

# BALL VALVE CATALOGUE

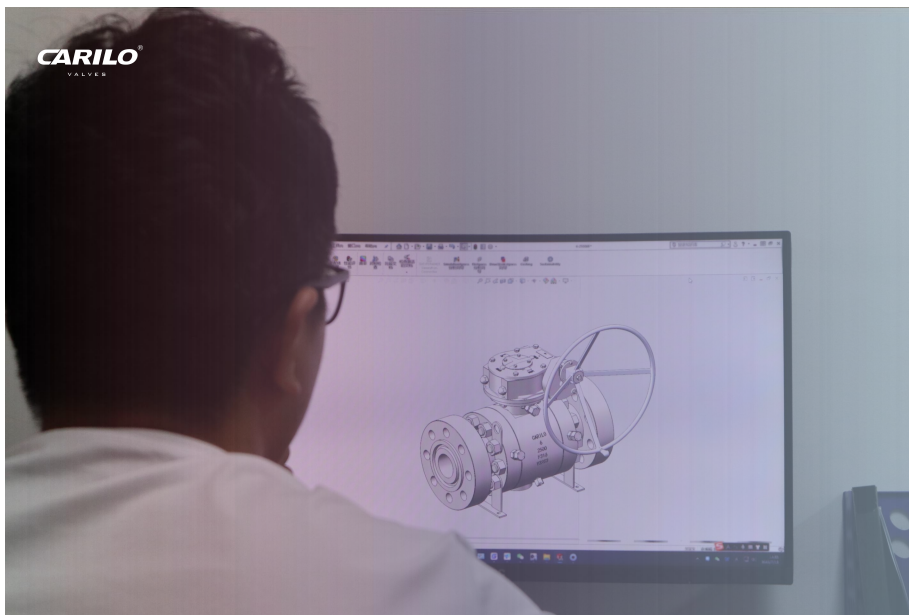


***ENGINEERED FOR RELIABILITY***

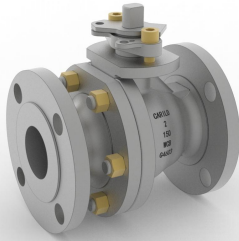
# BALL-Series

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Introducing CARILO's **Ball Valves**, meticulously crafted to meet the demanding standards of **API 6D**. Ideal for **Oil & Gas** applications, they ensure secure shut-off at varying pressures. With a wide range of designs, materials, and sizes, our valves cater to diverse needs. Engineered with advanced features, they guarantee reliability even in critical conditions. Trust CARILO for robust, high-performance, and adaptable valve solutions.

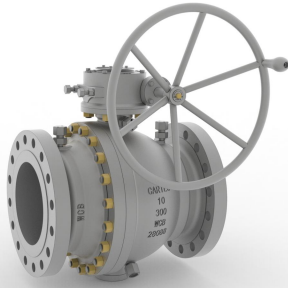


*Our design department comprises highly trained and experienced engineers who operate the most advanced engineering technologies and tools to ensure proper product performance since the earlier stages of design.*



## Casting Bolted Bonnet Floating Ball Valve

- Casting body
- Size: NPS 1/2"-NPS 8"/ DN15-DN200
- Pressure ratings: Class150-Class600/ PN16-PN100
- Bi-direction
- Anti-blow-out stem design
- Soft or metal seated
- Double block and bleed
- Anti statics device
- Operation: Lever, gear, Pneumatic, Electric, Pneumatic-hydraulic, Electro-hydraulic



## Casting Bolted Bonnet Trunnion Mounted Ball Valve

- Casting body
- Size: NPS 2"-NPS 40"/ DN50-DN1000
- Pressure ratings: Class150-Class900/ PN16-PN150
- Bi-direction
- Anti-blow-out stem design
- Soft or metal seated
- Double block and bleed
- Anti statics device
- Operation: Lever, gear, Pneumatic, Electric, Pneumatic-hydraulic, Electro-hydraulic



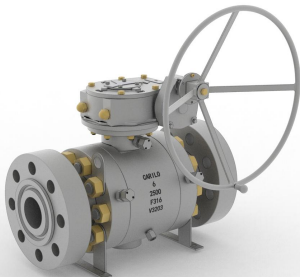
## Forged Bolted Bonnet Floating Ball Valve

- Forged body (2 or 3 pieces split body)
- Size: NPS 1/2"-NPS 8"/ DN15-DN200
- Pressure ratings: Class150-Class2500/ PN16-PN420
- Bi-direction
- Anti-blow-out stem design
- Soft or metal seated
- Double block and bleed
- Anti statics device
- Operation: Lever, gear, Pneumatic, Electric, Pneumatic-hydraulic, Electro-hydraulic



## Forged Bolted Bonnet Trunnion Mounted Ball Valve

- Forged body (2 or 3 pieces split body)
- Size: NPS 2"-NPS 42"/ DN15-DN1200
- Pressure ratings: Class150-Class2500/ PN16-PN420
- Bi-direction
- Anti-blow-out stem design
- Soft or metal seated
- Double block and bleed, DIB-1 or DIB-2
- Anti statics device
- Operation: Lever, gear, Pneumatic, Electric, Pneumatic-hydraulic, Electro-hydraulic



# BALL-Series

	<p><b>Forged steel floating ball valve</b></p> <ul style="list-style-type: none"> <li>➤ Forged body</li> <li>➤ Size: NPS 1/2"-NPS 2"/ DN15-DN50</li> <li>➤ Pressure ratings: Class150-Class2500/ PN16-PN420, 1000PSI, 2000PSI</li> <li>➤ End connection: NPT/ SW/ BW</li> <li>➤ Bi-direction</li> <li>➤ Anti-blow-out stem design</li> <li>➤ Soft or metal seated</li> <li>➤ Double block and bleed</li> <li>➤ Anti statics device</li> <li>➤ Operation: Lever, gear, Pneumatic, Electric, Pneumatic-hydraulic, Electro-hydraulic</li> </ul>
	<p><b>Forged steel DBB ball valve (Twin ball design)</b></p> <ul style="list-style-type: none"> <li>➤ Forged body</li> <li>➤ Size: NPS 2"-NPS 24"/ DN15-DN600</li> <li>➤ Pressure ratings: Class150-Class2500/ PN16-PN420</li> <li>➤ End connection: RF/ RTJ</li> <li>➤ Bi-direction</li> <li>➤ Anti-blow-out stem design</li> <li>➤ Soft or metal seated</li> <li>➤ Double block and bleed</li> <li>➤ Anti statics device</li> <li>➤ Operation: Lever, gear, Pneumatic, Electric, Pneumatic-hydraulic, Electro-hydraulic</li> </ul>

## MATERIAL SELECTION

BODY	BALL	SEAT	STEM	SEALS	BOLTING
<ul style="list-style-type: none"> <li>● <b>CARBON STEEL</b></li> <li>› A105</li> <li>› WCB</li> <li>› LCC</li> <li>› LF2</li> <li>› LF3</li> <li>› F60</li> <li>● <b>STAINLESS STEEL</b></li> <li>› 304</li> <li>› 316</li> <li>› 321</li> <li>› 347</li> <li>● <b>DUPLEX SS SUPERDUPLEX SS</b></li> <li>● <b>NICKEL ALLOYS</b></li> <li>› Inconel</li> <li>› Incoloy</li> <li>› Monel</li> <li>● <b>TITANIUM</b></li> <li>● <b>BRONZE</b></li> <li>› C95800</li> <li>› C63200</li> </ul>	<ul style="list-style-type: none"> <li>● <b>CARBON STEEL</b></li> <li>› A105</li> <li>› LF2</li> <li>› LF3</li> <li>› F60/F65</li> <li>● <b>STAINLESS STEEL</b></li> <li>› 304</li> <li>› 316</li> <li>› 321</li> <li>› 347</li> <li>› 13Cr</li> <li>› 17-4PH</li> <li>● <b>DUPLEX SS SUPERDUPLEX SS</b></li> <li>● <b>NICKEL ALLOYS</b></li> <li>› Inconel</li> <li>› Incoloy</li> <li>› Monel</li> <li>› Stellite</li> <li>● <b>TITANIUM</b></li> <li>● <b>BRONZE</b></li> <li>› C95800</li> <li>› C63200</li> </ul>	<ul style="list-style-type: none"> <li>● <b>SOFT SEATING</b></li> <li>› RPTFE</li> <li>› NYLON</li> <li>› PEEK</li> <li>› PCTFE</li> <li>› DEVLON</li> <li>● <b>METAL SEATING</b></li> <li>› TCC</li> <li>› ENP</li> <li>› CCC</li> <li>› Ni-SiC</li> <li>› WC</li> <li>› Stellite</li> </ul>	<ul style="list-style-type: none"> <li>● <b>CARBON STEEL</b></li> <li>› 4140</li> <li>› LF3</li> <li>› F60/F65</li> <li>● <b>STAINLESS STEEL</b></li> <li>› 304</li> <li>› 316</li> <li>› 13Cr</li> <li>› 17-4PH</li> <li>› FXM-19</li> <li>● <b>DUPLEX SS SUPERDUPLEX SS</b></li> <li>● <b>NICKEL ALLOYS</b></li> <li>› Inconel</li> <li>› Monel</li> <li>● <b>TITANIUM</b></li> <li>● <b>BRONZE</b></li> <li>› C95800</li> <li>› C63200</li> </ul>	<ul style="list-style-type: none"> <li>› RPTFE</li> <li>› PTFE+Elgiloy</li> <li>› FKM</li> <li>› HNBR</li> <li>› FFKM</li> <li>› Graphite</li> <li>› VITON GLT</li> </ul>	<ul style="list-style-type: none"> <li>● <b>CARBON STEEL</b></li> <li>› B7/2H</li> <li>› L7/7</li> <li>› B7M/2HM</li> <li>› L7M/7M</li> <li>● <b>STAINLESS STEEL</b></li> <li>› B8/8</li> <li>› B8M/8M</li> <li>› 660</li> <li>● <b>SUPERDUPLEX SS</b></li> <li>● <b>NICKEL ALLOYS</b></li> <li>› Inconel</li> <li>● <b>TITANIUM</b></li> </ul>

# BALL-Series

## CARILO VALVE PRODUCT STANDARDS AND CUSTOMER SPECIFIC TESTS CAPABILITY

STANDARD TESTS	OPTIONAL TESTS
<ul style="list-style-type: none"> <li>• Hydrostatic Shell Test</li> <li>• Hydrostatic Seat Test</li> <li>• Low Pressure Gas Test</li> <li>• Cavity Relief Test</li> <li>• Visual Check and Dimension Test</li> <li>• Paint Thickness Test</li> <li>• Wall Thickness Test</li> </ul>	<ul style="list-style-type: none"> <li>• Torque Test</li> <li>• Double Isolation and Bleed Test</li> <li>• Double Block and Bleed Test</li> <li>• High Pressure Gas Test</li> <li>• Fugitive Emission Test</li> <li>• Low Temperature/Cryogenic Test</li> <li>• High Temperature Test</li> <li>• Firesafe Test</li> <li>• Hardness Test</li> <li>• Magnetic Particle Test</li> <li>• Ultrasonic Test</li> <li>• Liquid penetration Test</li> <li>• Radiographic Test</li> <li>• Others</li> </ul>



## APPLICABLE DESIGN STANDARDS

DESIGN	BODY THICKNESS	FLANGE END DIMENSION	FACE-TO-FACE DIMENSIONS	FIRESAFE	OTHERS
API 6D API 608	ASME B16.34 EN 12516-1	ASME B16.5 DIN EN 1092-1	ASME B16.10	API 607	<ul style="list-style-type: none"> <li>• Weld ends: ASME B16.25</li> <li>• Sour service: NACE MR-0175</li> </ul>

# BALL-Series



Casting trunnion mounted ball valve, 3" 300LB, soft seated, CS/SS,  
Forged trunnion mounted ball valve, 16" 300LB, soft seated, CS/SS, Pneumatic, offshore, Argentina



Forged trunnion mounted ball valve, 4" 900LB, c/w gear operator onshore, UAE



Forged trunnion mounted ball valve, DIB-1, 30" 150LB, LF2 CLASS 1, c/w gear operator petrochemical service, Dubai



Forged Trunnion Mounted Ball Valve, DN200/ DN100 PN63, CS+ENP, onshore, Asia



Forged Trunnion Mounted Ball Valve, 12" 600LB, Soft Seated, Liquefied Natural Gas, Mexico



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Zhejiang Carilo Valve Co., Ltd., established in 2000, is a young and dynamic company specialised in the manufacture and sale of high quality industrial valves. Our clients and end-users are particularly operating in the market segments oil & gas, power, paper& pulp, chemical and petrochemical, both on-shore and off-shore.

All above Valves can have either Flange End Connection or Screwed / Socket Weld / Butt Weld End as per ANSI B 16.10 / ANSI 16.11/IS/BS/DIN/JIS standards. Material of construction is selected based on Pressure / Temperature limits and corrosion resistance . This will be as ASME/ ANSI B 16.34 standard. Testing is Carried out as per API/BS/DIN standard.

The product range, growing all the time, is only sourced through ISO approved suppliers, has helped established CARILO as long standing supply partners to major companies in various industries . These include petro-chemical, industrial gas, chemical, power generation, refining, pulp& paper...

CARILO staff treats every detail carefully and takes valves as our babies . Due to our superior quality, competitive price, and satisfying service, our valves are widely used industrial oil & gas pipeline throughout the world, either under the brand of CARILO or OEM brands . And most our OEM customers are from Europe. CARILO' s goal is to produce zero-defect and long-life span products. We are ready to make constant improvements towards this goal to minimize the cost for all our customers.