

## Kelly Valves Type BTG-QC „Quad Crank“

ITAG kelly valves type BTG-QC are equipped with two closure members (balls) which can be operated independently of each other and each have two cranks.

They are designed in accordance with API Specification 7-1 Service Class 2 (surface and downhole service) and are manufactured and tested under the conditions of an ISO 9001 QM system.

ITAG kelly valves type BTG-QC are optimized for remotely operated topdrive service, but can also be used as manually operated kelly valves.

Kelly valves type BTG-QC are also 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
- two closure members (balls) with two cranks each
- mounting direction „pin up“ or „pin down“
- pure metal seated with special hard-facing on balls 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