

IPV3 – Type ‘C’ Economy Isolation Valve

Tredwell



Key Benefits:

- Bidirectional barrier allowing operators to
 - Set production Packer
 - Test Tubing
 - Perform BOP/XMT operations
 - Open to give full bore ID.
 - Without intervention
- 100% Successful track record
- Proven track record of saving operators rig time and money
- No Offshore Personnel required
- Various Remote Open options available
- Patented Equalization feature
- No debris or glass particles introduced to well as part of the opening mechanism
- Debris Tolerance qualified
- Gas tight zero-bubble validation.

Overview:

Continuing the outstanding reliability and success of IPV1, the Precision Oiltools IPV3 has proven it can provide a bi-directional completion isolation barrier capability using the IPV1 platform. Utilizing field proven sealing and patented equalizing barrier valve technology whilst also incorporating the unique robust shear open reliability found in the IPV1 the IPV3 assures trouble-free intervention-less completion deployment.

As with the IPV1 the IPV3 does not require specialist offshore personnel for deployment whereby the barrier configuration is set to Operator specifications onshore. Should conditions dictate however, the barrier valve configuration may optionally be adjusted offshore if operations change prior to RIH.

The IPV3 is deployed in the closed position providing a barrier for Packer Setting and Tubing Testing as well providing an in-flow completion barrier, to perform surface operations if desired.

The IPV3 can be configured with a Counter Mechanism which enables multiple full working pressure cycles to be performed without opening the Ball. The IPV3 can also be configured with calibrated single activation shear open screws that can be adjusted in quantity at the rig floor to react to any change in well hydraulics or packer setting pressures.

The IPV3 also has a patented equalisation feature which dissipates any pressure acting on the ball on opening for more reliable activation and increased debris tolerance.

The IPV3 has a mechanical contingency open ability which is activated when a Shifting Tool is deployed should the ball not open hydraulically.

Upon opening, the IPV3 will provide the completion with Full Bore ID for any future well intervention that may be required.

Like all Precision Oiltools IPV barrier valves IPV3 has been stringently qualified to API 19V / ISO 28781 with additional rigorous debris tolerance testing. The IPV3 qualification also includes the zero-bubble validation from below per Annex F or more industry recognized as having a ‘V0’ rating from below.



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Specification Matrix

OD	ID	Maximum Pressure Rating	Threads size range ²
4.50"	2.28"	5,000 psi 10,000 psi ¹	2 7/8" – 3 1/2"
5.75"	3.00"	5,000 psi 10,000 psi ¹	3 1/2" – 4 1/2"
8.00"	4.50"	5,000 psi	5 1/2" – 7 5/8"
8.375"	4.50"	10,000 psi	5 1/2" – 7 5/8"

Notes

1. Increased pressure rating achieved by changing the metallurgy to higher strength materials.
2. Client to select premium end connections to suit tubing string.
3. Maximum temperature of up to 150°C (300°F) available.
4. Higher temperatures on request (Elastomer change).
5. If application requirement is not mentioned above, please contact Precision Oiltools.

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