# **Piping Ball Valves**





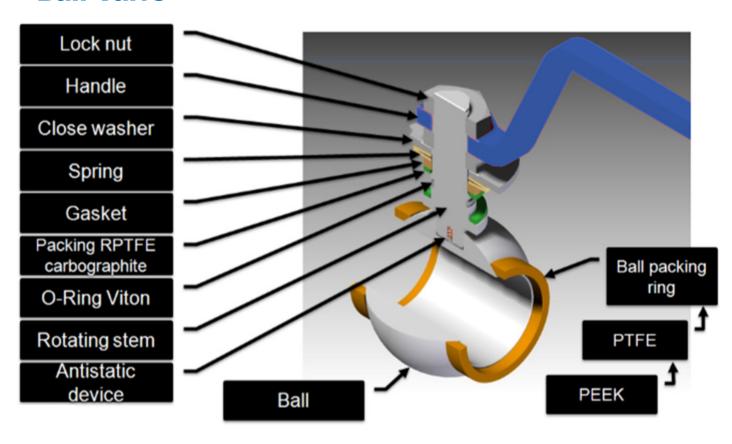








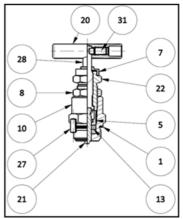
#### **Ball Valve**



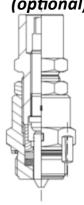
#### **Features**

- AISI 316 handle and stop pin as standard for corrosion resistance
- Blowout proof one-piece stem spindle
- Fugitive Emissions to ISO 15848-1
- Super finished ball for low operating torque and long life
- Firesafe to BS 6755 PART. 2
- Standard temperature range:
  - ⇒ High temperature: -29°C/+325°C (-20°F/+617°F)
  - ⇒ Low temperature: -46°C/+120°F (-50°F/+248°F)
  - $\Rightarrow$  Room temperature: -29°C/+180°C (-20°F/+356°F)

### Vent (Needle)



Antitamper Bonnet (optional)

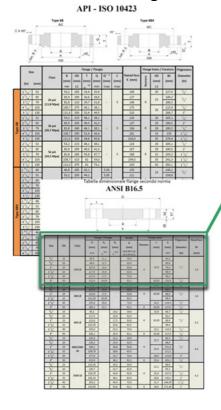


## **Standards**

#### Standards applicable to our Monoblock DBB valves

API 6D	Specification for Pipeline Valves (Gate, Plug, Ball and Check Valves)
API 6A	Specification for Wellhead and Christmas Tree Equipment
ASME B16.34	Steel Valves - Flanged & Buttwelding Ends
ASME B16.10	Face-to-Face Dimensions of Ferrous Valves
API 598	Valve Inspection & Testing
EN ISO 10497 Ed. 2010 API 607 Ed. 2010	Firesafe

### Flange sizes of Sami DBB comply with ASME and API standards



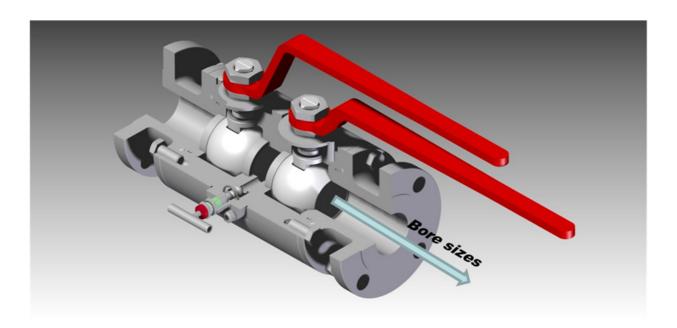
		Flange / Flangia		gia	Risalto	FI	ange holes		Prigioniero	Rised face	
Size	DN	Class	D (mm) ±1,6	b <sub>1</sub> (mm) +3,2	b <sub>2</sub> (mm) +3,2	g (mm) ±0,8 [Rf=1,6] ±0,4 [Rf=6,3]	Numero	l (mm)	k (mm) ±0,8	Diametro (in)	Rf (mm)
1/2"	15		89,9	11,1		34,9			60,3		
3/4"	20		98,4	12,7	1	42,9	1		69,8		
1"	25	150 LB	107,9	14,3	1	50,8	4	15,9	79,4	1/2"	1,6
1 1/4"	32	130 LB	117,5	15,9	· .	63,5	1 "		88,9		1,0
1 1/2"	40		127,0	17,5	1	73,0	1		98,4		
2"	50		152.4	19.05	1	92.1	1	19.05	120.6	5/11	

#### Flange Finish

Our standard flange finish is RF Smooth Finish.

Other flange ends and finishes are also available upon request.

### **Bore Sizes**



Nominal size		Full Bore	Reduced Bore	ANSI Rating	
DN 15	1/2"	13 mm		150÷2500 Lbs	
DN 20	3/4"	19 mm	13 mm	150÷2500 Lbs	
DN 25	1"	25 mm	19 mm	150÷2500 Lbs	
DN 40	1 1/2"	38 mm	25 mm	150÷2500 Lbs	
DN 50	2"	49 mm	38 mm	150÷1500 Lbs	
DN 30	2"	42 mm	30 111111	2500 Lbs	
DN 75	3"	74 mm	42 mm	150÷1500 Lbs	
DIN 73	3	62 mm	49 mm	2500 Lbs	

#### **FULL BORE**

The diameter of the ball bore is equal to the diameter of the flange bore.

#### **REDUCED BORE**

The diameter of the ball bore is REDUCED compared to the one of the flanged bore.

#### **Example**

A valve 1 " Full Bore has a bore size of 25 mm.

A valve 1 " Reduced Bore has a bore size of 19 mm.

## **How to order: Piping Ball Valves**

Version	Bore	Trim	Configur ation	Rating	Inlet Size	End Type	Outlet Size	Material	Options
R	M	1	Α	1	Ε	В	Е	Α	Α

Version		
R	Reduced Bore	
F	Full Bore	

	Bore					
Α	BALL Ø 13 Flanged/Threaded	1	BALL Ø 25 Threaded/Threaded			
В	BALL Ø 13 Flanged/Flanged	L	BALL Ø 38 Flanged/Threaded			
С	BALL Ø 13 Threaded/Threaded	M	BALL Ø 38 Flanged/Flanged			
D	BALL Ø 19 Flanged/Threaded	z	BALL Ø 42 Flanged/Flanged			
Е	BALL Ø 19 Flanged/Flanged	0	BALL Ø 42 Threaded/Threaded			
F	BALL Ø 19 Threaded/Threaded	Р	BALL Ø 49 Flanged/Threaded			
G	BALL Ø 25 Flanged/Threaded	ď	BALL Ø 49 Flanged/Flanged			
Н	BALL Ø 25 Flanged/Flanged					

Trim			
1	Block - Bleed - Block		
3	Block - Block - Bleed		
5	Block - Bleed		
7	Block - Block		
9	Block		

	Configuration
Α	BALL, NEEDLE, BALL
Е	BALL, NEEDLE
F	BALL, BALL
0	BALL
R	BALL, BALL, BALL

F	Rating
1	150 lbs
2	300 lbs
3	600 lbs
4	900 lbs
5	1500 lbs
6	2500 lbs
7	6,000 psi
8	10,000 psi
Α	API 5K
В	API 10K
С	API 15K

Ir	ılet Size
Α	1/2"
В	3/4"
С	1"
D	1 1/2"
Е	2"
F	3″
1	1 13/16"
2	2 9/16"

Α	
	RF Stock Finish
В	RF Smooth Finish
С	RF Concentring
D	RF Spiral
Е	RTJ Ring Joint
F	FF Stock Finish
G	FF Smooth Finish
Н	FF Concentric
I	FF Spiral
J	NPT-F
L	BSP
М	BSPT
N	S.W.
0	B.W.

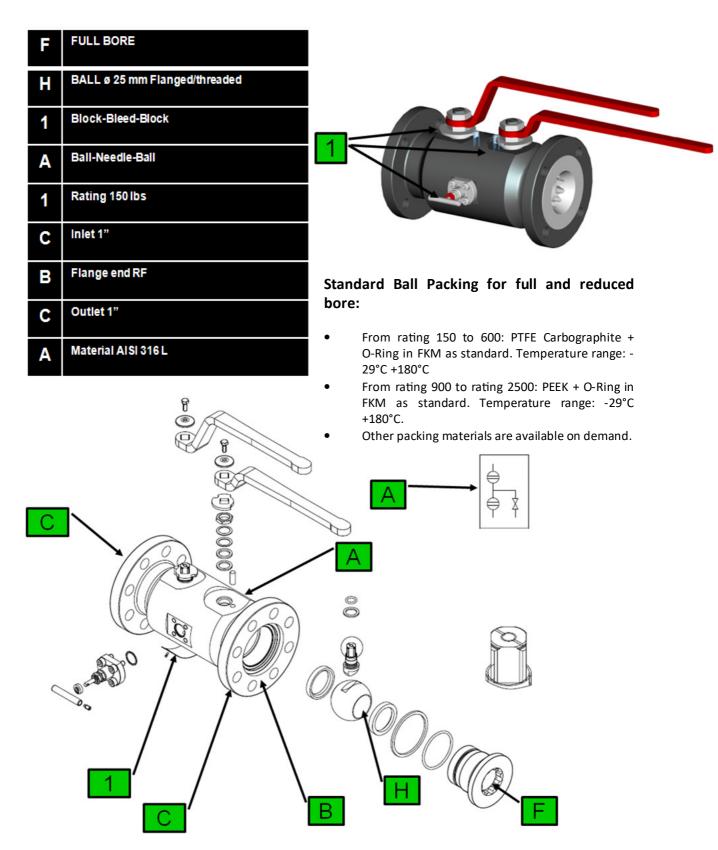
(	<b>Outlet Size</b>		
1	1/4" NPT		
2	1/2" NPT		
3	3/4" NPT		
4	1" NPT		
5	1 1/2" NPT		
Α	1/2"		
В	3/4"		
С	1"		
D	1 1/2"		
Е	2"		
F	3"		
P	1 13/16"		
Q	2 9/16"		

Material			
Α	Aisi 316L		
С	Aisi 316 Ti		
D	Monel 400		
E	Duplex F51		
G	Super Duplex F55		
Н	Hastelloy C276		
I	Inconel 625		
J	Incolloy 825		
L	Titanium		
М	A350-LF2		
N	F44		
S	Aisi 321		

Options			
Α	Drain / Vent 1/4"		Male/Female
В	Drain / Vent 3/4" R		Female/Male
С	Locking Device on balls		Male/Male
D	Locking Device on needles	Т	Double Outlet Threaded
Е	Drain/Vent Anti-Tamper	x	100% 316L
L	Explosion Proof O-Ring	Z	Zinc-Bicromated Bolts and Nuts
0	2 Piece design	1	Low Temperature resistant
Р	3 Piece design	2	High Temperature resistant

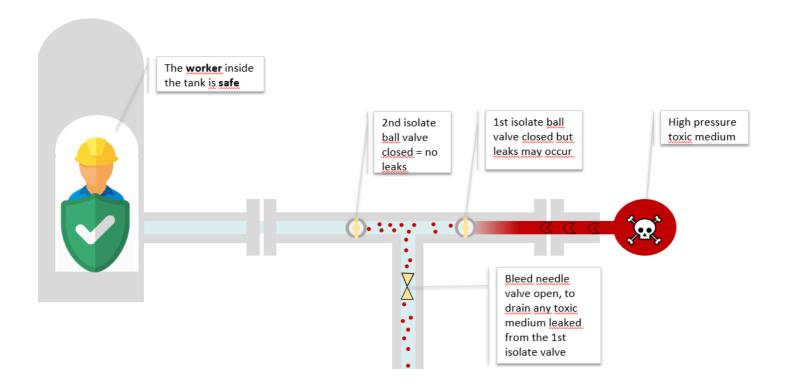
## **Piping Ball Valves: main features**

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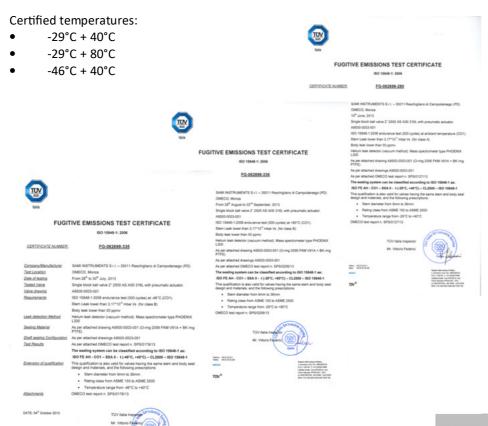


## **Double Block & Bleed Configuration**

Double Block&Bleed valves provide more safety than a single block and bleed or single block configuration: the 2 block valves prevent the fluid from passing and getting in contact with the maintenance team, while the vent, allows the fluid to be safely drained from the flow.



Sami piping single and double block & bleed valves are certified for Fugitive Emissions to EN ISO 15848-1.



## **Customized Piping DBB**

API 5K -10K -15K

Manual DBB valve trunnion mounted for high pressure application



#### **Actuated DBB valve**

Manual actuated DBB valve trunnion mounted for high pressure application



## **Customized Projects**

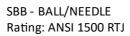


DBB - O.S.&Y./NEEDLE/NEEDLE

API 10K

Inlet: 113/16" Outlet: 1/2" NPT-F Material: DUPLEX F51

Painted



Inlet: 1 1/2" Outlet: 1 1/2" Material: A305 LF2

Painted





DBB - BALL/NEEDLE/BALL

API 10K Inlet: 2 1/16" Outlet: 2 1/16" Material: DUPLEX F51

Painted

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