

## Kelly Valves Type BTG “Topguard”

The new generation of ITAG kelly valves is designed in accordance with API Specification 7-1 Service Class 2 (surface and downhole service) and will be manufactured and tested under the conditions of an ISO 9001 QM system.

ITAG Kelly valves type BTG are optimized for remotely operated services, but can also be used as manually operated kelly valves.

Kelly valves type BTG are available with ABS design assessment certificate (ABS CDS Guide) and DNV type approval certificate (DNV-OS-E101).

### Design Features

- one-piece body
- designed as per API specification 7-1 Service Class 2
- mounting direction „pin up“ or „pin down“
- pure metal seated with special hard-facing on ball and seat rings
- low torque design allows smooth opening under differential pressure and closing under high flow rates
- bi-directional sealing under full working pressure from below and above
- improved load capacity verified by finite element analysis

### Options

- H<sub>2</sub>S trim
- H<sub>2</sub>S service
- gas-tight sealing
- locking device
- connection break-in

### Materials

body	AISI 4145 mod. or AISI 4330V (depending on pressure rating)
seat rings, ball, stem	ASTM A 705 Grade 630 (17-4PH) with hard-facing
O-rings	FKM



**Pressure Ratings**

- 10.000, 15.000 or 20.000 psi

**Size Range**

inner diameter	1¾ to 4¾ inch
outer diameter	4¾ to 12 inch

**Connections**

- rotary shouldered connections such as NC, REG, IF or FH
- other connections on request

**Scope of Supply**

- kelly valve with thread protectors
- shipping in a box together with hexagon wrench and certificates