



Water Injection Valve

Although the Omega Water Injection Valve is typically used in water injectors, it is also ideal for use where oil producers are being converted to injectors due to failed safety valves.

The Injection Valve acts as a fluid barrier and in certain scenarios it can prevent the ingress of sand to the well when injection is stopped. The valve is unique within the market place, incorporating a hydraulic dampening system to deal with flow-induced vibration. The dampening system also allows the valve to 'soft-close' preventing any damage to the seal faces when injection ceases.

Anti-rotation locking rings secure each of the threaded connections within the tool ensuring there is no potential for back-out during flowing conditions.

The Injection Valve is spring-biased into the closed position and opens when injection fluid is pumped down the tubing. The large annular flow ports maximise available flow area through the valve whilst minimising the pressure drop across it.

When pumping is stopped the spring forces the plunger upward to seat on the seal face, preventing any fluid from below the valve flowing back into the tubing above.

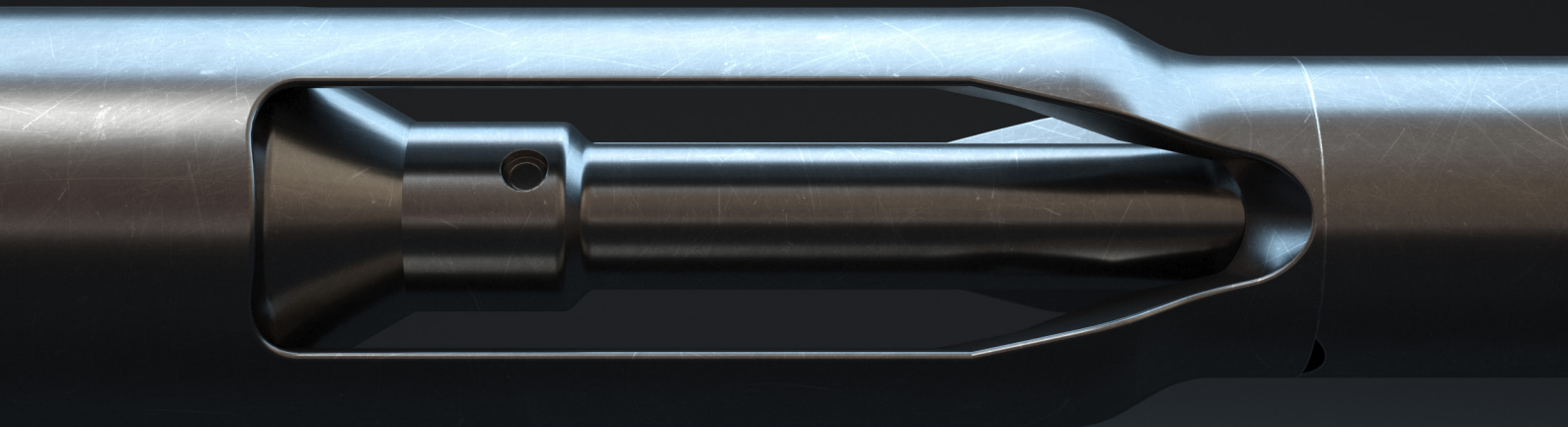
Technical Specifications

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Water Injection Valve

Valve Size	3.60"	5.50"
Max Flow Area	5.52 in ²	11.50 in ²
Material	Full range of materials available.	Full range of materials available.
Pressure Rating	5,000 psi	5,000 psi

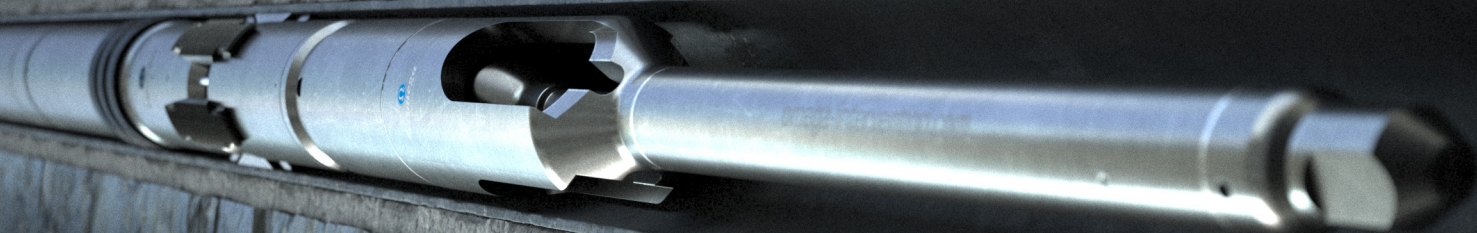
Other sizes and materials available on request.



Features - Applications - Benefits

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Water Injection Valve



FEATURES

- Hydraulic dampening system to prevent unwanted vibration.
- Soft closure feature to extend plunger seal life.
- Debris tolerant seal system.
- Anti-rotation connections.
- Large annular flow ports.
- Metal To Metal Seal increases durability.

APPLICATIONS

- Deep set barrier in injection wells.
- Can be installed below plugging devices.

BENEFITS

- Longer operating life.
- Reduced redress costs
- Provides high injection rates with low pressure drops.

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