

Equalising Valve

The Equalising Valve is an electronically actuated valve that allows plugged wells to be equalised or brought onto production without the need for intervention.

The Equalising Valve has successfully delivered a zero bubble, gas tight seal using the rigorous requirements set down by the ISO standard ISO 14310.

The field-proven onboard electronics do not need to be connected to surface as the valve is functioned with a 'Command' remote activation signal. The valve is programmed to recognise a unique pressure signature before activating and equalisation.

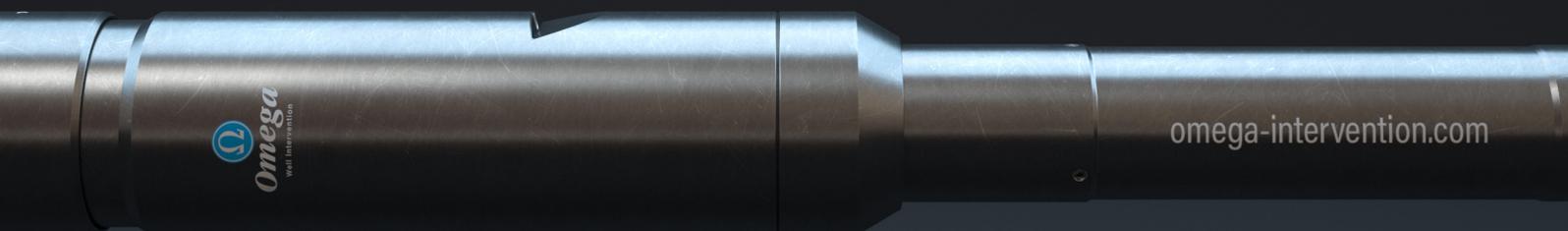
A laptop computer allows the 'pressure pattern' to be easily programmed at the wellsite as needed. The valve can be installed below any lock or plug and can be used as a shallow or deep set barrier.

Equalising Valve

| Tool Size | 2.60" Nom | 3.60" Nom | 4.00" Nom |
|--------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Upper Connection | To suit Omega 5" or smaller Retrieval Bridge Plug (Can be adapted for use with other locks or plugs) | To suit Omega 5-1/2" or larger Retrieval Bridge Plug (Can be adapted for use with other locks or plugs) | To suit Omega 5-1/2" or larger Retrieval Bridge Plug (Can be adapted for use with other locks or plugs) |
| Lower Connection | As required by client | As required by client | As required by client |
| Material | Available in any material to suit well conditions | Available in any material to suit well conditions | Available in any material to suit well conditions |
| OD | 2.560" max | 3.600" max | 3.937" max |
| Tool Weight | 25 Kg | 60 Kg | 61 Kg |
| Flow Area | 1.07 in ² | 3.14 in ² | 3.14 in ² |
| Length | Approx 52" | Approx 43" | Approx 43" |
| Tensile Rating | Min 41,000 lbs (with 80 Kpsi yield material) | Min 80,000 lbs (with 80 Kpsi yield material) | Min 80,000 lbs (with 80 Kpsi yield material) |
| Pressure Rating | Max 10,000 psi (with 80 Kpsi yield material) | Max 10,000 psi (with 80 Kpsi yield material) | Max 11,600 psi (with 80 Kpsi yield material) |
| Temperature Rating | 1°C to 150°C | 1°C to 150°C | -1°C to 150°C |
| Test Criteria | TBT | ISO 14310 V0* | ISO 14310 V0* |

* This product has been successfully tested in accordance with the requirements of ISO 14310 Validation Grade V0, under the following conditions.

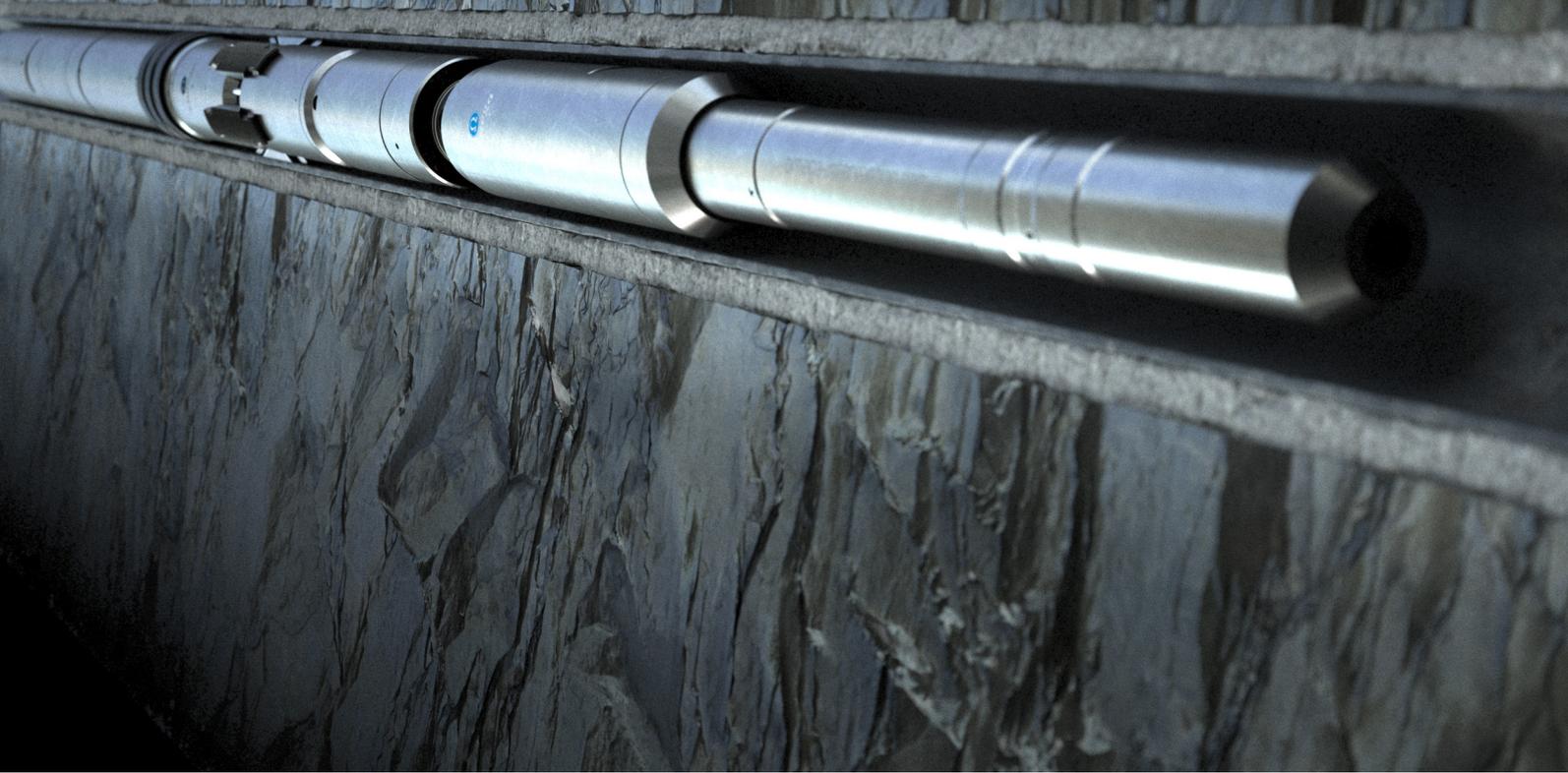
1. Pressure of 11,600 psi & a temperature range of -1°C to 55°C.
2. Pressure of 10,000 psi & a temperature range of 4°C to 130°C.



Features - Applications - Benefits

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Equalising Valve



FEATURES

- Field proven electronics with over 100 installations with a 100% activation success.
- Qualified in accordance with ISO14310 V0 testing requirements.
- Large flow ports for maximum flow bypass.
- Compatible with any locks or plugs.
- Debris Catcher to prevent the tool being damaged from well debris.

APPLICATIONS

- Shallow set barrier for tree testing, maintenance and change outs.
- Deep set barrier for packer setting and tubing testing.
- Rapid resumption of production without the need for intervention access.
- Barrier for Work Overs.
- Reducing slickline runs in retrieving plug assembly

BENEFITS

- Reduces intervention costs.
- Reduces rig costs.
- Reduces safety hazard to intervention crews.
- Controlled equalisation by the need for a specific pressure signal.
- No risk during under balance equalisation.

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