involves:

- Precise alignment with the wellhead and blowout preventer stack.
- Hydraulic and control system connection checks.
- Pressure testing to verify integrity before drilling commences.
- Ensuring compatibility with existing well control equipment.

Maintenance and Inspection

Routine maintenance is vital for longevity and safety:

- Regular Inspection: Visual and functional checks of seals, hydraulic lines, and control systems.
- Hydraulic System Servicing: Ensuring hydraulic fluid cleanliness and pressure calibration.
- Seal Replacement: Elastomeric seals are subject to wear; scheduled replacement prevents failures.
- Pressure Testing: Periodic testing of sealing capacity under simulated conditions.

Operational Best Practices Operators should adhere to industry standards and manufacturer guidelines: -

Conduct thorough training for operating personnel. - Implement real-time monitoring of hydraulic pressure and system performance. - Maintain detailed logs of inspections, maintenance, and operational events. - Prepare contingency plans for BOP failure scenarios.

Challenges and Limitations of the Cameron DL Annular BOP

Seal Wear and Elastomer Degradation

Elastomeric seals are susceptible to degradation from exposure to chemicals, high temperatures, and repeated cycling. This can lead to

leaks or failure in sealing capacity, necessitating proactive maintenance.

Hydraulic System Complexity

The sophisticated hydraulic and control systems require meticulous calibration and maintenance.

Hydraulic failure can compromise BOP function, emphasizing the need for redundancy and robust design.

Cost Considerations

High-performance BOPs like the Cameron DL series entail significant capital and operational costs.

Budgeting for maintenance, spare parts, and trained personnel is essential for sustained reliability.

Industry Standards and

Regulatory Compliance

The Cameron DL Annular BOP aligns with key industry standards such as: - API 16A: Specification for Blowout Preventers. - ISO 10423: Oil and Gas Equipment—Well Control Equipment. - OSHA Regulations: Occupational Safety and Health Administration guidelines for well control. Compliance ensures that the equipment meets safety, performance, and environmental protection criteria, which is vital for licensing and operational approval.

Impact on Industry and Future Trends

Enhancing Well Control Safety

The Cameron DL Annular BOP has contributed to improved safety margins in complex drilling environments. Its reliable sealing and rapid response capabilities are instrumental in preventing catastrophic blowouts.

Technological Innovations and Developments

Ongoing research focuses on:

- Smart BOPs: Integration of sensors and IoT technology for real-time condition monitoring.**
- Material Advances: Development of more durable elastomers resistant to harsh environments.**
- Automation: Increasing automation to reduce human error and improve response times.**

Environmental Considerations

With growing emphasis on environmental safety, BOP designs are increasingly geared toward minimizing spill risks and facilitating quicker containment. Innovations like self-healing seals and enhanced backup systems are on the horizon.

Conclusion: The Significance of the Cameron DL Annular BOP in Modern Drilling

The Cameron DL Annular BOP exemplifies the pinnacle of engineering excellence in well control equipment. Its advanced design, robust materials, and operational efficiency make it an indispensable tool in safeguarding drilling

operations, especially in the challenging environments of deepwater and ultra-deepwater wells. While challenges remain—such as maintaining elastomer integrity and managing hydraulic systems—the ongoing evolution of BOP technology continues to push industry standards toward safer, more reliable, and environmentally conscious drilling practices. As offshore exploration and production expand into increasingly complex terrains, the role of sophisticated equipment like the Cameron DL Annular BOP will only grow in importance. Ensuring its optimal performance through diligent maintenance, adherence to safety standards, and embracing technological innovations will be key

to navigating the future of energy extraction safely and sustainably.

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Understanding develops gradually, shaped by repetition rather than pressure.

The reliability of PDF format reinforces this experience. Layout, diagrams, and references remain intact across devices. Readers encounter the same structure each time, allowing ideas to feel familiar and easier to navigate. This stability is particularly valuable for academic, instructional, and reference-based content.

Interaction further deepens involvement. Highlighting key passages or writing marginal notes

turns reading into an active process. Over time, the book reflects the reader's evolving understanding, capturing insights that may not surface during a single reading.

Search functionality adds practical value. Readers do not need to rely on memory alone. Important sections can be located instantly, making the book useful both for study and quick consultation. This efficiency encourages repeated use rather than one-time consumption.

Legitimate platforms play a vital role in maintaining quality and trust. Libraries, open-access repositories, and academic institutions provide carefully curated collections. By relying on these sources, readers

ensure accuracy while supporting responsible distribution.

Affordability expands opportunity. When financial barriers are reduced, exploration increases. Readers are more willing to engage with unfamiliar subjects, discover new perspectives, and broaden their intellectual range without hesitation.

For students, this access supports consistent learning habits. Materials remain available beyond classroom hours, allowing concepts to be reinforced at a comfortable pace. Notes and highlights stay organized, helping structure revision and review.

Professionals use downloadable books differently. They approach them as

tools rather than assignments. Sections are consulted as needed, insights applied directly, and references revisited when challenges arise. Learning integrates naturally into work routines.

Personal development also benefits. Reading becomes less about completion and more about reflection. Ideas are allowed to linger, connect, and mature. Over time, this leads to a deeper relationship with the subject matter.

Accessibility features quietly increase inclusivity. Adjustable display options and reading assistance tools ensure that more people can engage comfortably. Knowledge becomes easier to approach without drawing

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Organization supports continuity. A personal library grows alongside interests, preserving progress and context. Returning to a familiar book feels seamless, even after long breaks.

There is also a shift in mindset. When access is consistent, learning feels less urgent and more intentional. Readers engage because they want to, not because they must.

Global availability further enriches the experience. People from different backgrounds interact with the same material, bringing diverse interpretations and insights. This shared access strengthens the collective value of knowledge.

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Downloading *Cameron DI Annular Bop* supports this evolving relationship. It respects how people learn, adapt, and revisit ideas. The book remains present without demanding attention, ready whenever curiosity returns.

What develops is not just familiarity with content, but confidence in learning itself. The reader knows that understanding can grow gradually, shaped by patience and repeated engagement.

**And in that steady rhythm—open,
pause, return—knowledge finds its
place naturally.**

Questions & Answers About cameron dl annular bop

N o	Question	Answer
1	What is the Cameron DL Annular BOP and how does it function?	The Cameron DL Annular BOP is a type of Blowout Preventer designed to seal the annular space around drill pipes and casings, preventing uncontrolled releases during drilling operations. It functions by using an annular elastomeric seal that can accommodate various pipe sizes and is activated hydraulically to close off the wellbore.
2	What are the main advantages of using the Cameron DL Annular BOP in drilling operations?	The Cameron DL Annular BOP offers versatile sealing capabilities for different pipe sizes, reliable performance under high pressure conditions, and quick activation in emergency situations. Its design reduces the risk of blowouts and enhances safety during complex drilling processes.

3	How does the Cameron DL Annular BOP compare to other types of BOPs?	Compared to ram-type BOPs, the Cameron DL Annular BOP provides a more flexible sealing solution for various pipe sizes and can be activated more quickly in certain scenarios. However, ram BOPs are often preferred for their more robust sealing of larger or more critical wellbore sections.
4	What are common maintenance practices for the Cameron DL Annular BOP?	Regular inspection of seals and elastomers, testing hydraulic systems, checking for wear and corrosion, and ensuring proper lubrication are essential maintenance practices. Proper maintenance ensures reliable performance and safety during drilling operations.
5	What are typical applications of the Cameron DL Annular BOP?	The Cameron DL Annular BOP is commonly used in offshore and onshore drilling rigs, well control operations, and situations requiring quick sealing of wellbores with varying pipe sizes, especially in complex or high-pressure wells.
6	What safety features are incorporated into the Cameron DL Annular BOP?	It includes redundant sealing elements, hydraulic activation systems for rapid response, pressure sensors for monitoring, and emergency release capabilities to ensure safety during unexpected well conditions.
7	Are there any recent innovations or upgrades in the Cameron DL Annular BOP model?	Recent innovations include enhanced elastomer materials for better durability, improved hydraulic actuation systems for faster response times, and advanced monitoring sensors for real-time performance tracking, all aimed at increasing safety and reliability.

Cameron DL Annular BOP, drill stem equipment, blowout prevention, drilling equipment, oilfield BOP, Cameron BOP components, annular blowout preventer, well control equipment, drilling safety

equipment, Cameron oilfield tools

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to spread knowledge, encourage learning, and build communities around shared interests. However, responsible and legal sharing is essential to respect copyright laws and support the authors and publishers who create valuable content. Understanding what can and cannot be shared helps prevent legal issues and ensures ethical use of digital materials.

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For copyrighted or paid editions of *Cameron DI Annular Bop*, direct file sharing is usually prohibited. Instead of sending copies, it is best to share official purchase links, publisher pages, or authorized platforms where others can obtain the book legally. Recommending a book through legitimate channels supports content creators and ensures that readers receive accurate and complete versions.

Many eBook platforms provide built-in sharing features that allow limited access, previews, or recommendations without violating copyright. Some services even support temporary lending or family sharing within defined rules. Always review the platform's terms of use before sharing any content related to *Cameron DI Annular Bop*.

Ethical considerations when sharing

Beyond legal requirements, ethical considerations play an important role. Sharing unauthorized copies can harm authors and publishers by reducing potential income and discouraging future content creation. Supporting legal distribution ensures that high-quality

Cameron DI Annular Bop materials continue to be produced and updated. Ethical sharing builds trust and sustainability within reading and learning communities.

Finding Reviews

Reading reviews is one of the most effective ways to choose the best edition of Cameron DI Annular Bop. With many versions, formats, and publishers available, reviews help readers avoid low-quality or poorly formatted editions and focus on content that meets their expectations.

Online bookstores often feature customer reviews and ratings that provide insights into readability, formatting quality, and overall satisfaction. Paying attention to detailed reviews can reveal common issues such as missing pages, poor editing, or compatibility problems with certain devices. Reviews that mention specific strengths or weaknesses are especially useful when selecting a digital version of Cameron DI Annular Bop.

Community-driven platforms such as Goodreads, Reddit, and specialized forums offer additional perspectives. These communities allow readers to discuss content in depth, compare editions, and share personal experiences. Recommendations from experienced readers or subject-matter enthusiasts can be particularly valuable when choosing educational or technical Cameron DI Annular Bop materials.

Professional reviews from blogs, academic journals, or reputable websites can also provide objective evaluations. These reviews often focus on content accuracy, relevance, and usefulness, making them helpful for students and professionals who rely on reliable information.

Evaluating review credibility

Not all reviews carry the same level of reliability. When reading reviews, consider the reviewer's background, level of detail, and consistency with other feedback. Multiple reviews highlighting similar strengths or weaknesses usually indicate a genuine pattern. Avoid relying solely on extreme opinions and instead look for balanced assessments that discuss both pros and cons of the Cameron DI Annular Bop edition.

Using Audiobooks

Audiobooks offer an alternative way to experience Cameron DI Annular Bop content and are increasingly popular among modern readers. Instead of reading text, users listen to narrated versions, allowing them to engage with content while performing other tasks. Audiobooks are especially useful during commuting, exercising, or completing routine activities.

Platforms such as Audible, Google Audiobooks, Apple Books, and Scribd offer professionally narrated audiobooks of many Cameron DI Annular Bop titles. These versions often feature high-quality narration, clear pronunciation, and structured pacing that enhances understanding. Some audiobooks also include chapter navigation, bookmarks, and playback speed controls for added convenience.

For public domain works, platforms like LibriVox provide free audiobooks narrated by volunteers. While narration quality may vary, LibriVox remains a valuable resource for accessing classic or open-access versions of Cameron DI Annular Bop without cost. Listening to samples before committing to a full audiobook can help ensure a comfortable listening experience.

Audiobooks are particularly beneficial for auditory learners or individuals with visual impairments. They also help reduce screen

time, making them a healthy alternative for extended content consumption. However, audiobooks may not be ideal for detailed study that requires frequent referencing, highlighting, or visual analysis.

Combining audiobooks with text

Many readers find value in combining audiobooks with digital or printed text. Listening while following along in the text can improve comprehension and retention. Others use audiobooks for initial exposure and then refer to the text version of Cameron DI Annular Bop for deeper study. This multi-format approach maximizes flexibility and learning efficiency.

Tracking Progress

Tracking reading progress is a powerful way to stay motivated and organized when engaging with Cameron DI Annular Bop. Monitoring progress helps readers set goals, manage time effectively, and reflect on what they have learned. Whether reading for leisure, study, or professional development, tracking tools enhance accountability and consistency.

Apps such as Goodreads, StoryGraph, and LibraryThing allow users to log books, track reading status, write reviews, and set annual or monthly reading goals. These platforms also offer personalized recommendations based on reading history, making it easier to discover related Cameron DI Annular Bop materials.

For readers who prefer a more customized approach, spreadsheets or note-taking apps can serve as effective tracking tools. Creating a simple reading log that includes dates, chapters completed, key notes, and personal reflections helps organize learning and maintain focus. Digital notes can be linked directly to highlighted sections within Cameron DI Annular Bop for easy reference.

Using tracking for study and research

For academic or professional purposes, tracking progress goes beyond simple completion. Recording insights, questions, and references while reading Cameron DI Annular Bop creates a structured knowledge base that can be revisited later. This approach supports deeper understanding and improves long-term retention of information.

Tracking tools also help identify patterns in reading habits, such as preferred formats or optimal reading times. Understanding these patterns allows readers to adjust their routines for better productivity and enjoyment.

Community engagement and motivation

Sharing progress within reading communities can increase motivation and accountability. Many platforms allow users to join reading challenges, discussion groups, or book clubs centered around specific topics or genres. Engaging with others who are also reading Cameron DI Annular Bop fosters discussion, insight exchange, and a sense of shared purpose.

However, sharing progress should always respect privacy preferences. Users can choose what information to make public and what to keep personal. Balanced participation ensures that tracking remains a supportive tool rather than a source of pressure.

Final thoughts on sharing and managing Cameron DI Annular Bop

Responsible sharing, informed selection, and effective tracking are key aspects of enjoying Cameron DI Annular Bop in the digital age. By respecting copyright, relying on trusted reviews, exploring audiobooks, and monitoring reading progress, readers can create a well-rounded and ethical reading experience. These practices not

only enhance personal understanding but also contribute to a sustainable and supportive reading ecosystem built around high-quality Cameron DI Annular Bop content.