

## GATE VALVES

# EXPANDING GATE

## SUBSEA

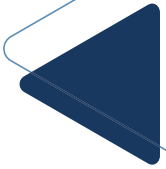
**PetrolValves has an extremely large record of previous qualifications successfully performed:**

- PR2 Design Validation Test according to API 6A / ISO 10423 Annex F
- Endurance Test According to API 17D
- Sand slurry test according to API 6A/ISO 10423 ANNEX I Class II
- Sand slurry test according to API 6AV1
- Hyperbaric Test according to API 17D Annex L or API 6DSS Annex
- A number of customized qualification Procedures

### ▶ API 6DSS Design Standard

Bonnet Design	Bolted Bonnet	Pressure Seal
Seat type	Metal seated	
Material Selection	LTCS or Low Alloy Steel + CRA Cladding Duplex, Super Duplex, Ni Alloy Forged TCC or CCC, Stellite Hardfacing PTFE / RPTFE Insert	LTCS or Low Alloy Steel + CRA Cladding Duplex, Super Duplex, Ni Alloy Forged TCC or CCC, Stellite Hardfacing PTFE / RPTFE Insert
Seals / Gaskets	Elastomers Thermoplastics / Metallic	Elastomers Thermoplastics / Metallic
Design features	Full/Reduced Bore Bidirectional/Unidirectional Anti Blowout Stem	Full/Reduced Bore Bidirectional/Unidirectional Anti Blowout Stem
Special features	NACE Requirement Special bore By-pass Live loaded packing	NACE Requirement Special bore By-pass Live loaded packing
End connection	Flanged (RF / RTJ, compact, studed) Buttwelded ends Hub	Flanged (RF / RTJ, compact, studed) Buttwelded ends Hub
Operators	ROV operated gear Hydraulic actuator + ROV Override Electric multiturn	ROV operated gear Hydraulic actuator + ROV Override Electric multiturn
Product Range	#150 to #600 - 2" to 64" #900 - 2" to 54" #1500 - 2" to 48" #2500 - 2" to 30"	#150 to #600 - 2" to 64" #900 - 2" to 54" #1500 - 2" to 48" #2500 - 2" to 30"





**▶ API 17D / 6A Design Standard**

Bonnet Design	Bolted Bonnet	Pressure Seal
Seat type	Metal seated	
Material Selection	LTCS or Low Alloy Steel + CRA Cladding Duplex, Super Duplex, Ni Alloy Forged TCC or CCC, Stellite Hardfacing PTFE / RPTFE Insert	LTCS or Low Alloy Steel + CRA Cladding Duplex, Super Duplex, Ni Alloy Forged TCC or CCC, Stellite Hardfacing PTFE / RPTFE Insert
Seals / Gaskets	Elastomers Thermoplastics / Metallic	Elastomers Thermoplastics / Metallic
Design features	Full/Reduced Bore Bidirectional/Unidirectional	Full/Reduced Bore Bidirectional/Unidirectional
Special features	NACE Requirement Special bore By-pass Live loaded packing	NACE Requirement Special bore By-pass Live loaded packing
End connection	Flanged (RF / RTJ, compact, studed) Buttwelded ends Hub	Flanged (RF / RTJ, compact, studed) Buttwelded ends Hub
Operators	ROV operated gear Hydraulic actuator + ROV Override Electric multiturn	ROV operated gear Hydraulic actuator + ROV Override Electric multiturn
Product Range	3k to 5k - 1 <sup>3</sup> / <sub>16</sub> " to 34" 10k - 1 <sup>3</sup> / <sub>16</sub> " to 16" 15k - 1 <sup>3</sup> / <sub>16</sub> " to 10"	3k to 5k - 1 <sup>3</sup> / <sub>16</sub> " to 34" 10k - 1 <sup>3</sup> / <sub>16</sub> " to 16" 15k - 1 <sup>3</sup> / <sub>16</sub> " to 10"

