batuVALVE®

PRODUCT CATALOGUE

Your Solution Partner

1978 - ∞

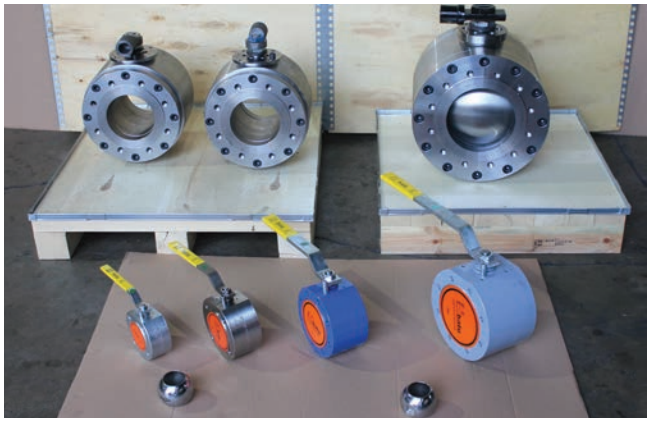
Batusan, with the trademark BatuValve started manufacturing Ball Valves in 1978. Since then, continues to serve the industry with dedication to quality, product innovation and commitment to customer service. We manufacture all our products %100 in our production facility in Turkey. We use European originated raw materials. Our trust in our products allows us to provide 2 year unlimited warranty.

Our main product line is Ball Valves. We also produce Check valves, Strainers and Flow Indicators. Being a leader manufacturer in Turkey since 1978. Apart from the Turkish industry, we export our products with pride to Germany, Bulgaria, Serbia, Poland, Croatia, Bosnia-Herzegovina, Greece, Lebanon, Saudi Arabia, Russia, Iran, Egypt, Yemen, Afghanistan, Austria, Vietnam, Equador, Colombia Brasil, Ukraine, France, Algeria, Morocco, Tunisia, Gabon and so on. We also produce OEM products for some of the most known global brands from Italy, Germany, Austria, etc.

Our products have been installed throughout the world, handling a wide variety of applications in the Gas, Oil, Refining, Chemical, Food, Power Generation and Pipeline Transmission industries.

We have been emphasizing R&D department and always expanding our product line serving the needs of our customers. We have most of the Industrial valve manufacturing certificates, including;

ISO 9001: 2015, API 6D “0695”, TSE, TS 9809, TSE EN 331, TSE 3148, TSE TS 16767, TSE TS 11494, TOV SOD CE 0036, TOV iT 18 ATEX 056 AR, TA LUFT, EN 14432, API 6FA FIRE SAFE, API 607, FIRE SAFE, ISO 10497 FIRE SAFE, EAC-1, EAC-2, ROS TEKHNADZOR, TH 02, HYGIENE, GAS, GAZMER, EGAS, BELARUS



API 6D SPLIT BODY FLOATING/TRUNNION BALL VALVE

DIMENSIONS	ASME B 16.10 (1/2" - 56")
CONNECTIONS	ASME B 16.5, ASME B 16.25, ASME B 1.20.1
WORKING PRESSURE	CLASS 150 (PN 20), CLASS 300 (PN 50), CLASS 600 (PN 100), CLASS 900 (PN 150), CLASS 1500 (PN 250), CLASS 800 Lbs (PN 55), CLASS 2500 (PN 420)
WORKING TEMPERATURE	-46 °C / .+210 °C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

API 6D PIG BALL VALVE LAUNCHER AND RECEIVER

DIMENSIONS	BATUSAN SPECIAL (2" - 24")
CONNECTIONS	ASME B 16.5
WORKING PRESSURE	CLASS 150 (PN 20), CLASS 300 (PN 50), CLASS 600 (PN 100), CLASS 900 (PN 150), CLASS 1500 (PN 250), CLASS 2500 (PN 420)
WORKING TEMPERATURE	-46 °C / .+210 °C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

API 6D DOUBLE BLOCK AND BLEED (DBB) BALL VALVE

DIMENSIONS	ASME B 16.10 (1/2" - 24")
CONNECTIONS	ASME B 16.5
WORKING PRESSURE	CLASS 150 (PN 20), CLASS 300 (PN 50), CLASS 600 (PN 100), CLASS 900 (PN 150), CLASS 1500 (PN 250), CLASS 2500 (PN 420)
WORKING TEMPERATURE	-46 °C / .+210 °C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

API 6D FULLY WELDED BALL VALVE

DIMENSIONS	ASME B 16.10 (2" - 24")
CONNECTIONS	ASME B 16.5, ASME B 16.25, DIN EN 1092-1
WORKING PRESSURE	CLASS 150 (PN 20), CLASS 300 (PN 50), CLASS 600 (PN 100)
WORKING TEMPERATURE	-46 °C / .+210 °C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

BURAK TYPE WAFER MONO-BLOCK BALL-VALVE

DIMENSIONS	BATUSAN SPECIAL
CONNECTIONS	EN 1092, ASME B 16.5
WORKING PRESSURE	PN 16 - 40, CLASS 150(PN 20), CLASS 300(PN 50)
WORKING TEMPERATURE	-46 °C / +210 °C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases, Asphalt, Good and Chemical Ind.

NATURAL GAS BALL VALVE

DIMENSIONS	TS EN 331, TS 9809, EN 558
CONNECTIONS	EN 1092 - 1 / 2, EN 10226-1
WORKING PRESSURE	PN 16-40, MOP 5-20
WORKING TEMPERATURE	-29 °C / .+210°C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

EU BALL VALVE

DIMENSIONS	EN 558, BATUSAN SPECIAL
CONNECTIONS	EN 1092-1, EN 10226-1
WORKING PRESSURE	PN 16 - 40
WORKING TEMPERATURE	--46 °C / +210 °C
USAGE AREAS	Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

STEEL BALL VALVE

DIMENSIONS	BATUSAN SPECIAL, EN 558, EN 558 / DIN 3202 F4-F5, TS EN 12982, ASME B 16.10
CONNECTIONS	EN 1092-1, EN 10226-1, ASME B 16.25, ASME B 16.11
WORKING PRESSURE	PN 16 - 40
WORKING TEMPERATURE	-29 °C / .+210 °C
USAGE AREAS	Water, Hot Water, Steam, Pressurized Air

HIGH PRESSURE EUROPEAN NORM BALL VALVE

DIMENSIONS	BATUSAN SPECIAL, EN 558
CONNECTIONS	EN 1092-1, EN 10226-1
WORKING PRESSURE	PN 64, PN 100, PN 150
WORKING TEMPERATURE	-46 °C / +210 °C
USAGE AREAS	Water, Hot Water, Steam, Pressurized Air

CAST IRON WATER BALL VALVE

DIMENSIONS	TS 3148 / EN 558, EN 10226-1
CONNECTIONS	EN 1092-2
WORKING PRESSURE	PN 16, PN 25
WORKING TEMPERATURE	-29 °C / +210 °C
USAGE AREAS	Water, Hot Water, Steam, Pressurized Air

3 WAY BALL VALVE

DIMENSIONS	BATUSAN SPECIAL, EN 558
CONNECTIONS	EN 1092 - 1, EN 10226-1
WORKING PRESSURE	PN 16 - 40
WORKING TEMPERATURE	-29 °C / +210 °C
USAGE AREAS	Water, Hot Water, Steam, Pressurized Air

JACKET BALL VALVE

DIMENSIONS	BATUSAN SPECIAL, EN 558
CONNECTIONS	EN 1092 - 1, EN 10226-1
WORKING PRESSURE	PN 16 - 40
WORKING TEMPERATURE	-29 °C / +210°C
USAGE AREAS	Asphalt, Good ang Chemical Ind.

CHECK VALVE

DIMENSIONS	BATUSAN SPECIAL, EN 558
CONNECTIONS	EN 1092-1, EN 1092-2, EN 10226-1
WORKING PRESSURE	PN 16 - 40
WORKING TEMPERATURE	-29 °C / .+300 °C
USAGE AREAS	Water, Hot Water, Steam, Pressurized Air, Gases

STRAINER (FILTER)

DIMENSIONS	TS 11494 / EN 558, ASME B 16.10
CONNECTIONS	EN 1092 - 1 / 2, ASME B 16.5
WORKING PRESSURE	PN 16 - 25 - 40, CLASS 300 (PN 50)
WORKING TEMPERATURE	-29 °C / .+400 °C
USAGE AREAS	Water, Hot Water, Steam, Non-Flammable Gases, Natural Gas, LPG-LNG, Fuel-Oil, Pressurized Air and Other Gases etc.

FLOW INDICATOR

DIMENSIONS	BATUSAN SPECIAL, EN 558
CONNECTIONS	EN 1092-1, EN 1092-2, EN 10226-1
WORKING PRESSURE	PN 16 - 40
WORKING TEMPERATURE	-29 °C / .+180 °C
USAGE AREAS	Water, Good, Chemical, Air and Other Gases

NEEDLE VALVE

DIMENSIONS	BATUSAN SPECIAL, EN 558
CONNECTIONS	EN 1092-1, EN 10226-1
WORKING PRESSURE	PN 250
WORKING TEMPERATURE	-46 °C / .+250 °C
USAGE AREAS	Water, Hot Water, Steam, Pressurized Air

SPLIT BODY TRUNION BALL VALVE SPECIFICATIONS

Batu API 6D trunion ball valves are designed to include many features for you as a result of a detailed R&D study. Extra options are available upon request.

LOW TORQUE BALL VALVES

ANTI-BLOWOUT STEM DESIGN

ANTI STATIC DEVICE

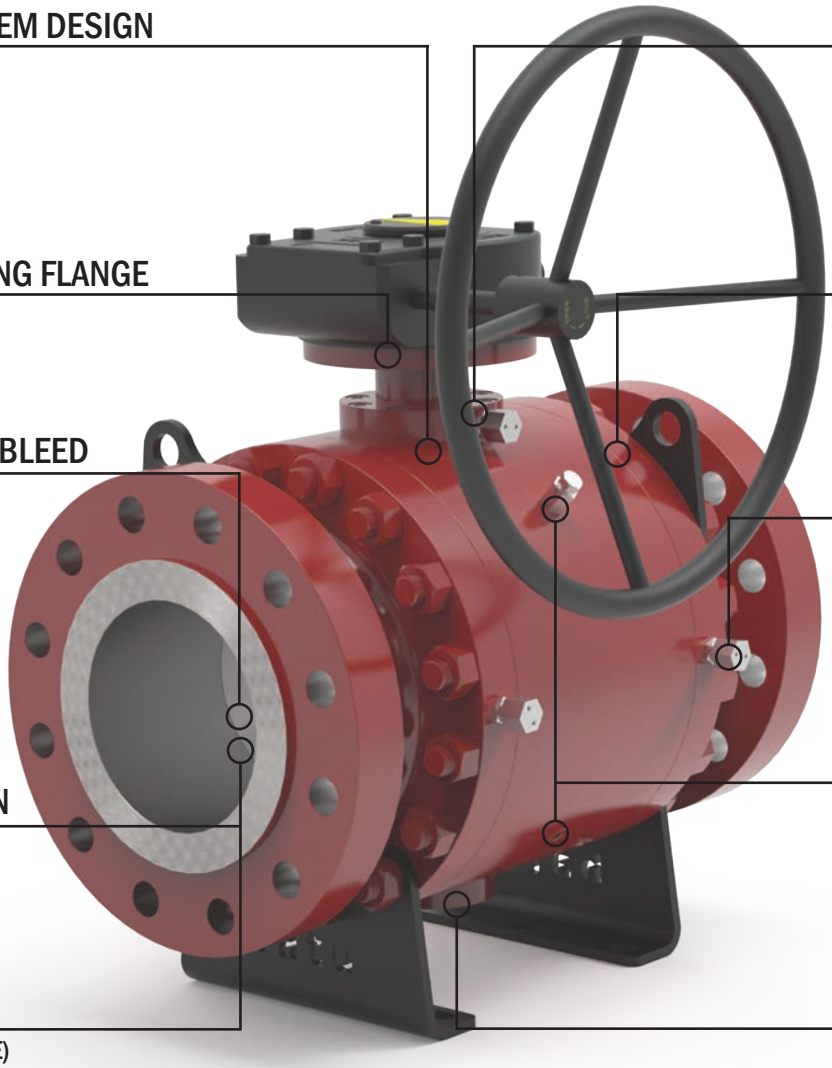
ISO 5211 MOUNTING FLANGE

LOW EMISSION VALVES

DOUBLE BLOCK & BLEED

* DBB
* DIB-1
* DIB-2

EMERGENCY SEALANT INJECTION



BODY DRAIN AND VENT

FIRE–SAFE DESIGN

SEAT

* Single Piston Effect (SPE)
* Double Piston Effect (DPE)

TRUNNION BALL

FEATURES	
DIMENSIONS	½" - 56"
CONNECTIONS TYPES	RF / RTJ / BW / SW
WORKING PRESSURE	ANSI 150 - 2500
WORKING TEMPERATURE	-46 °C - .+210 °C
OPERATION	LEVER / GEAR BOX / ACTUATOR

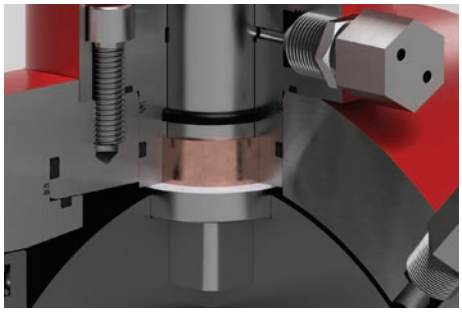
STANDARDS	
DESING	API 6D & ASME B16.34 & EN ISO 17292
DIMENSIONS	API 6D & ASME B16.10
CONNECTIONS	ASME B16.5 & ASME B16.47 Series A
FIRE-SAFE	API 6FA & API 607 & ISO 10497
TESTING	API 6D & API 598

TECHNICAL SPECIFICATIONS

FEATURE	
Trunnion Ball	Standard
Anti-Blowout Stem Design	Standard
Anti Statik Device	Standard
Fire Safe Design	Standard
ISO 5211 Mounting Flange	Standard
ASME B16.5 & ASME B16.47 Series A	Standard
Soft Seat Design	Standard
Primary Metal Secondary Soft Seat Design	On Request
Metal to Metal Seat Design	On Request
Single Piston Effect (SPE)	Standard
Double Piston Effect (DPE)	On Request
Single/ Double Piston Effect Combination	On Request
Double Block and Bleed Design (DBB)	Standard
Double Isolation and Bleed (DIB 1) Design	On Request
Double Isolation and Bleed (DIB 2) Design	On Request
Drain	Standard
Drain Valve or Check Valve	On Request
Vent (on 6” and larger)	Standard
Vent Valve	On Request
Raised Face Flange	Standard
Ring Joint Flange	Standard
Buttweld Flange	On Request
Socket Flange	On Request
Bennet Injection (on 6” and larger)	Standard
Seat Injection (on 6” and larger)	Standard
Lever	Standard
Lever Lock System	On Request
Gear Box	On Request
Gear Box Lock System	On Request
Mapa and Support (on 6” and larger)	Standard
Valve Open/Close Indicator	Standard

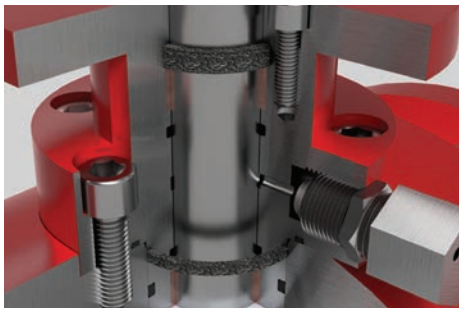
Other specifications are possible on request.

ANTI–BLOWOUT STEM DESIGN



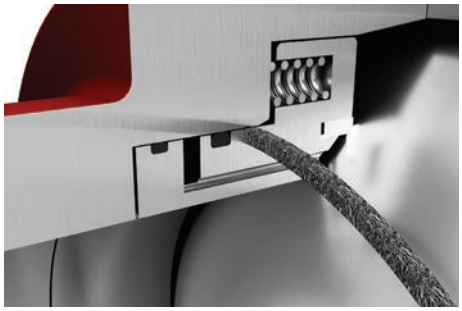
Our Ball valves are designed and manufactured in such a way that when the movement shaft holders and seals are removed, it will not be possible for the stem to go out of the valve due to the effect of pressure, as described by the standards. The stem is designed with a wide lower flange. In this way, the body cover part prevents the stem from dislodging and prevents a possible explosion. This feature allows the shaft seal to be replaced even when the valve is under pressure.

FIRE-SAFE DESIGN

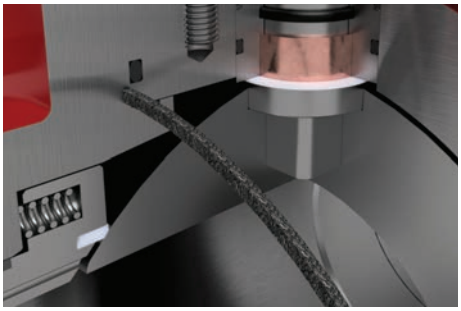


Bonnet

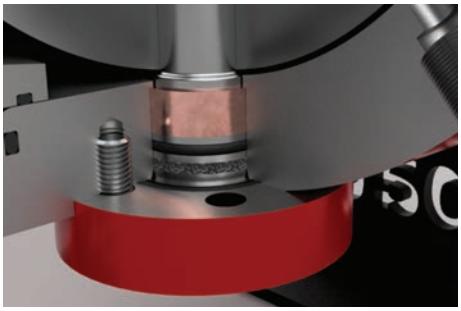
BatuValve ball valves have been subjected to fire tests in accordance with API 6Fa and ISO 10497 standards. Regardless of the soft seat material, they will likely be damaged when exposed to fire conditions. BatuValve offers a fire resistant design that can greatly prevent leaks from seals when valves are damaged by fire. If Teflon and O'ring materials are damaged, a metal-to-metal seal is formed between the secondary metal seat and the ball. The slot-to-body graphite seals, graphite body seals, and graphite gasket end caps are designed to withstand high temperature and will remain undamaged.



Seat

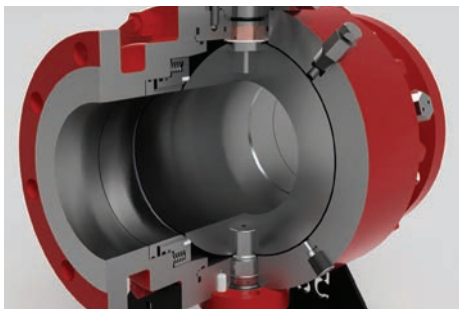


Body



Trunnion

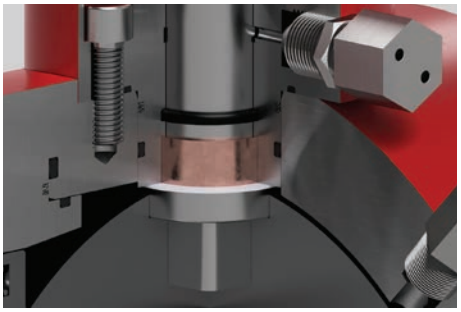
DRAIN & VENT DESIGN *



Valves are manufactured with drain and vent discharge outlets designed in accordance with the connection dimensions defined by the standards for the safe discharge of the pressurized fluid or gas remaining in the body when the valves are brought to the closed position.

** Specify during the order.*
BATUSAN reserves the right to change design, construction and material while staying within the standards.

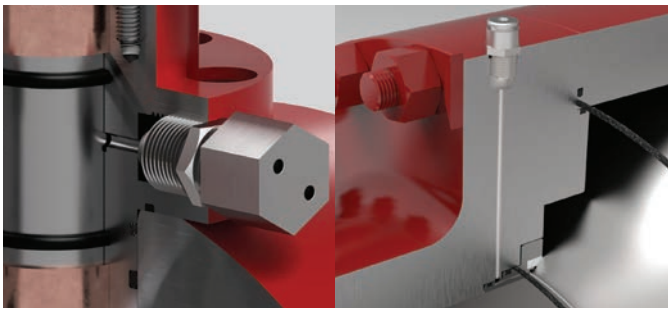
ANTI STATIC DESIGN



Ball Valves used in flammable and combustible fluid circuits such as petrol, LPG, LNG must be protected against static electricity. The spring and ball used in the stem ensure that any static electricity that may occur is grounded to the pipeline. In this way, the electrostatic charge that may occur on the ball is prevented.

BATU Ball Valves are designed and manufactured in accordance with these requirements.

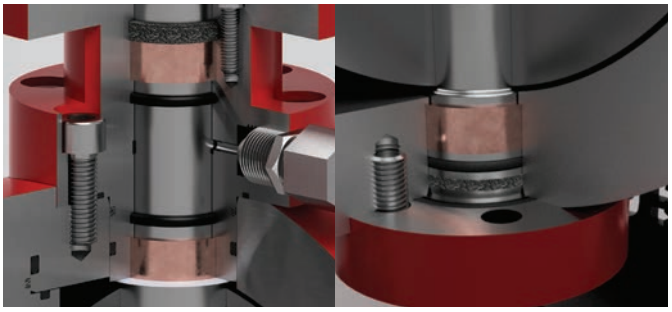
LUBRICATION AND EMERGENCY SEALANT INJECTION *



Bonnet Cover

Glacers on the bonnet and covers allow easy lubrication of the drive shaft and the hoops. Lubrication should be carried out periodically. These greaser can be used to inject sealant in emergency situations such as fire and other accidents.

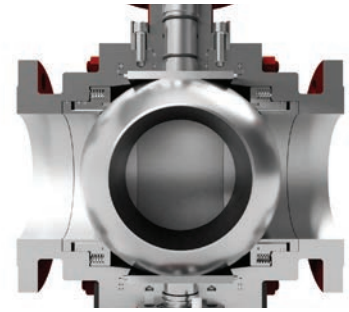
LOW TORQUE



Throat Seat

All split body trunnion ball valves have a very low torque value. Every valve produced is subjected to torque test.

HIGH PRESSURE – LOW PRESSURE SEALING DESIGN



The sealing performance of the ball valves at higher pressures are more important than at low pressures. At high pressures, sealing is ensured by forming a good contact between the sealing ring and the ball surface with the effect of the fl uid pressure applied from the back surface of the Sealing seat ring. When the pressure behind the ring reaches a low value, this contact force decreases. In this case, the spring force supporting the seat ring ensures enough force is applied so the contact between the sealing ring and the ball surface and the sealing function are maintained.

* *Specify during the order.*

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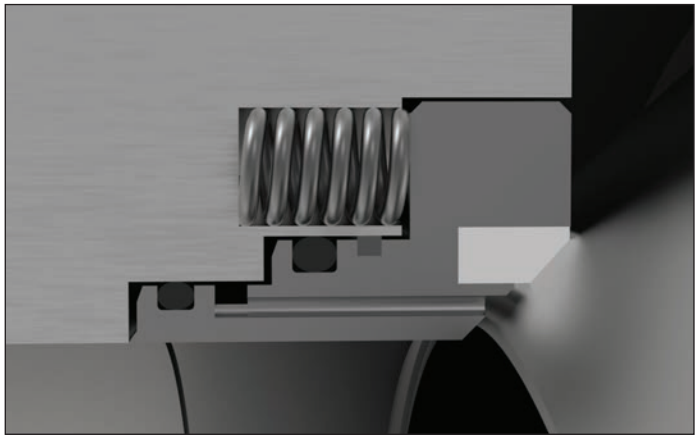
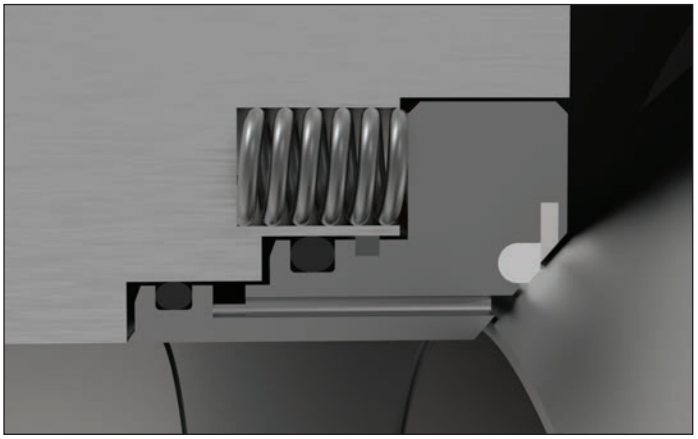
SEAT RING DESIGN

SOFT SEAT DESIGN



Soft Seat Design



*Primary Metal Secondary Soft Seat Design **

In standard trunnion ball valves, a flexible tefon material is placed between the seat and the ball to provide a soft seating motion and sealing in addition to the metal-to-metal fit.

METAL TO METAL SEAT DESIGN *

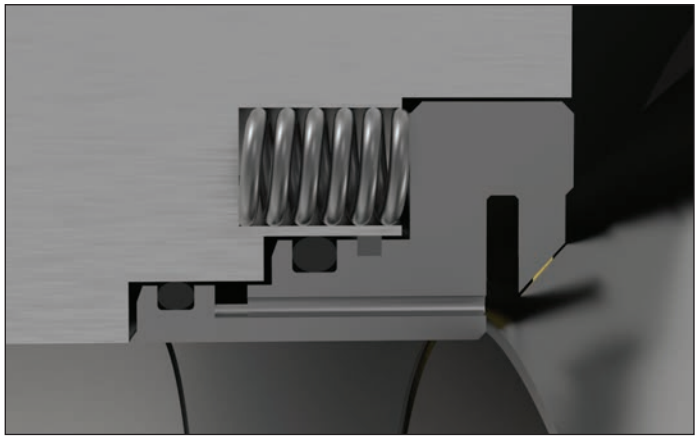
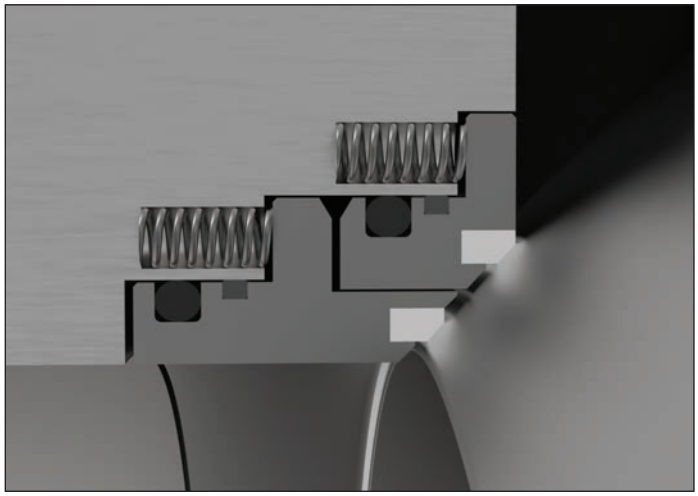
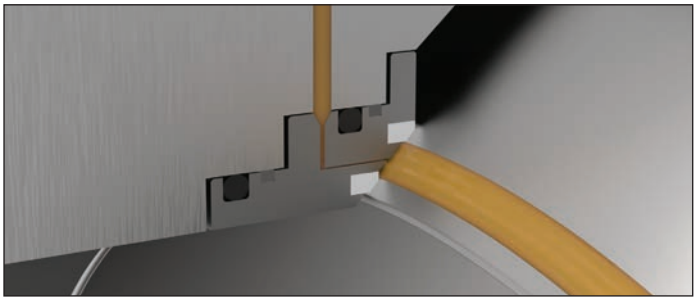


*Figure-3 - Metal to metal hoop design**

If there are abrasive substances in the pipeline or temperatures that prevent the use of Teflon, metal-to-metal hoop designs may be preferred. The areas where the ball and the seat touch each other have a hard surface.

DOUBLE SEAT DESIGN *





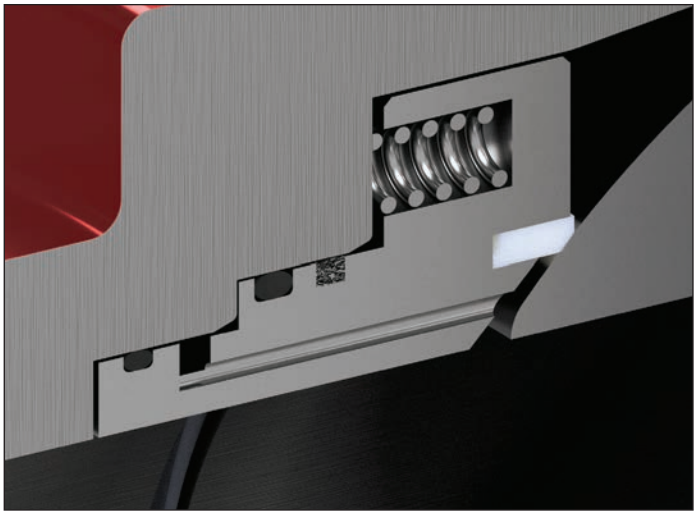
Trunnion valves use double seat and double teflon to achieve greater sealing.

* *Specify during the order.*

BATUSAN reserves the right to change design, construction and material while staying within the standards.

SEAT

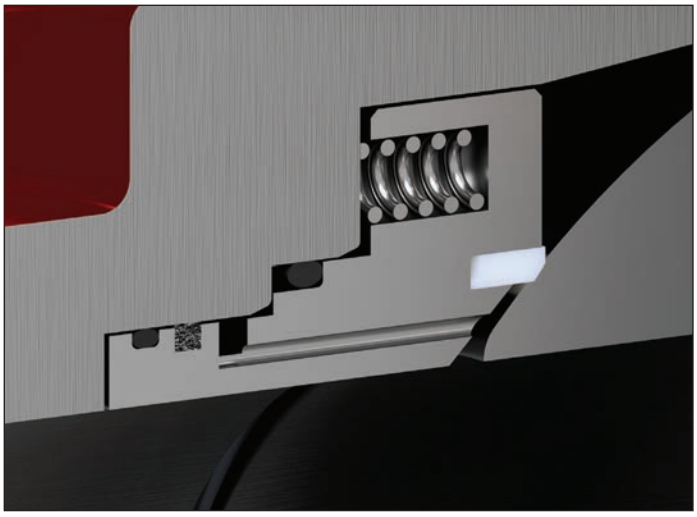
SINGLE PISTON EFFECT (SPE)



This is the standard type of bearing. When pressure is applied from both sides, SPE bearings are pushed towards the ball by the piston effect, providing a tight closing and sealing. If the pressure in the body cavity exceeds the pressure on either side of the line while the valve is in the closed position, the bearing on that side will be pushed back and the body pressure will be discharged to the low-pressure side of the line. Due to this feature, SPE type bearings are also called “Self-pressure relieving”, which discharge high pressure on their own.

Typical Application Areas: Pipeline ball valves in liquid services where it is necessary to prevent pressure increase in the body cavity due to temperature changes.

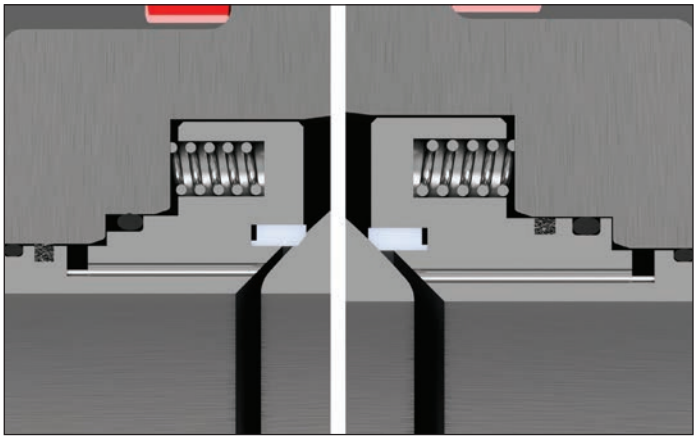
DOUBLE PISTON EFFECT (DPE) *



It is an optional ring-seat type. DPE seats are designed to be pushed towards the ball by the piston effect in both cases, whether the pressure comes from the valve body cavity or from the upstream or downstream side of the pipeline. DPE seated valves do not automatically release the pressure in the body cavity. Therefore, it is recommended to use a relief valve in liquid services.

Typical application areas; It is recommended in welded body valves when it is necessary to create an additional safe barrier between the upstream and downstream sides and where the maintenance of the seats is not foreseen.

SINGLE/ DOUBLE PISTON EFFECT COMBINATION (SPE-DPE) *

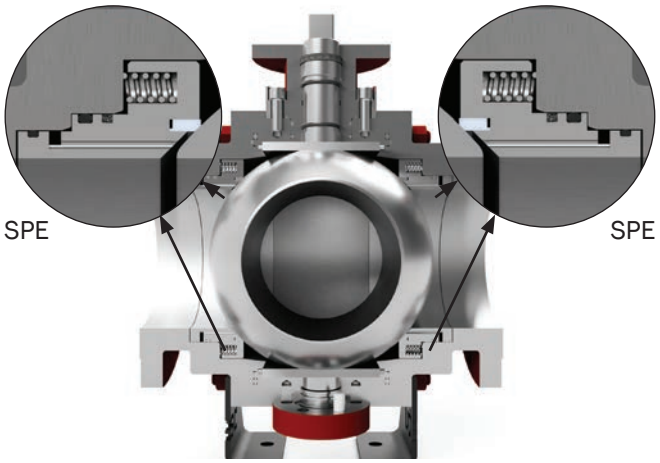


Upstream of the line, the SPE seat provides self-pressure relief. Downstream, the DPE seat provides a double barrier in case of damage to the upstream seat. This configuration includes a preferred installation orientation with the SPE seat facing upwards. With SPE-DPE configurations, the cavity discharge always occurs via the SPE seat.

Typical applications: Booster valves, Pig launchers / receivers. The DPE seat provides double insulation to the Pig trap and also allows automatic relief of the body cavity in the event of pressure build-up.

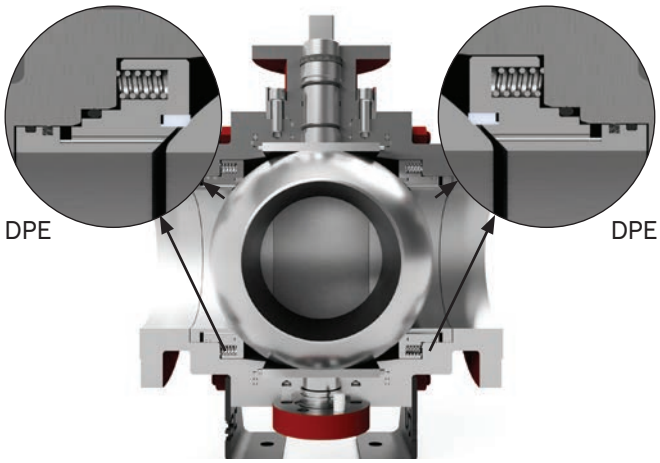
** Specify during the order.*
BATUSAN reserves the right to change design, construction and material while staying within the standards.

DOUBLE BLOCK AND BLEED DESIGN (DBB)



This is the standart seat type. When pressure is applied on both sides, SPE-SPE seats are pushed towards the ball with the effect of a piston, providing a tight closing and sealing. If the pressure in the stem cavity rises above the pressure on either side of the line while the valve is in the closed position, the seat on that side will be pushed back and the in-shell pressure will be released to the low pressure side of the line. Due to this feature, SPE type seats are also called “Self pressure relieving”, which releases high pressure by itself. Typical Fields of Application: Pipeline ball valves in fluid services where the pressure increase in the body cavity due to temperature changes is required.

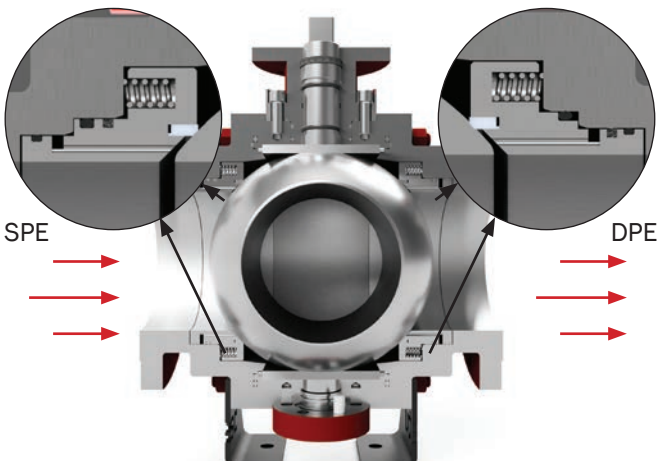
DOUBLE ISOLATION AND BLEED (DIB 1) *



It is an optionally available seat type. DPE seats, whether the pressure comes from the valve body cavity or from the upper or lower side of the pipeline; In both cases, it is designed to be pushed towards the sphere by the piston effect. DPE seated valves do not automatically relieve pressure in the body cavity. For this reason, the use of a drain valve is recommended in fluid services.

Typical application areas; where it is necessary to create an additional safety barrier between the upstream and downstream sides and where maintenance of the seats is not envisaged. It is also recommended for valves with welded body.

DOUBLE ISOLATION AND BLEED (DIB 2) *



On the upstream side of the line, the SPE seat provides self-pressure relief. On the downstream side, the DPE seat provides a double barrier in case the upstream seat is damaged. This confi guration includes a preferred installation direction with the SPE seat facing up. With SPE-DPE confi gurations, the cavity pressure evacuation always takes place via the SPE seat side .

** Specify during the order.*

BATUSAN reserves the right to change design, construction and material while staying within the standards.

CERTIFICATES


Certificate of Authority to use the Official API Monogram

License Number: 6D-0995 ORIGINAL

The American Petroleum Institute hereby grants to

BATUSAN MAKINA SANAYI VE TICARET A.S.
Dilovasi Org. San. Bolgesi
2. Kisim D-2015 Sok. No: 6 Dilovasi
Kocaeli
Turkey

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and API-6D and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: 6D-0995

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Ball Valves

QMS Exclusions: Servicing

Effective Date: APRIL 26, 2022
Expiration Date: APRIL 26, 2025

To verify the authenticity of this license, go to www.api.org/compositelist.

Senior Vice President of Global Industry Services

American Petroleum Institute


SERTİFİKA

TÜV SÜD Slovakia s.r.o.
Yönetim sistemleri sertifikasyon merkezi

BATUSAN MAK. SAN. VE TİC. A.Ş.

BATUSAN MAK. SAN. VE TİC. A.Ş.

EN ISO 9001:2015


KING CERT

SERTİFİKA

Batusan Mak. San. ve Tic. A.Ş.

ISO 45001:2018
İş Sağlığı ve Güvenliği Yönetim Sistemi


KING CERT

SERTİFİKA

Batusan Mak. San. ve Tic. A.Ş.

ISO 14001:2015
Çevre Yönetim Sistemi


TUF CERT

Sertifika
CERTIFICATE

BATUSAN MAK. SAN. ve TİC. A.Ş.

BATUSAN MAK. SAN. ve TİC. A.Ş.

ISO/TS 29001


TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS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(*)You can access all the certifi cates we have on our website www.batuvalve.com/certificates.html

CERTIFICATES


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CERTIFICATE

The Certification Body of
TÜV SÜD Industrie Service GmbH,
a Notified Body of the Pressure Equipment Directive (PED),

certifies that

BATUSAN MAKİNA SANAYİ VE TİCARET A.Ş.
Dilovası Org. San. Bölgesi 2. Kısım D 2015 Sok. No: 8
41455-Gebze / Kocaeli / TURKEY

implemented, operates and maintains a quality assurance system as described in the Pressure Equipment Directive 2014/68/EU
Annex III, Module H
for the scope of

Design, manufacturing, testing and final inspection of industrial Burak type ball valves, ball valves, check valves, gate valves, needle valves, butterfly valves, globe valves, strainers, sight glasses (flow scope), steam traps, expansion joints
which have capacity
DN 32 to DN 350, PN 6 to PN 250 (Class 150 to 1500)

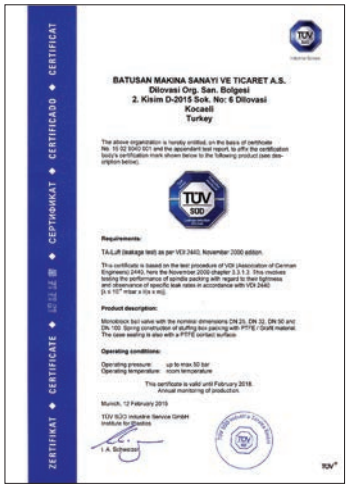
The audit with the report number Q-TR-PED-1210000078-01-19 proves that the quality assurance system fulfils the PED requirements.
The manufacturer is authorized to provide the pressure equipment produced within the scope of the assessed quality assurance system with the following Notified Body Number:

CE 0036

Certificate No.: DGR-0036-QS-1226-19

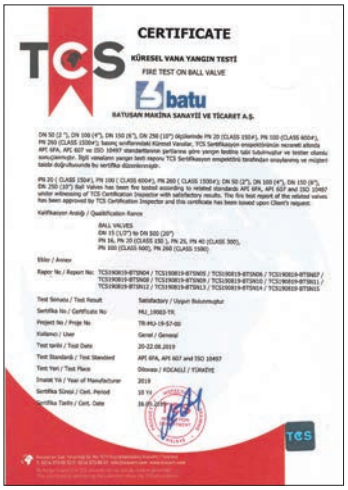
Fildorstadt, November 04th, 2019


DICHIARAZIONE
DECLARATION


BATUSAN MAKINA SANAYI VE TICARET A.S.
Dilovasi Org. San. Bolgesi
2. Kisim D-2015 Sok. No: 6 Dilovasi
Kocaeli
Turkey


CERTIFICATE / SERTİFİKA

Function test on PN 40 and DN 25, DN 50, DN 100 Valve
PN 40 ve DN 25, DN 50, DN 100 Vanaların Fonksiyon Testi


CERTIFICATE
KÜRESEL VANA YANGIN TESTİ
FIRE TEST ON BALL VALVE
batu
BATUSAN MAKİNA SANAYİİ VE TİCARET A.Ş.


CERTIFICATE
KÜRESEL VANA YANGIN TESTİ
FIRE TEST ON BALL VALVE
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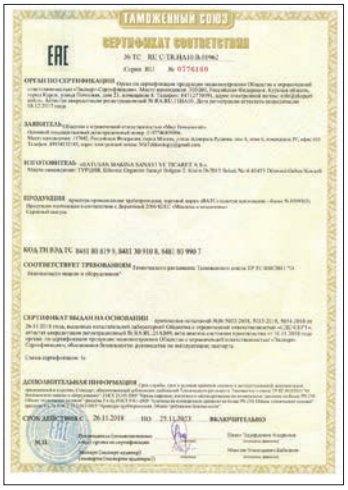
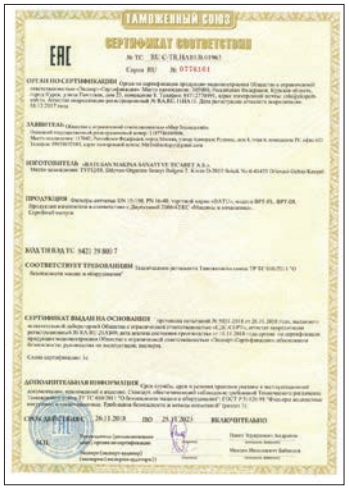
BATUSAN MAKİNA SANAYİİ VE TİCARET A.Ş.


TÜV CYPRUS
CERTIFICATE
TT 2261


TÜV NORD
CERTIFICATE


ТАМОЖЕННЫЙ СОЮЗ
СЕРТИФИКАТ СООТВЕТСТВИЯ
EAC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batuVALVE

6D 0995

ISO 9001

CE 0036

FIRE SAFE

ATEX

EAC

TÜV NORD

TS 2261

TS 9809

TS EN 331

TS 3148

TS 11494

TS EN 16767

FACTORY & HEAD OFFICE

Dilovası Org. San. Bölgesi 2.Kısım D-2015 Sok. No : 6 Dilovası-Gebze / KOCAELİ TÜRKİYE

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