

Double Block & Bleed Piping Ball Valves

Taurus Series – Twin Ball Design



General Features

Features

- **DESIGNED IN ACCORDANCE WITH INDUSTRY STANDARDS**
i.e. ASME B16.34, ASME B31.3, ASME B16.5, API 6D / ISO 14313
- **FULL BORE**
Meets the minimum bore requirements according to API 6D / ISO 14313, Table 1.
- **REDUCED BORE**
One size below nominal size of valve with bore according to API 6D / ISO 14313, Table 1.
- **STANDARD MATERIALS OF CONSTRUCTION**
are forged Carbon Steel LF2, Stainless Steel 316 and Duplex.
- **PRESSURE CLASS 150 TO 2,500**
- **FIRE SAFE IN ACCORDANCE TO API 607 AND ISO 10497**
- **COMPLIANT TO NACE MR0175 AND ISO 15156**
- **FACTORY TESTED**
in accordance with ASME B16.34, API 6D / ISO 14313, ISO 5208
- **MANUFACTURED IN ACCORDANCE WITH THE PRESSURE EQUIPMENT DIRECTIVE**
- **BALL SEAT MATERIAL**
PTFE, Devlon, PEEK or Metal Seated
- **STEM SEAL MATERIAL**
FKM, HNBR - RGD resistant (RGD = Rapid Gas Decompression) or Graphite
- **ANTI-BLOWOUT STEM DESIGN AND ANTI-STATIC DESIGN**
- **WELD INLAY**
Seat pocket and seal area overlay on request.
- **BI-DIRECTIONAL**
The Taurus Series floating and trunnion ball valves are bi-directional as standard.
- **PAINTING**
The valves can be supplied with any kind of adequate coatings for environmental protection, according to customers specifications.
- **CERTIFICATION AND TRACEABILITY**
Material test certificates 3.1 according to EN 10204. A unique code is stamped on all relevant components linking them with their material and chemical analysis certificates.

Manufactured according to the following Codes and Specifications

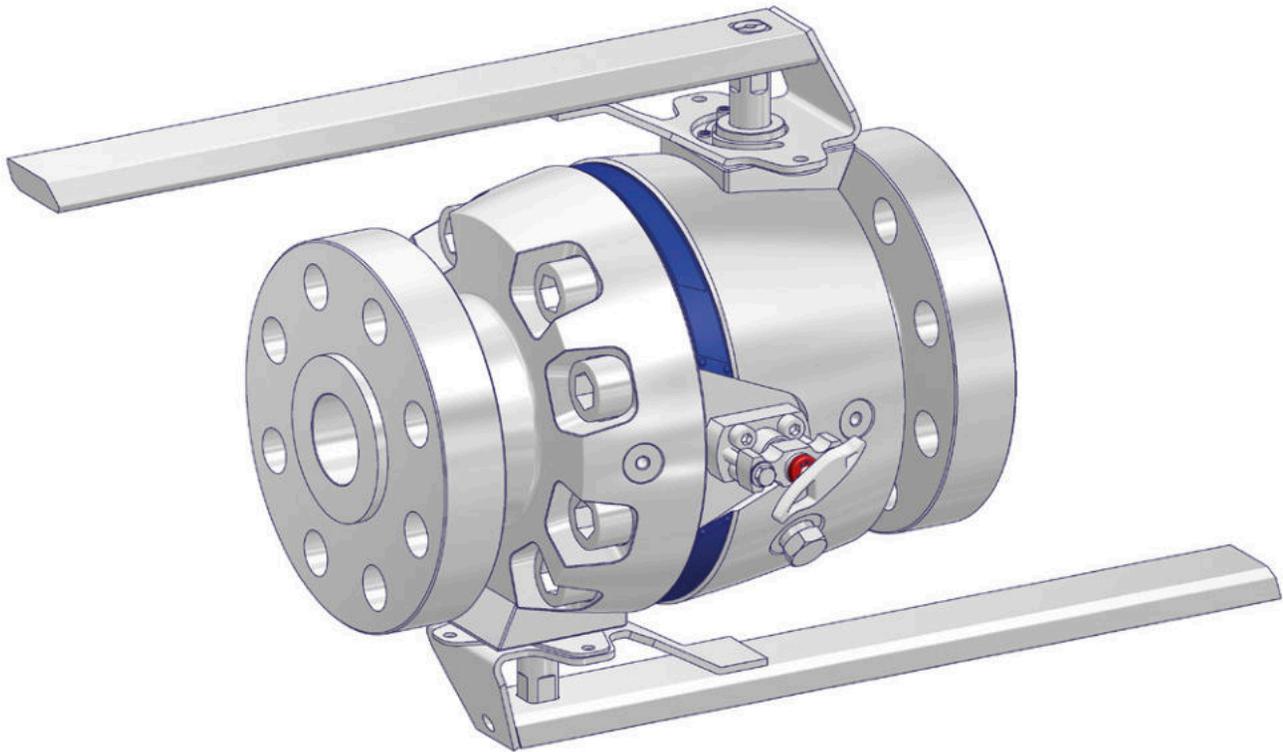
- ASME B31.3 Process Piping
- ASME B16.34 Valves – Flanged, Threaded and Welding End
- ASME B16.5 Pipe Flanges and Flanged Fittings
- ASME B16.10 Face-to-Face and End-to-End Dimensions of Valves
- ASME B16.11 Forged Fittings, Socket Welding and Threaded
- ASME B16.25 Buttwelding Ends
- NACE MR0175/ ISO 15156 Petroleum and Natural Gas Industries – Materials for use in H2S-containing Environments in Oil and Gas Production
- API 6D/ ISO 14313 Specification for Pipeline Valves
Petroleum and Natural Gas Industries – Pipeline Transportation Systems – Pipeline Valves
- API 598 Valve Inspection and Testing
- ISO 5208 Industrial Valves – Pressure Testing of Metallic Valves
- API 607/ ISO 10497 Fire Test for Soft-Seated Quarter Turn Valves Testing of Valves. Fire Type-testing Requirements
- MSS SP-25 Standard Marking System for Valves, Fittings, Flanges and Unions

YOUR BENEFITS:

- Compact Assembly
- Reduced Weight
- Reduced Leak Paths
- Reduced Installation and Maintenance Costs
- Significant Space Savings

BASICALLY WE OFFER 2 DIFFERENT DESIGNS:

- 2 Piece Design
- 3 Piece Design
- Both Flanged Style and Side Entry



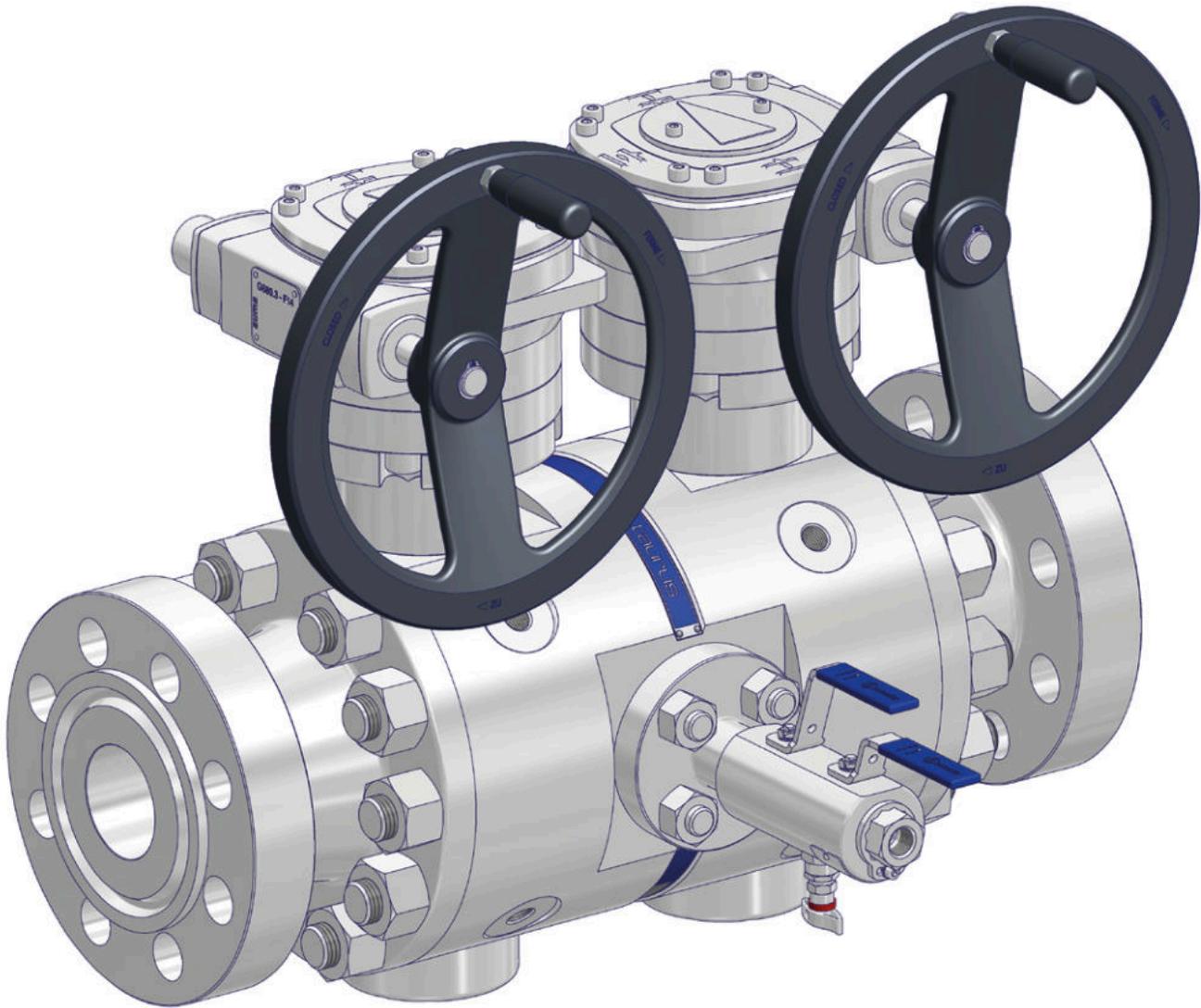
2 Piece Design, Flanged Style - Features

- Bore Size 1" through 2"
- Floating Ball Design (Bore Size 1" through 2")
- Trunnion Ball Design (Bore Size 2" only)
- Acc. to ASME B16.10 Standard Length
 - Floating Ball Design Class 600, 900 & 1,500
 - Trunnion Ball Design Class 900, 1,500
- Non Standard Length for Class 150 & 300 and also for Trunnion Ball Design Class 600
- Flanged Connections acc. to ASME B16.5
- Vent: Integral Needle Valve
- Lockable Handle/Lever - removable, Gear Box Operation available. Actuator mounting flanges, unless otherwise specified, are in full accordance with ISO 5211.
- Forged Body

Vent Connections:

- Integral Vent Valve – Needle Type, Screwed Bonnet or Flanged Bonnet (OS&Y)
- Screwed Vent Valve – Ball Valve

3 Piece Design, Flanged Style



3 Piece Design, Flanged Style - Features

- Bore Size 1" through 6"
- Floating Ball Design (Bore Size 1" through 2")
- Trunnion Ball Design (Bore Size 2" through 6")
- Non Standard Length face-to-face dimensions
- Flanged Connections acc. to ASME B16.5
- Handle lockable and removable, Gear Box Operation as Standard. Actuator mounting flanges, unless otherwise specified, are in full accordance with ISO 5211.
- Forged Body

Vent Connections:

- Integral Vent Valve – Needle Type, Screwed Bonnet or Flanged Bonnet (OS&Y)
- Screwed Vent Valve – Ball Valve

Further Vent Connections for Ball Valves with Bore Size from 3" up to 6":

- Flanged Vent Valve – Ball Valve
- Flanged Double Block & Bleed Valve (VariAS-Block)
- Flanged Monoflange



Your Benefits At A Glance

- **MADE IN GERMANY**

The Taurus Series is designed, developed, manufactured and tested in Germany and certified by TÜV Süd.

- **STATE-OF-THE-ART VALVES**

Taurus are state-of-the-art valves and developed and reengineered using the latest design and simulating methods paired with decades of experience.

- **HIGH-QUALITY RAW MATERIALS**

Valve Body raw materials are sourced basically from Europe or North America.

- **ALL TAURUS TYPES MEET THE FOLLOWING REQUIREMENTS BY DEFAULT:**

- Fire Safe tested and certified acc. to API 607 and ISO 10497
- Tested and certified for Fugitive Emissions acc. to ISO 15848-1
- NACE MR0175 and ISO 15156
- Pressure Equipment Directive (PED)
- API 6D / ISO 14313
- ASME B16.34

- **FULL BORE**

We offer a 'real' Full Bore Valve according to API 6D / ISO 14313.

Some manufacturers fall below these minimum dimensions and offer it anyway as "Full Bore", although the bore size diameter do not meet the minimum requirements.

- **SHORT FACE-TO-FACE LENGTH**

These valves meet the face-to-face requirements of ASME B16.10 (where feasible) and can therefore replace an existing ball valve or double block & bleed valve. This short and compact design results in less space requirements and less weight.

- **HIGH-QUALITY MATERIALS**

Use of high-quality materials for maximum performance:

- Where necessary, PEEK as seat material and Duplex as ball material are provided.
- Stems are generally made in XM-19, an austenitic stainless steel grade, which has a greater corrosion resistance and higher yield strength than 316 stainless steel.
- All other trim materials and all non-wetted parts are provided in 316 stainless steel (or superior). Therefore the use in corrosive or salty environment is feasible.
- Materials of actuators and gearboxes acc. to manufacturer's standard.
- For valves in special alloys all wetted parts are made in the special alloy material.



Product Specification At A Glance

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	Bore Size	Flange Class	Bore Size Diameter	2 Piece Design		3 Piece Design		Standard	
				Operation	Face-to-Face Length ⁽³⁾	Operation	Face-to-Face Length ⁽³⁾	Seat Material ⁽⁴⁾	Ball Material
Floating Ball	1"	150	1" 25 mm	Lever	MS	Lever	MS	PTFE	Duplex
		300							
		600							
		900 / 1,500 ⁽¹⁾			ASME B16.10 ⁽²⁾				
		2,500							
	1 1/2"	150	1 1/2" 38 mm	Lever	MS	Lever	MS	PTFE	Duplex
		300							
		600							
		900 / 1,500 ⁽¹⁾			ASME B16.10 ⁽²⁾				
		2,500							
	2"	150	2" 50 mm	Lever	MS	Lever	MS	PTFE	Duplex
		300		ASME B16.10					
600		Gearbox			Gearbox				
900 / 1,500 ⁽¹⁾									
2,500									
Trunnion Ball	2"	150	2" 50 mm	Lever	MS	Lever	MS	PTFE	Duplex
		300							
		600							
		900 / 1,500 ⁽¹⁾			ASME B16.10				
	2,500	42 mm	Gearbox	Gearbox					
	3"	150	3" 74 mm			Gearbox	MS	PEEK	Duplex
		300							
		600							
		900							
		1,500							
	2,500	62 mm							
	4"	150	4" 100 mm			Gearbox	MS	PEEK	Duplex
		300							
		600							
		900							
		1,500							
	2,500	87 mm							
	6"	150	6" 150 mm			Gearbox	MS	PEEK	Duplex
		300							
		600							
900									
1,500		144 mm							
2,500	131 mm								

1) Class 900 Valves are equal to Class 1,500.

2) ASME B16.10 does not indicate ball valve face-to-face dimension for Class 1,500 / 2,500 and sizes up to 1 1/2". Therefore these types correspond to the overall dimensions of gate valves – Those have typically the same face-to-face dimensions in ASME B16.10 as ball valves.

3) MS = Manufacturer's Standard

4) PEEK = Modified PEEK
PTFE = Reinforced PTFE

Ordering Information

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
		T	D	3	D	L	-	2	F	C	2	F	C	-	Y	0	0	1	
T	Taurus																		
Bore Size																			
Trunnion Ball Design																			
Floating Ball Design																			
D	2" H 4" K 6"	1	1"	2	2"														
F	3" J 5"	6	1 1/2"																
Design																			
2	2 Piece Design																		
3	3 Piece Design																		
Type / Configuration																			
D	Double Block & Bleed / 2 Ball Isolates, Needle Vent (Integral Valve alt. Flanged Monoflange)																		
E	Double Block & Bleed / 2 Ball Isolates, Ball Vent (Ball Valve or Double Block & Bleed Valve)																		
B	Block & Bleed / Ball, Needle Vent (Integral Valve alt. Flanged Monoflange)																		
C	Block & Bleed / Ball, Ball Vent (Ball Valve or Double Block & Bleed Valve)																		
Body Material																			
C	A 105	D	Super Duplex UNS S32750																
L	Carbon Steel LF2	V	Alloy 625 UNS N06625																
S	1.4404 / 1.4401 / 316 / 316L	1	Alloy 825 UNS N08825																
F	Duplex UNS S31803																		
Inlet Connection																			
Flange Size																			
1	1" 3 3"																		
C	1 1/2" 4 4"																		
2	2" 6 6"																		
Flange Type																			
F	RF																		
T	RTJ																		
Flange Class																			
A	150 D 900																		
B	300 E 1,500																		
C	600 F 2,500																		
Outlet Connection																			
Flange Size																			
1	1" 3 3"																		
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Flange Type																			
F	RF																		
T	RTJ																		
Flange Class																			
A	150 D 900																		
B	300 E 1,500																		
C	600 F 2,500																		
Vent Connection																			
N	Integral Vent Valve – Needle Type, Screwed Bonnet	B	Flanged Vent Valve – Ball Valve																
Y	Integral Vent Valve – Needle Type, Flanged Bonnet (OS&Y)	V	Flanged Double Block & Bleed Valve (VariAS-Block)																
K	Screwed Vent Valve – Ball Valve	M	Flanged Monoflange																
Followed by a Sequential Number																			
Features and Options to be specified respectively are available																			
Trim Material	Stem Seal	Weld Inlay	Operation	Ball Seat Material	General Options														
Stainless Steel Trim	FKM O-Ring	316 Weld Inlay	Actuated	Carbon Filled PTFE	NACE Specification														
Duplex Trim	HNBR O-Ring	625 Weld Inlay	Gear Operated	Devlon	Fire Safe														
			Lever Operated	PEEK	Blind Flange on Vent														
			Lockable Handle/Lever	Metal Seated															
			Anti-Tamper Vent Valve																

YOUR GLOBAL PARTNER

for Instrumentation and
Double Block & Bleed Valves



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