

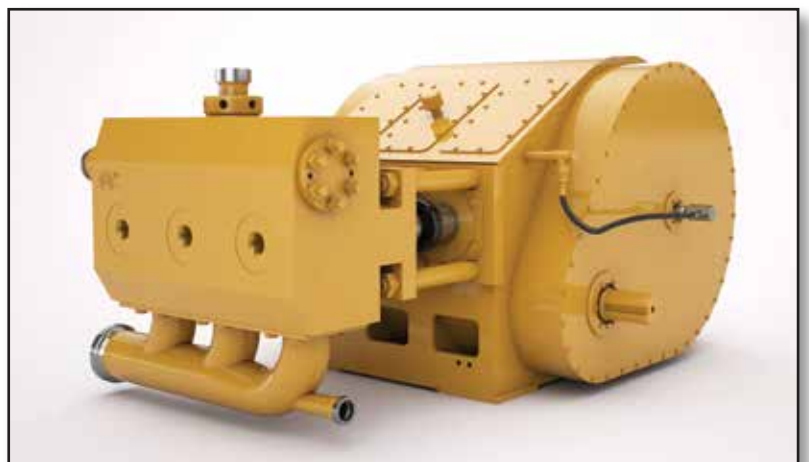
# Cat<sup>®</sup> Valves and Seats

For Well Stimulation Pump Fluid Ends



## Supporting your success

Fluid end valves and seats are highly consumed parts in a well stimulation operation and as a result, replacement of these components occurs frequently. Historically, Caterpillar utilized valves and seats obtained from alternate sources. But after a substantial amount of research and development goals focused on decreased wear and extended life, Caterpillar is pleased to announce the release of our own fluid end valves and seats.



## Increased life through advanced design

Cat® Valves and Seats work as a system to sustain extended periods of operation between valve and seat exchanges when compared with other valve and seat offerings. Consequently, Cat Valves and Seats help you achieve lower owning and operating cost, higher productivity and ultimately, higher profitability.

**Reduced impact forces.** The contact area between valve and seat has nearly doubled from designs utilized in the past. This optimized geometry reduces the pressure—and material fatigue—at any given point.

**Increased flow area.** Pressure drop is balanced across the valve, reducing flow restrictions. Increased flow area and velocity also reduces the potential for cavitation.

**Directed flow.** As Cat valves close, fluid moves smoothly toward the discharge valve, reducing premature washout.

**Less maintenance.** Field testing indicates Cat one-piece valves with injected inserts offer three to four times the service life of standard designs.

**Supported globally.** 4-series and 5-series valves are available and Cat dealers offer technical expertise, service and sales in every time zone.

Your Cat dealer provides a full range of Cat parts for well stimulation pumps.

Fluid Ends  
Stay rod kits  
Packing kits  
Valves and seats  
Plungers  
Flanges  
Seals  
Suction and discharge covers  
Retainer nuts

See your Cat authorized service location for specific part numbers.

Standard Caterpillar warranty is supported worldwide.

## DEFINING WORLD-CLASS PRODUCT SUPPORT.

Cat dealers have the right parts and service solutions when and where you need them. Their highly trained experts will work with you to maximize your equipment investment.

## BUILT FOR IT.™

