

API 6A Gate Valve – Hydro Model DWS (Drilling and Well Services)

Hydro has been serving the Oil & Gas industry since 1969, offering a wide range of Equipment, Aftermarket Service and Field Support.

Our manufacturing and service facilities in the Middle East have been licensed with API Q1, API 6A, 16A, 16C, 5CT and 7-1 licenses, supporting the Exploration, Drilling and Well Service industries in the region.

Hydro Middle East - DWS Series API 6A gate valves are widely used in Choke and Kill Manifolds, Well Testing Manifolds, Wellheads, Tree assemblies, and other Flow Control Equipment. Our valves are engineered to perform on heavily exposed Hydrocarbon and Abrasive environment through a wide range of temperature.

Valve Specifications



Certification	API 6A & API 16C Latest Edition
Size	2-1/16" to 7-1/16"
Actuators	Hydraulic & Pneumatic
Pressure Rating	2,000 PSI To 15,000 PSI
Material Class	General Service AA, BB, CC & Sour Service DD, EE, FF, HH
Temperature Class	K through X (-75°F to +350°F)
PSL	1, 2, 3, 3+G (Gas testing)
PR	PR1, PR2
Connection Type	Flanged, Studded & Threaded

Trim Chart

Material Class		Body, Bonnet, End and Outlet Connectors	Valve Bore Sealing Mechanisms and Stems
AA	General service	Carbon or low-alloy steel, or stainless steel or CRA ^d	Carbon or low-alloy steel, or stainless steel or CRA ^d
BB	General service	Carbon or low-alloy steel, or stainless steel or CRA ^d	Stainless steel or CRA ^d
CC	General service	Stainless steel or CRA ^d	Stainless steel or CRA ^d
DD	Sour service ^a	Carbon or low-alloy steel or CRA ^{b,d}	Carbon or low-alloy steel or stainless steel or CRA ^{b,d}
EE	Sour service ^a	Carbon or low-alloy steel or CRA ^{b,d}	Stainless steel or CRA ^{b,d}
FF	Sour service ^a	Stainless steel or CRA ^{b,d}	Stainless steel or CRA ^{b,d}
HH	Sour service ^a	CRA ^{b,c,d}	CRA ^{b,c,d}

^a As defined by NACE MR0175 / ISO 15156

^b In accordance with NACE MR0175 / ISO 15156 and 4.3.3.2

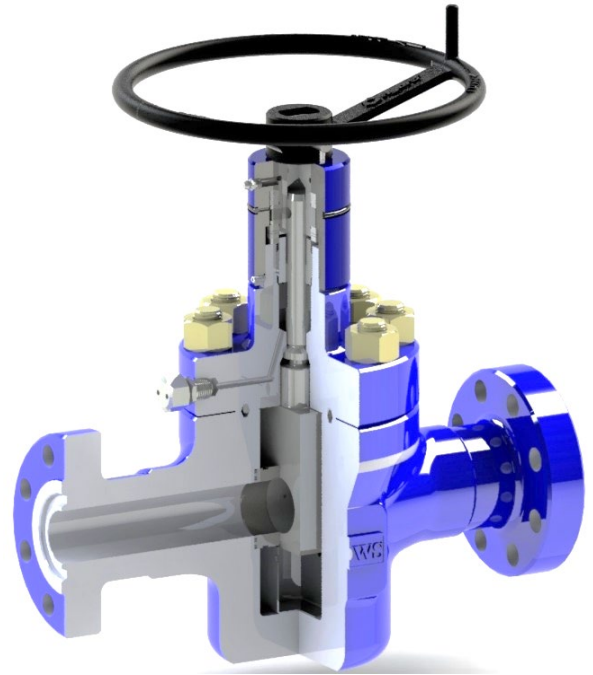
^c CRA required on retained fluid-wetted surfaces only; CRA cladding of low-alloy or SST

^d CRA as defined in 3.1.22 (Addendum 1); NACE MR0175 / ISO 15156 definition of CRA does not apply

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Design Features and Benefits

- Designed and manufactured in accordance with API 6A latest edition
- Metal to Metal Sealing between Seat and Gate
- Bi-Directional Sealing design for versatility and increased service life
- Upstream sealing design with non-elastomeric, spring-loaded and pressure energized seals; restricts debris from entering the bonnet cavities and continuously maintains contact between the gate and seat during downstream sealing function to eliminate body cavity clearance
- Beveled shoulder in the stem allows the stem packing to be replaced while the valve is under pressure
- Valve trims suitable for extremely corrosive, high temperature, H₂S and CO₂ environments
- Low operating torque with well lubricated upper and lower bearings
- Stem packing set is spring energized, hence no plastic injection is required
- Shear pin protects the stem from over-torquing
- Suitable for Drilling and Well Control Services, Exploration, Testing, Stimulation and Flow-back Services.



Aftermarket Solutions

With our well-equipped infrastructure and strategically located service centers in the region, we perform field service, with or without replacement of internals and perform all required tests as required by API 6AR and customer specifications. We can also mobilize valve workshop services remotely.

We are structured to support your emergency needs for aftermarket service as well as with sustainable services such as life extension programs, upgrades, asset optimization, Inventory optimization, Inventory standardization and Rationalization of Inventory to bring down your operational costs.



Worldwide Service Centers | 971.4.880.6262 | www.hydromiddleeast.com

hydroOFES@hydroinc.com | API 6A, 16A, 16C, 5CT and 7-1 licenses

