

# Model VARAM<sup>®</sup>

## Manual Gate Valve

SAYATVA'S Model VARAM™ is an upstream sealing valve that offers various features making it suitable for drilling and production applications in oil and gas services up to 20,000 PSI operating pressure.

### Bi-directional Sealing:

The valve is designed to provide sealing in both directions, ensuring effective isolation. This feature is particularly beneficial in applications where flow reversal may occur or when the valve needs to block fluid in either direction.

### Body without Penetrations:

The valve body has no penetrations. Grease injection fitting is located on the bonnet, on the downside of the backseat for safety.

### Stem Packing Design:

Stem seal design covers a wide range of pressures, temperatures, and fluids encountered in Production & Drilling Services.

### Reliability:

Model VARAM™ valve has record of proven performance in which it has passed more than 8500 cycles continuously with 1 hour Seat Test hold at intermediate predetermined cycles after PR2F Testing as per API 6A.

### Sealing Mechanisms:

- Unique sealing mechanism with upstream seals
- Less number of parts in sealing mechanisms
- In-built Redundancy for valve sealing failure

### Features & Benefits:

- Upstream Sealing
- Bi-directional valve
- Single Seat Design
- Back seat as standard to meet API 6A
- True low-pressure sealing
- Metal to metal sealing provides extended service life between maintenance period
- No elastomers
- Designed for extreme pressure and temperature
- Various trims are available to meet different operating conditions
- Valve opens and closes without requiring excessive torque
- Bearing cap grease fitting allows positive bearing lubrication
- Easy Assembly and Disassembly
- Low Maintenance

### Application:

- Drilling application
- Production applications
- Well Head & Christmas Tree equipment
- Choke & Kill manifold
- MPD manifolds
- Mud applications

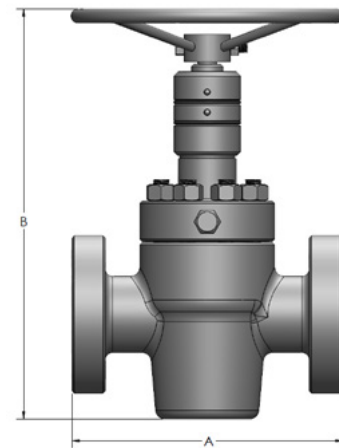


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Technical Specification:	
Inlet / Outlet Connections	2-1/16" to 7-1/16"
API Pressure Rating (PSI)	5000, 10000, 15000, 20000
Design Standard	API Spec 6A Latest Edition
Material Class	API Material class DD up to HH-NL - The valve body / bonnet with forged construction - The valve body with cast construction as an option - 75K material, impact tested
Temperature Range	-50 deg. F to 350 deg. F
PSL	PSL 1, PSL 2, PSL 3, PSL 3G
PR	PR 1, PR 2, PR2F
Service Condition	NACE MR0175 / H2S Service
Trim options	Single Seat Design with Gates and Seats are Hard Faced to Tungsten Carbide (TC)
Actuation	Manual Handwheel / Gear Operated Actuation (Pneumatic/Electric Actuation as an Option)
Bolting	As per API 20E Monogrammed (BSL 1, BSL 2, BSL 3)
Inlay Requirements	Alloy 625 inlay for Ring Grooves, Seat Pockets & Stem Packing Area (upon request)
Face to Face Reference	As per API 6A latest Edition
Monograms	As per API 6A latest Edition
Certifications / Type Approval	Additional Third-party certification available upon request

Valve Dimensions:			
Valve Size	Face to Face (A) (±0.06)	Height (B) (±0.04)	Weight (lbs)
<b>15000 PSI</b>			
2-1/16"	19"	25.00"	350 lbs
3-1/16"	23.56"	37.85"	1065 lbs
4-1/16"	29"	60.00"	1400 lbs



Other sizes dimension details are available upon request.  
For further questions or quotations requests, contact [sales@sayatva.com](mailto:sales@sayatva.com).