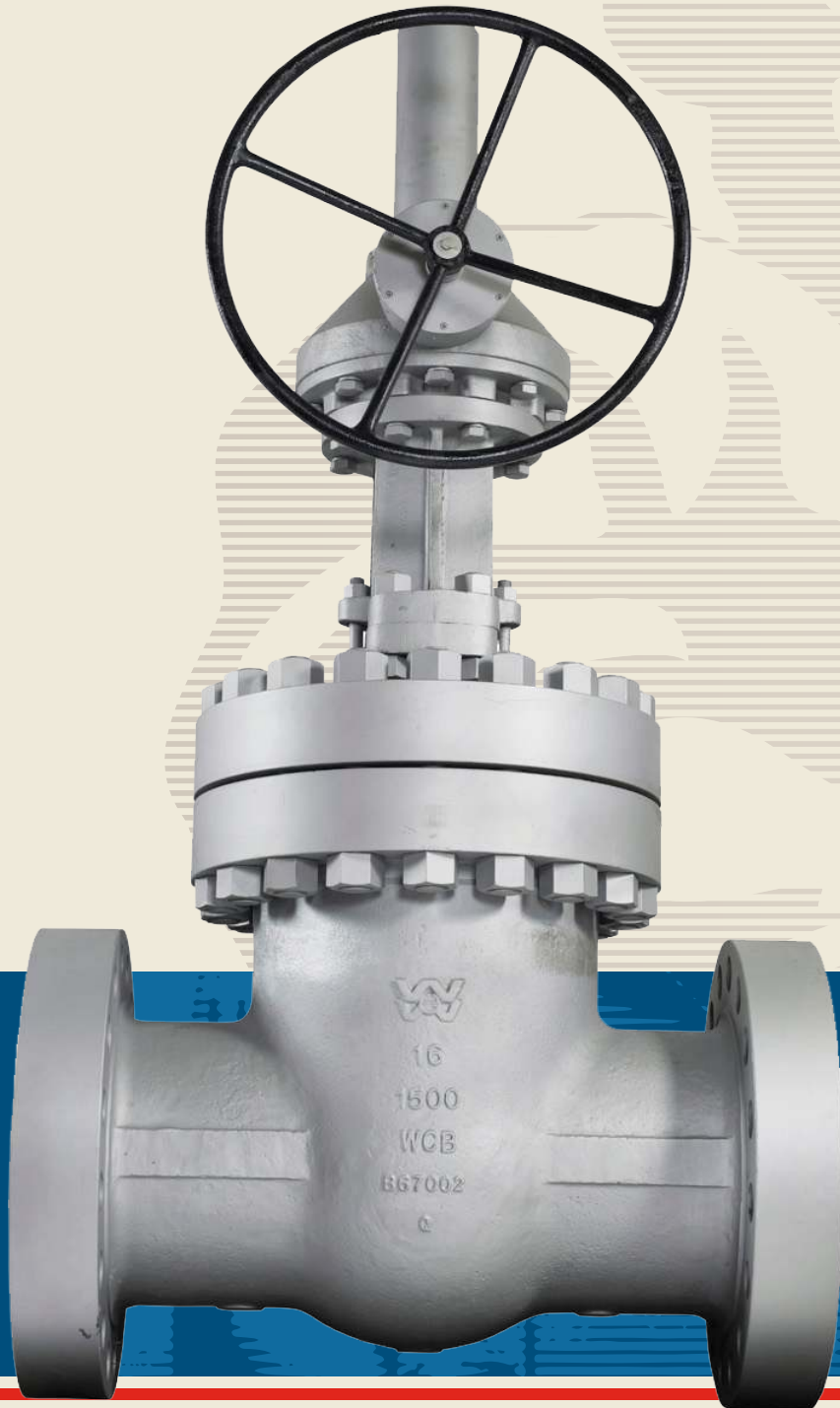




# **WILLIAMS**

VALVE CORPORATION



## **PRODUCT LINE OVERVIEW**

*“Our goal is to produce  
high quality valves,  
fully traceable, at prices  
competitive in the global  
marketplace.”*

## A MESSAGE FROM THE PRESIDENT

Founded in 1918, William E. Williams Valve Corporation has continuously produced high quality valves for industrial and commercial applications including: oil refining, chemical processing, power generation, mining, paper, pharmaceutical processes, as well as, commercial and military shipbuilding.

Product improvements exceeding the latest environmental standards are constantly being implemented. Recently, we initiated a totally contained bonnet gasket design, which, with our standard stem packing, exceeds most fugitive emission requirements.

Williams' valves are designed, manufactured and tested to meet and exceed all applicable specifications to which they are constructed. Our goal is to produce high quality valves, fully traceable, at prices competitive in the global marketplace deliveries to match the “just in time” requirements of today's business world. In order to accomplish this goal, we maintain large inventories of finished products to support our distribution network.

All products are completely traceable to chemical, physical and pressure test records. Additional non-destructive testing is offered when specified.

We have years of experience working on special requirements: electric, hydraulic or pneumatic automation, gear operators emergency shut-off valves, soft seats and discs, by-pass valve installations and extended bonnets.

We believe that William E. Williams has a record of quality equal to or better than any in the valve industry. We are a privately owned company whose accomplishments have been achieved by the dedication and commitment of our employees to provide a standard of excellence in all our products for you, our present and future customers.

This condensed catalog is intended to provide an overview of our products. Detailed drawings are available in several formats. We appreciate your business and want to be your primary valve source.

Sincerely,



**Nick Sherman**  
President



## WILLIAMS PROFILE

*Rugged Reliable Valves since 1918*

### LOCATIONS:

**HEAD OFFICE:** Long Island City, NY  
**TEXAS BRANCH:** Houston, TX  
**CARBON STEEL GGC & BALL:** Dafeng, China  
**STAINLESS & ALLOY GGC:** Busan, Korea  
**DOMESTIC & NAVY PRODUCTS:** LIC, NY

### PRODUCT LINE:

- Cast & Forged Steel Gate, Globe, & Check Valves
- Forged Trunnion mounted Ball Valves
- Marine Valves for Commercial Vessels
- 100% made in the USA Valves for US Navy
- API-6D Pipeline Slab and Expanding Gate Valves
- Cast & Forged Stainless and Alloy Steel Valves for corrosive service
- Pressure seal bonneted valves for power and high-pressure applications
- Emergency Shutoff Valves for Tanks and Terminals
- Cryogenic service valves with extended bonnets

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Industry leading inventory of Stainless Steel GGC in Houston



Manufacturing and testing at our Williams' New York Location



VALVE TYPE	SIZE																											
	ASME CLASS	0.50	0.75	1.0	1.5	2	3	3	4	5	6	8	10	12	14	16	18	20	22	24	26	30	36	42	48	60		
BB GATE	150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	600	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	800	✓	✓	✓	✓	✓															✓	✓	✓	✓				
	900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
	1500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓														
	2500	✓	✓	✓	✓	✓	✓	✓	✓																			
BB GLOBE	150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
	600	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										
	800	✓	✓	✓	✓																							
	900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓															
	1500	✓	✓	✓	✓	✓	✓	✓	✓	✓																		
	2500	✓	✓	✓	✓	✓	✓	✓	✓																			
BB CHECK	150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	600	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
	800	✓	✓	✓	✓																							
	900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓														
	1500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓															
	2500	✓	✓	✓	✓	✓	✓	✓	✓																			
API-608 FLOATING BALL	150			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓															
	300			✓	✓	✓	✓	✓	✓	✓	✓	✓																
	600			✓	✓	✓	✓	✓	✓																			
	1500			✓	✓	✓																						
API-6D FORGED TRUNNION	150					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	300					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	600					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	900					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	1500					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	
	2500					✓	✓	✓	✓	✓	✓																	
PRESSURE SEAL GGC	600					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	900					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
	1500					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
	2500					✓	✓	✓	✓	✓	✓	✓	✓															
API 6D SLAB/CHECK	150					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	300					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	600					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
	900					✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓						

1. For valves larger than 42" CL150 and 24" CL600 wall thicknesses will be per ASME B16.34

2. API-602 available in Bolted and Welded Bonnet

Designs:

✓	API-603 / 600	✓	ASME B16.34 / API-594
✓	API-600	✓	API-594
✓	ASME B16.34 / API-623	✓	API-602
✓	API-623		

# ● BALL VALVE PRODUCTS



## TRUNNION MOUNTED BALL VALVE 2 PC BODY



### FEATURES

Size: 2"–4"  
Class: ASME 150-300-600  
Two Piece Forged Steel Body  
Trunnion Mounted Ball, Full & Reduced Bore  
Anti-Static Device  
Blow-out Proof Stem  
Fire Safe Design  
Centre Cavity Emergency sealant injection port  
Low Emission  
DB & B

### SPECIFICATIONS

Design: ASME B16.34/API 6D  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 6D  
Fire Safe Test: API 6FA  
NACE MR0175  
DIB Optional

## TRUNNION MOUNTED BALL VALVE 3 PC BODY



### FEATURES

Size: 2"–56"  
Class: ASME 150-300-600-900-1500-2500  
Three Piece Forged Steel Body  
Trunnion Mounted Ball, Full & Reduced Bore  
Anti-Static Device  
Blow-out Proof Stem  
Fire Safe Design  
Emergency Sealant Injector (6" & Larger)  
Low Emission  
DB & B

### SPECIFICATIONS

Design: ASME B16.34/API 6D  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 6D  
Fire Safe Test: API 6FA  
NACE MR0175  
DIB Optional

## WELDED BODY BALL VALVE



### FEATURES

Size: 2"–48"  
Class: ASME 150-300-600-900-1500-2500  
Fully Welded Forged Steel Body  
Trunnion Mounted Ball, Full & Reduced Bore  
Anti-Static Device  
Blow-out Proof Stem  
Double Block and Bleed  
Fire Safe Design  
Emergency Sealant Injector (6" & Larger)  
Lifting Lugs (8" & Larger)  
Low Emission  
DB & B

### SPECIFICATIONS

Design: ASME B16.34/API 6D  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Fire Safe Test: API 6FA  
NACE MR0175  
DIB Optional

## METAL SEATED BALL VALVE



### FEATURES

Size: 2"–24"  
Class: ASME 150-300-600-900-1500-2500  
Three Piece Forged Steel Body  
Trunnion Mounted Ball  
Full & Reduced Bore  
Anti-Static Device  
Blow-out Proof Stem  
Fire Safe Design  
Low Emission  
DB & B

### SPECIFICATIONS

Design: ASME B16.34/API 6D  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 6D  
Fire Safe Test: API 607/API 6FA  
Higher temperature optional  
NACE MR0175

## FLOATING BALL VALVE 2 PC BODY



### FEATURES

Size: 1"–12"  
Class: ASME 150-300  
Two Pieces Cast Steel Body  
Floating Ball, Full & Reduced Bore  
Anti-Static Device  
Blow-out Proof Stem  
Fire Safe Design  
Low Emission

### SPECIFICATIONS

Design: ASME B16.34/API 608  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 598  
Fire Safe Test: API 607  
NACE MR0175

## CAST TRUNNION MOUNTED BALL VALVE



### FEATURES

Size: 2"–24"  
Class: ASME 150-300-600  
Two Piece Cast Steel Body  
Trunnion Mounted Ball  
Full & Reduced Bore, Anti-Static Device  
Blow-out Proof Stem  
Fire Safe Design  
Emergency Sealant Injector (6' & Larger)  
Low Emission  
DB & B

### SPECIFICATIONS

Design: ASME B16.34/API 6D  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 6D  
Fire Safe Test: API 6FA  
NACE MR0175  
DIB Optional

## TOP ENTRY BALL VALVE



### FEATURES

Size: 2"–48"  
Class: ASME 150-300-600-900-1500-2500  
1 Piece Forged Steel Body  
Trunnion Mounted Ball, Full & Reduced Bore  
Anti-Static Device  
Blow-out Proof Stem  
Double Block and Bleed  
Fire Safe Design  
Emergency Sealant Injector (6" & Larger)  
Vent Valve (6" & Larger)  
Lifting Lugs (8" & Larger)  
Low Emission

### SPECIFICATIONS

Design: ASME B16.34/API 6D  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 6D  
Fire Safe Test: API 6FA  
NACE MR0175

## CRYOGENIC SERVICE BALL VALVE



### FEATURES

Size: 1/2"–24"  
Class: ASME 150-300-600-900  
Cryogenic Service to -196°C  
Forged or Cast Steel Body  
Floating & Trunnion Mounted Ball  
Full & Reduced Bore  
Extended Bonnet, Lip Seal  
Cavity Pressure Relief  
Anti-Static Device  
Blow-out Proof Stem  
Fire Safe Design

### SPECIFICATIONS

Design: ASME B16.34/API 608/MSS SP-134  
Face to Face: API 6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API 6D  
Fire Safe Test: API 6FA  
NACE MR0175



## BOLTED BONNET WEDGE GATE



### FEATURES

Size: 2" – 60"  
ASME Class: 150-300-600-900-1500-2500  
Cast Steel Bolted Bonnet, OS&Y Rising Stem  
Full Port to API-600  
API 624 Certified Graphite Packing  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket (CL150-300)  
Ring Joint bonnet gasket (CL600-900-1500-2500)  
Fully Guided discs  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-600 / ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
NACE: MR0175 / MR0103  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & Drains  
Available Materials: WCB-LCC-WC6-WC9-C12-316SS-CD3MN

## CORROSION RESISTANT BOLTED BONNET WEDGE GATE



### FEATURES

Size: 2" – 36"  
ASME Class: 150-300-600-900-1500-2500  
Cast Bolted Bonnet, OS&Y Rising Stem  
API 624 Certified Graphite Packing  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket  
Fully Guided discs  
Teflon Packing Optional  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-603 / ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & Drains  
Available materials: 304SS-316SS-347SS-CD3MN-Inconel 625-Monel 400-Alloy 20  
NACE by request

## API-6D THROUGH CONDUIT GATE



### FEATURES

Size: 2" – 42"  
ASME Class: 150-300-600-900-1500  
Cast Steel Bolted Bonnet, OS&Y Rising Stem  
Adjustable Low Emission Graphite Packing  
3 Mil ENP coated seat rings / slab / stem  
Slab & Expanding Styles  
Through conduit full bore for pigs & Scrapers  
Double Block and Bleed (Optional DIB)  
Independent Coil seat springs  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-6D  
Face to Face: API-6D  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-6D  
Fugitive Emissions: API-622  
Bosses for bypasses & Drains  
Available materials: WCC-WCB-LCC-316SS  
Firesafe API-6FA  
NACE MR-0175

## PRESSURE SEAL BONNET WEDGE GATE & PARALLEL SLIDE GATE



### FEATURES

Size: 2" – 36"  
ASME Class: 600-900-1500-2500  
Cast Steel PS Bonnet, OS&Y Rising Stem  
Low Emission Graphite Packing to API-622  
Ground and Lapped Renewable Seat rings  
Graphoil or Metal PS Gasket  
Fully Guided discs  
Parallel Slide – Position Seated  
Wedge Gate – Torque Seated  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: ASME B16.34 / MSS-SP144 / API-600  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & drains  
Available materials: WCB-LCC-WC6-WC9-C12-316SS  
NACE by request

## FORGED STEEL BOLTED BONNET WEDGE GATE



### FEATURES

Size: 0.5" – 3"  
 ASME Class: 150-300-600-800-900-1500-2500  
 Forged Steel Bolted Bonnet, OS&Y Rising Stem  
 Ground and lapped pressed in Seat Rings  
 Spiral Wound Bonnet gasket  
 Full Port or Standard port  
 API 624 Certified Graphite Packing  
 NACE MR0175 / MR0103  
 Options: Extended Bonnet / Extended Body  
 End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
 Face to Face: MFG standard  
 End Flange: ASME B16.5  
 BW End: ASME B16.25  
 SW ends to ASME B16.11  
 Screwed end to ASME B1.20.1  
 Test: API-598  
 Fugitive Emissions: API-622 / API-624  
 Available materials: A105-LF2-F5-F9-F11-F22-F91-304SS-316SS-317SS-347SS-F51-F53-Inconel-Monel

## FORGED STEEL WELDED BONNET WEDGE GATE



### FEATURES

Size: 0.5" – 3"  
 ASME Class: 150-300-600-800-900-1500-2500  
 Forged Steel Welded Bonnet (Strength Weld)  
 Ground and lapped pressed in Seat Rings  
 Full Port or Standard port  
 OS&Y Rising Stem  
 API 624 Certified Graphite Packing  
 NACE MR0175  
 Options: Extended Bonnet / Extended Body  
 End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
 Face to Face: MFG standard  
 End Flange: ASME B16.5  
 BW End: ASME B16.25  
 SW ends to ASME B16.11  
 Screwed end to ASME B1.20.1  
 Test: API-598  
 Fugitive Emissions: API-622 / API-624  
 Available materials: A105-LF2-F5-F9-F11-F22-F91-304SS-316SS-317SS-347SS-F51-F53-Inconel-Monel

## CRYOGENIC CAST STEEL BOLTED BONNET WEDGE GATE



### FEATURES

Size: 2" – 24"  
 ASME Class: 150-300-600-900-1500  
 Cast Steel Bolted Bonnet, OS&Y Rising Stem  
 Fully Guided discs  
 Spiral Wound bonnet gasket  
 Extended Bonnet, Equalization vent holes  
 Major components receive Cryogenic subzero conditioning before machining to ensure high quality standards for cryogenic service  
 End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-603 / ASME B16.34  
 Face to Face: ASME B16.10  
 End Flange: ASME B16.5  
 BW End: ASME B16.25  
 Test: API-598 / MSS SP-134  
 Fugitive Emissions: API-622 / API-624  
 Available materials: 316SS  
 Optional: Cryogenic testing to ISO or BS code

## CRYOGENIC FORGED STEEL BOLTED BONNET WEDGE GATE



### FEATURES

Size: 0.5" – 2"  
 ASME Class: 150-300-600-800-900-1500  
 Forged body with one-piece extended bonnet  
 OS&Y Rising Stem  
 Low Emission Graphite Packing to API-622  
 Ground and lapped pressed in Seat Rings  
 Spiral Wound bonnet gasket  
 Extended Bonnet  
 Equalization vent holes  
 End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
 Face to Face: MFG standard  
 End Flange: ASME B16.5  
 BW End: ASME B16.25  
 SW ends to ASME B16.11  
 Screwed end to ASME B1.20.1  
 Test: API-598 / MSS SP-134  
 Fugitive Emissions: API-622 / API-624  
 Available materials: F316SS



## CAST STEEL MARINE WEDGE GATE ABS TYPE APPROVED



### FEATURES

Size: 2"-24"  
ASME Class: 150-300  
Bolted Bonnet  
Rising or Non-Rising Stem  
Fully Guided disc  
Calibrated position indicator  
Standard trim: Bronze or 13Cr/HF  
Graphoil Packing  
Adaptable for reach-rod systems  
End Connections: RF, BW

### SPECIFICATIONS

Design: API600 / ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598  
Fugitive Emissions: API-622  
Bosses for bypasses & drains  
Available materials: WCB-316SS

## BRONZE MARINE WEDGE GATE ABS TYPE APPROVED



### FEATURES

Size: 2" - 12"  
ASME Class: 150  
Bolted Bonnet  
OS&Y or Non-Rising  
Fully Guided discs  
Calibrated position indicator  
Standard Bronze Trim  
Adaptable for reach-rod systems  
Integral backseat  
End Connections: RF

### SPECIFICATIONS

Design: ASME B16.24  
Face to Face: MFG standard  
End Flange: ASME B16.5  
Test: MSS SP-80  
Available materials: B61-B62-Monel-Titanium

## MIL-SPEC WEDGE GATE



### FEATURES

Size: 1"-12"  
ASME Class: 150-300  
Bolted Bonnet  
OS&Y  
Mil-Spec valves are special orders for U.S. government only  
Valves are made in the USA  
Shock & Vibe tested  
Connections: RF

### SPECIFICATIONS

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598  
Bosses for bypasses & drains  
Available materials: Composition A, B, C, D & E  
Per MIL-V-18110F

## BOLTED BONNET T-PAT & Y-PAT GLOBE



### FEATURES

Size: 2" – 30"  
ASME Class: 150-300-600-900-1500-2500  
Cast Steel Bolted Bonnet, OS&Y Rising Stem  
API 624 Certified Graphite Packing  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket (CL150-300)  
Ring Joint bonnet gasket (CL600-900-1500-2500)  
Body Guided discs  
Optional Stop Check Feature  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-623 / ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
NACE: MR0175 / MR0103  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & Drains  
Available Materials: WCB-LCC-WC6-WC9-  
C12-316SS-CD3MN

## CORROSION RESISTANT BOLTED BONNET GLOBE



### FEATURES

Size: 2" – 30"  
ASME Class: 150-300-600-900-1500-2500  
Cast Bolted Bonnet, OS&Y Rising Stem  
API 624 Certified Graphite Packing  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket  
Fully Guided discs  
Optional Teflon Packing  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & Drains  
Available materials: 304SS-316SS-347SS-  
CD3MN-Inconel 625-Monel 400-Alloy 20  
NACE by request

## PRESSURE SEAL BONNET T-PAT & Y-PAT GLOBE



### FEATURES

Size: 2" – 24"  
ASME Class: 600-900-1500-2500  
Cast Steel PS Bonnet, OS&Y Rising Stem  
Ground and Lapped Renewable Seat rings  
Body Guided Discs  
Graphoil or Metal PS Gasket  
Non-rotating stem  
Low Emission Graphite Packing to API-622  
Optional Stop Check Feature  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: ASME B16.34 / MSS-SP144  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & drains  
Available materials: WCB-LCC-WC6-  
WC9-C12-316SS  
NACE by request

## FORGED STEEL BOLTED BONNET GLOBE



### FEATURES

Size: 0.5" – 2"  
ASME Class: 150-300-600-800-900-1500-2500  
Forged Steel Bolted Bonnet, OS&Y Stem  
Ground and lapped pressed in Seat Rings  
Spiral Wound Bonnet gasket  
API 624 Certified Graphite Packing  
NACE MR0175 / MR0103  
Options: Extended Bonnet / Extended Body  
End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
Face to Face: MFG standard  
End Flange: ASME B16.5  
BW End: ASME B16.25  
SW ends to ASME B16.11  
Screwed end to ASME B1.20.1  
Test: API-598  
Fugitive Emissions: API-622 / API-624  
Available materials: A105-LF2-F5-F9-F11-F22-  
F91-304SS-316SS-317SS-347SS-F51-F53-  
Inconel-Monel



## FORGED STEEL WELDED BONNET GLOBE



### FEATURES

Size: 0.5" – 2"  
ASME Class: 150-300-600-800-900-1500-2500  
Forged Steel Welded Bonnet (Strength Weld)  
Ground and lapped pressed in Seat Rings  
OS&Y Rising Stem  
API 624 Certified Graphite Packing  
NACE MR0175 / MR0103  
Options: Extended Bonnet / Extended Body  
End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
Face to Face: MFG standard  
End Flange: ASME B16.5  
BW End: ASME B16.25  
SW ends to ASME B16.11  
Screwed end to ASME B1.20.1  
Test: API-598  
Fugitive Emissions: API-622 / API-624  
Available materials: A105-LF2-F5-F9-F11-F22-F91-304SS-316SS-317SS-347SS-F51-F53-Inconel-Monel

## CRYOGENIC CAST STEEL BOLTED BONNET GLOBE



### FEATURES

Size: 2" – 24"  
ASME Class: 150-300-600-900-1500  
Cast Steel Bolted Bonnet, OS&Y Rising Stem  
Fully Guided discs  
Spiral Wound bonnet gasket  
Extended Bonnet  
Major components receive Cryogenic subzero conditioning before machining to ensure high quality standards for cryogenic service  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598 / MSS SP-134  
Fugitive Emissions: API-622 / API-624  
Bosses for bypasses & Drains  
Available materials: 316SS  
Optional: Cryogenic testing to ISO or BS code

## CRYOGENIC FORGED STEEL BOLTED BONNET GLOBE



### FEATURES

Size: 0.5"- 2"  
ASME Class: 150-300-600-800-900-1500  
Forged body, one-piece extended bonnet  
OS&Y Rising Stem  
Low Emission Graphite Packing to API-622  
Ground and lapped pressed in Seat Rings  
Spiral Wound bonnet gasket  
Extended Bonnet  
End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
Face to Face: MFG standard  
End Flange: ASME B16.5  
BW End: ASME B16.25  
SW ends to ASME B16.11  
Screwed end to ASME B1.20.1  
Test: API-598 / MSS SP-134  
Fugitive Emissions: API-622 / API-624  
Available materials: F316SS

## CAST STEEL MARINE T-PAT & ANGLE GLOBE - ABS TYPE APPROVED



### FEATURES

Size: 2"-16"  
ASME Class: 150  
Bolted Bonnet  
Rising Hand wheel  
Fully Guided disc  
Trim: Aluminum Bronze  
Graphoil Packing  
Stop Check Feature (Optional)  
End Connections: RF, BW

### SPECIFICATIONS

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598  
Fugitive Emissions: API-622  
Bosses for bypasses & drains  
Available materials: WCB

**BRONZE MARINE T-PAT & ANGLE GLOBE - ABS TYPE APPROVED**



**FEATURES**

Size: 1½"-12"  
ASME Class: 150  
Bolted Bonnet  
Rising Hand wheel  
Trim: Bronze  
Optional Monel Trim  
Graphoil Packing  
Stop Check Feature (Optional)  
End Connections: RF

**SPECIFICATIONS**

Design: ASME B16.24  
Face to Face: MFRS Std.  
End Flange: ASME B16.5  
Test: MSS SP-80  
Available materials: B62-B61 Bronze

**MIL-SPEC T-PAT & ANGLE GLOBE**



**FEATURES**

Size: 2"-12"  
ASME Class: 150-300-600  
Bolted Bonnet  
Mil-Spec valves are special orders for U.S. government only  
Valves are made in the USA  
Shock & Vibe tested  
End Connections: RF

**SPECIFICATIONS**

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598  
Bosses for bypasses & drains  
Available materials: Composition A, B, & D  
Per MIL-V-22052



## BOLTED BONNET SWING & PISTON CHECK



### FEATURES

Size: 2" – 42"  
ASME Class: 150-300-600-900-1500-2500  
Cast Steel Bolted Cap  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket (CL150-300)  
Ring Joint bonnet gasket (CL600-900-1500-2500)  
Dual secured Disc Nut  
Anti-rotation pins  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-594 / ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Available Materials: WCB-LCC-WC6-WC9-C12-316SS-CD3MN  
NACE: MR0175 / MR0103

## CORROSION RESISTANT BOLTED BONNET SWING CHECK



### FEATURES

Size: 2" – 36"  
ASME Class: 150-300-600  
Cast Steel Bolted Cap  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket (CL150-300)  
Ring Joint bonnet gasket (CL600-900-1500-2500)  
Dual secured Disc Nut  
Anti-rotation pins  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Available materials: 304SS-316SS-347SS-CD3MN-Inconel 625-Monel 400-Alloy 20  
NACE by request

## PRESSURE SEAL BONNET SWING & TILTING DISK CHECK



### FEATURES

Size: 2" – 30"  
ASME Class: 600-900-1500-2500  
Cast Steel Pressure Seal Cap  
Ground and Lapped Renewable Seat rings  
PS Gasket knock out holes  
Graphoil / Metal Bonnet gasket  
Swing check or Tilting Disc designs  
Optional live loaded draw bolts  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: ASME B16.34 / MSS-SP-144 / API-600  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-598  
Available materials: WCB-LCC-WC6-WC9-C12-316SS  
NACE by request

## THROUGH CONDUIT SWING CHECK



### FEATURES

Size: 2" – 42"  
ASME Class: 150-300-600-900-1500  
Cast Steel Bolted Cap  
Semi-metallic bonnet gasket (CL150-300)  
Ring Joint bonnet gasket (CL600-900-1500-2500)  
Through conduit full bore for pigs & Scrapers  
Available in soft and metal seats  
Dual secured Disc Nut  
Anti-rotation pins  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-6D  
Face to Face: ASME B16.10  
End Flange: ASME B16.5 / B16.47  
BW End: ASME B16.25  
Test: API-6D  
Available materials: WCB-LCC-WC6-WC9-C12-316SS  
NACE by request

## FORGED STEEL SWING, PISTON & BALL CHECK



### FEATURES

Size: 0.5" – 2"  
ASME Class: 150-300-600-800-900-1500-2500  
Bolted Cap or Welded Cap (Strength Weld)  
Ground and lapped pressed in Seat Rings  
Spiral Wound Bonnet gasket  
Full Port or Standard port  
Standard 304SS Springs  
End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: API-602  
Face to Face: MFG standard / ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
SW ends to ASME B16.11  
Screwed end to ASME B1.20.1  
Test: API-598  
Available materials: A105-LF2-F5-F9-F11-F22-F91-304SS-316SS-317SS-347SS-F51-F53-Inconel-Monel  
NACE: MR0175 / MR0103

## CRYOGENIC BOLTED BONNET CHECK



### FEATURES

Size: 0.5" – 24"  
ASME Class: 150-300-600-900-1500  
Cast Steel & Forged steel options  
Ground and Lapped Renewable Seat Rings  
Spiral Wound bonnet gasket  
Full Port or Standard Port  
Major components receive Cryogenic subzero conditioning before machining to ensure high quality standards for cryogenic service  
End Connections: RF, RTJ, BW, SW, Threaded

### SPECIFICATIONS

Design: ASME B16.34 / API-602  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Standard Test: API-598 / MSS SP-134  
Available materials: 316SS  
Optional: Cryogenic testing to ISO or BS code

## MARINE SWING CHECK - ABS TYPE APPROVED



### FEATURES

Size: 1.5"-16"  
ASME Class: 150  
Bolted Cap  
Ground and Lapped Renewable Seat rings  
Semi-metallic bonnet gasket  
Dual secured Disc Nut  
Anti-rotation pins  
End Connections: RF

### SPECIFICATIONS

Design: ASME B16.34 / ASME B16.24  
Face to Face: ASME B16.10 or MFG Std  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598-MSS SP-80  
Available materials: WCB-B61-B62  
Trims: Bronze-Aluminum Bronze-Monel

## MIL-SPEC SWING CHECK



### FEATURES

Size: ½"-12"  
ASME CL: 150-300-600  
Bolted Cap  
Mil-Spec valves are special orders for U.S. government only  
Valves are made in the USA  
Shock & Vibe tested  
End Connections: RF

### SPECIFICATIONS

Design: ASME B16.34  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598  
Bosses for bypasses & drains  
Available materials: Group C, TYPE III, STYLE A  
Per MIL-V-18436F

# ● SPECIALTY VALVE PRODUCTS



## EMERGENCY SHUT-OFF VALVES



### FEATURES

Size: 2"-30"  
Class: ASME 150-300-600-900-1500  
Bolted Bonnet  
Local and/or remote actuation  
Fire-Safe fusible link  
Back pressure ensures a tight seal between the disc and seat. Once closed, the valve can ONLY be reset manually as a safety feature  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-594  
Face to Face: ASME B16.10  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-598  
Available materials: WCB-LCC-WC6-WC9-CF8M

## EMERGENCY SHUT-OFF VALVES – FULL PORT



### FEATURES

Size: 2"-30"  
Class: ASME 150-300-600-900-1500  
Bolted Bonnet, Through Conduit Full Port Body  
Local and/or remote actuation  
Fire-Safe fusible link  
Back pressure ensures a tight seal between the disc and seat. Once closed, the valve can ONLY be reset manually as a safety feature  
End Connections: RF, RTJ, BW

### SPECIFICATIONS

Design: API-6D  
Face to Face: API-6D  
End Flange: ASME B16.5  
BW End: ASME B16.25  
Test: API-6D / API-598  
Available materials: WCB-LCC-WC6-WC9-CF8M



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