

## INTRODUCTION



"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 VALVE PROFILE AND CAPABILITIES**



## **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









## **TABLE OF CONTENTS**

	Scope Size and Class	• •	• •	٠	• •	٠	•		۰	۰	•	•	• •	٠	۰	•	•	•			•		•	۰	••	5
•	Ball Valve Products		• •			•			•	•	•	•		•	•	•	•	•	•	•	•	•		•	••	6
•	Gate Valve Products		•	•			•	•		۰	•	•	•		•	٠	•	•	•	•	•	•		•	••	8
•	<b>Globe Valve Products</b>	• •		•	• •	•	•		•	۰	•		• •	•	٠	•	•	•	•	•	•	•			••	11
•	Check Valve Products	• •	•		•		•	•	•	•	•		•	•	•	•	•	•	•	•		•		•	••	14
•	Specialty Valve Produc	ts	•	• •		• •	•	•	•	•			•	•		•							•	•	• •	16



Industry leading inventory of Stainless Steel GGC in Houston



Manufacturing and testing at our Williams' New York Location

# SCOPE SIZE AND CLASS



	SIZE																									
VALVE TYPE	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
	150	1	<b>✓</b>	1	<b>✓</b>	1	/	1	1	1	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	1	1	1	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	1
	300	1	1	1	1	1	1	1	1	1	/	<b>✓</b>	/	<b>✓</b>	/	/	1	<b>✓</b>	/	/	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	
	600	1	1	1	1	1	1	/	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	/	1	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>		
BB GATE	800	<b>✓</b>	1	1	1																					
UNIE	900	<b>✓</b>	1	<b>✓</b>	1	1	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	1	<b>✓</b>														
	1500	<b>✓</b>	1	<b>✓</b>	1	1	<b>✓</b>																			
	2500	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>																	
	150	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	✓	<b>✓</b>																	
	300	<b>✓</b>	~	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>/</b>	✓	<b>✓</b>	✓	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>						
	600	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>																
BB GLOBE	800	<b>✓</b>	1	<b>✓</b>	1																					
ULUDE	900	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>✓</b>	1	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>													
	1500	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>/</b>															
	2500	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>																
	150	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	~	<b>/</b>	<b>/</b>	<b>✓</b>	<b>/</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>/</b>	~	<b>✓</b>	/	<b>✓</b>	<b>✓</b>		
	300	<b>✓</b>	~	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>/</b>	<b>✓</b>	<b>/</b>				
DD.	600	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>/</b>												
BB CHECK	800	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>																					
	900	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	1	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	~	<b>✓</b>	<b>/</b>	<b>/</b>												
	1500	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	/	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	~	<b>/</b>	<b>✓</b>													
	2500	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>																
ADI COO	150			<b>✓</b>	<b>/</b>	~	<b>✓</b>	<b>/</b>	<b>/</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>/</b>													
API-608 FLOATING	300			<b>✓</b>	<b>✓</b>	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	<b>✓</b>	<b>/</b>	<b>/</b>														
BALL	600			<b>/</b>	<b>/</b>	~	<b>✓</b>	~	<b>✓</b>	~																
	1500			<b>✓</b>	<b>✓</b>	<b>/</b>																				
	150					~	<b>✓</b>	~	<b>✓</b>	<b>/</b>	~	~	~	~	~	~	~	<b>✓</b>	<b>✓</b>	~	<b>✓</b>	<b>✓</b>	<b>/</b>	<b>/</b>	/	~
ADLOD	300					/	<b>/</b>	/	<b>/</b>	/	<b>/</b>	<b>/</b>	<b>/</b>													
API-6D Forged	600					/	<b>/</b>	/	<b>/</b>	<b>/</b>	/	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	~	<b>/</b>	<b>/</b>	<b>/</b>	/	/	<b>✓</b>	<b>/</b>		
TRUNNION	900					/	<b>/</b>	~	<b>/</b>	/	/	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>	/	<b>/</b>	<b>/</b>	<b>/</b>	/				
	1500					/	<b>/</b>	~	<b>/</b>	<b>/</b>	<b>/</b>	_	_	<b>/</b>	<b>✓</b>	~	<b>/</b>	<b>/</b>	_	~						
	2500					/	~			<b>/</b>			_	_		_			_	_		_				
	600					/	<b>/</b>		<b>/</b>	/			1													
PRESSURE SEAL GGC	900					1					1												<b>/</b>			
OLAL UUU	1500					/	/	1		/			1	<b>/</b>	~	<b>/</b>										
	2500					<b>/</b>	/				<b>/</b>															
API	150					/	~			/		<b>/</b>				/				<b>/</b>	<b>/</b>	<b>/</b>	<b>/</b>			
6D Slab/	300					1					1															
CHECK	600					<b>V</b>	/				1				<b>/</b>	<b>/</b>	~	<b>/</b>	<b>✓</b>	<b>/</b>	<b>/</b>	<b>/</b>				
	900						<b>/</b>	/	<b>/</b>	~	<b>/</b>		-	<b>✓</b>												

- 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

✓ API-600

✓ ASME B16.34 / API-623

✓ API-623

✓ ASME B16.34 / API-594

✓ API-594

✓ API-602

## 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

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

BW End: ASME B16.25

**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

## BALL VALVE PRODUCTS



## 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**

NACE MR0175

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

## **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

## GATE VALVE PRODUCTS



### **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

## GATE VALVE PRODUCTS



## 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

## GATE VALVE PRODUCTS



## 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

## 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** 

Integral backseat
End Connections: RF

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

## GLOBE VALVE PRODUCTS



## **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) Fugitive Emissions: API-622 / API-624

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

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

## **GLOBE VALVE PRODUCTS**



### 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

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**

Available materials: 316SS

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

## GLOBE VALVE PRODUCTS



## **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

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

**SPECIFICATIONS** 

## **CHECK VALVE PRODUCTS**



### **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-

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) Test: API-6D

Through conduit full bore for pigs & Scrapers

Available in soft and metal seats

End Connections: RF, RTJ, BW

Dual secured Disc Nut

Anti-rotation pins

## **SPECIFICATIONS**

Design: API-6D

Face to Face: ASME B16.10

End Flange: ASME B16.5 / B16.47

BW End: ASME B16.25

Available materials: WCC-WCB-LCC-316SS

NACE by request

## CHECK VALVE PRODUCTS



## 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"

Full Port or Standard Port

ASME Class: 150-300-600-900-1500
Cast Steel & Forged steel options
Ground and Lapped Renewable Seat Rings
Spiral Wound bonnet gasket

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**

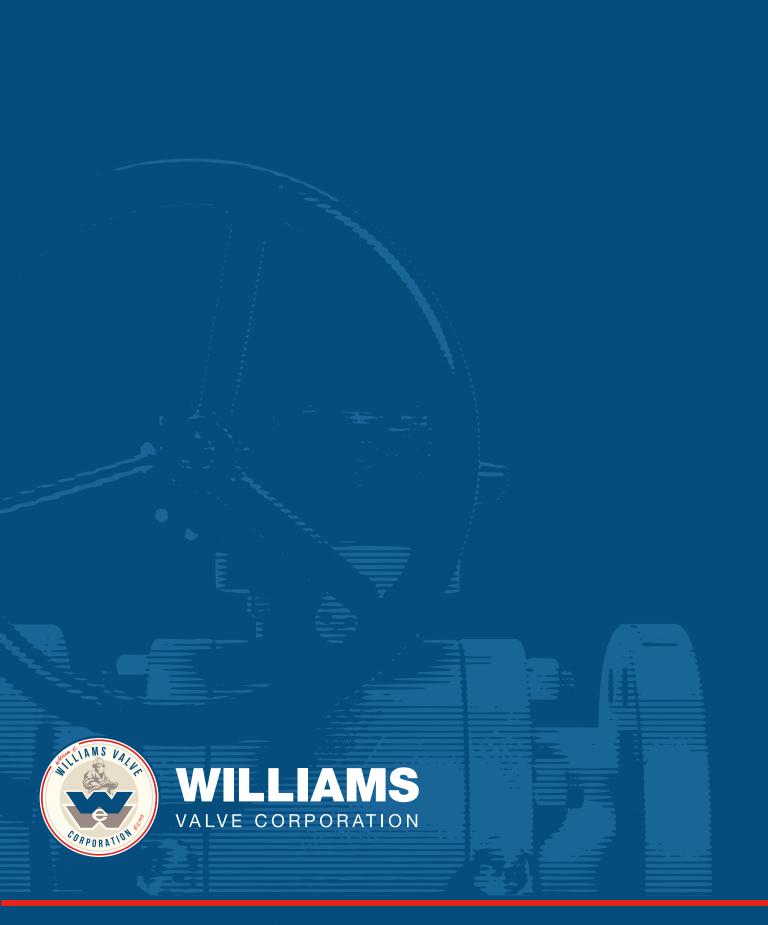
Design: API-6D Face to Face: API-6D

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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