



# TOPGUARD

## KELLY VALVE

**SERVICE CLASS 2 RATED**  
**API Spec 7-1, 2006**

*The NEW GENERATION of Drillstring Safety Valves*



# Improve **SAFETY** on your Rigs

## – the new TOPGUARD Kelly Valve



### New Generation of Kelly Valve

The TOPGUARD Drillstring Safety Valve (DSSV) has been designed to improve Safety and Environmental protection on Onshore and Offshore Drilling Rigs.

The TOPGUARD has passed successfully a Design Verification Tests as described in API Spec. 7, 40th Edition, March 2002. It fulfills and exceeds the requirements for the API Service Class 2 (Surface and Downhole Service).

The test procedures and results have been published SPE/IADC paper 39320.

### Multiple Service

Designed as manual and remote operated Topdrive valve as well as upper and lower Kelly cock

### Low Torque Design

For opening under differential pressure up to 2000 psi and closing under high flow rate

### Longlife

Due to metal-to-metal sealing with special hardfacing on ball and seatrings

### Gastight

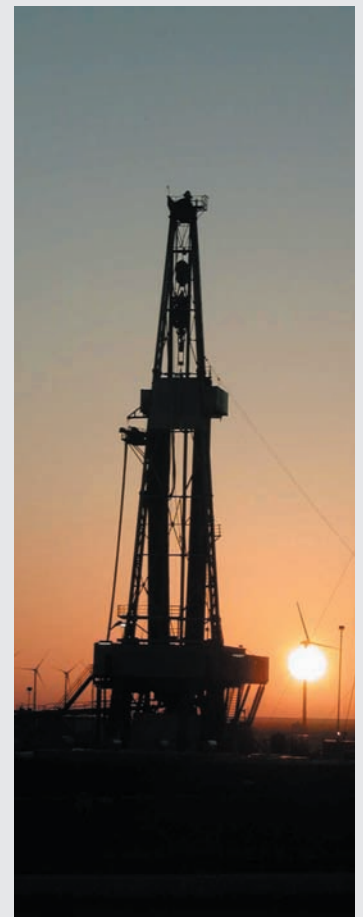
Under internal *and* external pressure

### Bi-Directional Sealing

Under full working pressure from below or above

### Improved Load Capacity

Verified by Finite Elements Analysis





## Pressure Rating

Up to 20.000 psi

## Size Range

ID 1 ¾ INCH – 4 INCH

OD 4 ¾ INCH – 12 INCH

## Connections

Rotary shouldered connections such as NC, REG, IF & FH or others on request

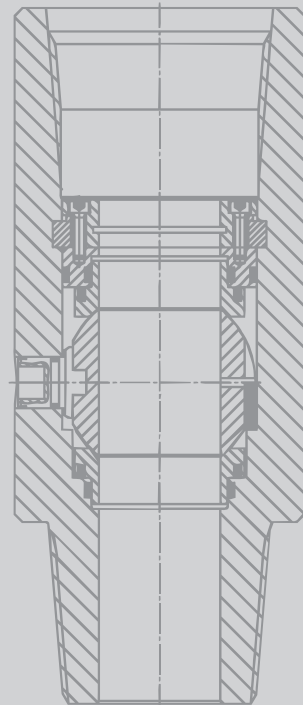
## Special Applications

are available on customers request

## Scope of Delivery

Each TOPGUARD Kelly Valve is shipped in a box with:

- thread protectors
- hexagon wrench
- certificates



6D-0053  
6A-0076  
7-1-0046



## Company Profile

ITAG Valves and Oilfield Products GmbH (IVOP) is a company division of the privately owned Hermann von Rautenkranz Internationale Tiefbohr GmbH & Co. KG – ITAG.

ITAG was founded in 1912 and is involved in drilling for oil and gas, gas & oil concessions, specialist machining and product design and manufacturing, predominantly for the oil and gas industry.

IVOP, ITAG's valves and oilfield products division, is home of the rapidly developing wellhead division, and offers a complete range of pipeline ball valves as well as other oilfield related equipment.

IVOP's quality management system complies to the following certification: ISO 9001 - API Q1 - European Pressure Equipment Directive 97/23/EC. IVOP is official licensee of the API Monogram Program for API Specs 6A, 6D and 7-1.

## Production Facilities

ITAG Valves & Oilfield Products runs a manufacturing plant in Germany with CNC machines, weld shop and equipment according to the latest state of the art.

Special purpose machines are capable of processing heavy parts over 20 tons, on fixed tables and rotating tables, for vertical bores and for horizontal bores.

Test benches enable pressure testing of sizes up to 60 in. bore diameter, pressure range is available up to 4000 bar.



ITAG site in Celle.  
Celle was the „Home of Drilling in Europe“ since the first successfully drilled oil well was completed in 1858.



ITAG Rig 30,  
A New Concept for a  
Drilling & Workover Rig

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