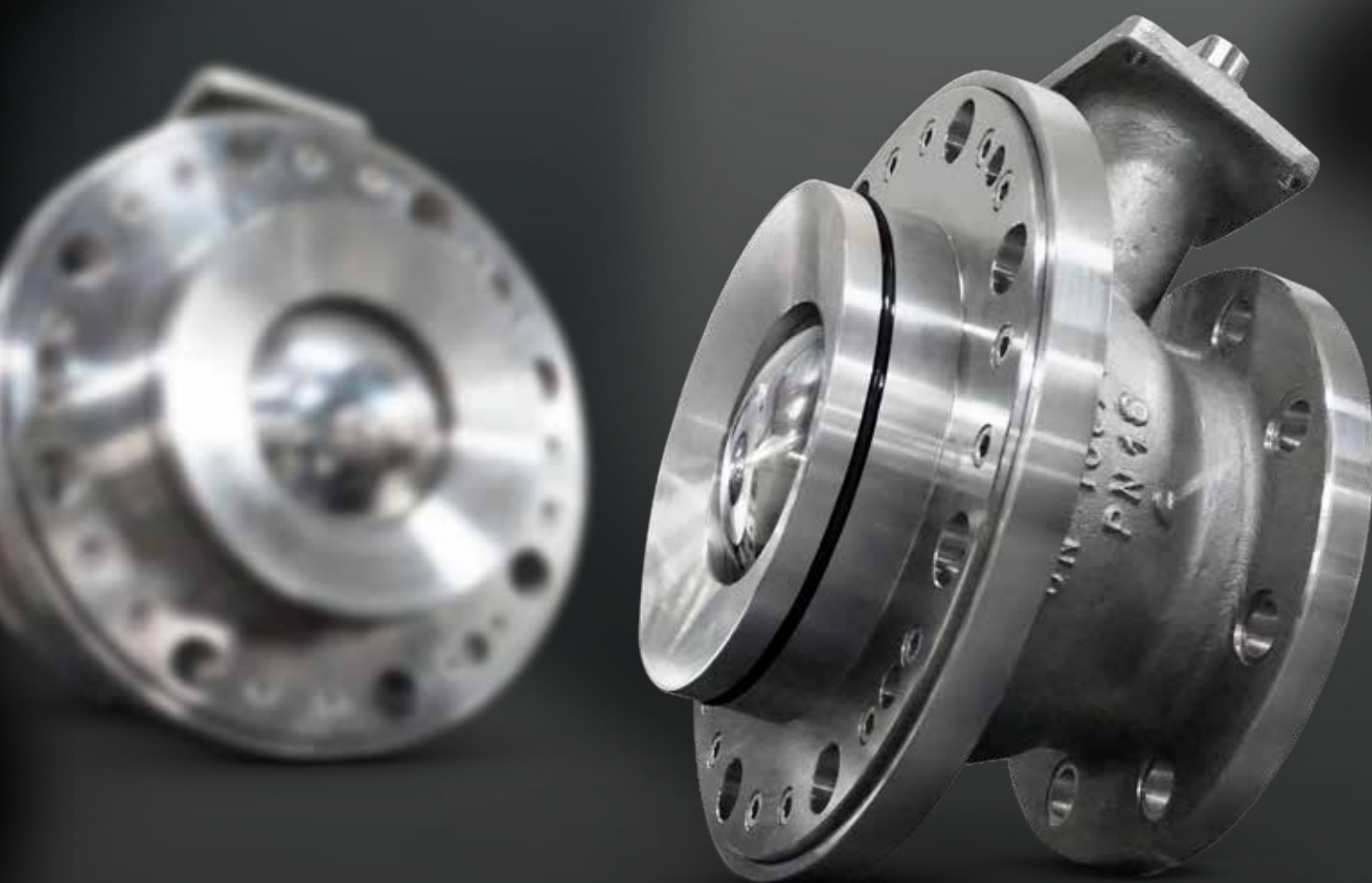


# TANK BOTTOM BALL VALVES

## CATALOGUE



International  
Standards

**100% European  
Production**



# 25 years

**DESIGNING QUALITY**  
and many projects to come

### German Designs

FHT valves is a state-of-the-art factory manufacturing high quality ball valves since 1997. Our roots go back to the first German manufacturers and designs. Using our experience in the field of chemical industry, we have improved those designs, to achieve the best possible quality and best performance.

### Huge manufacturing range, 100% European

During these years we have expanded our manufacturing range and developed the strategy to be present worldwide. Our factory is close to achieving perfection in quality without No Conformities of our customers or accidents in our workshops. 100% of the manufacturing process of our valves is carried out within the European Economic Community, meeting all European standards. We are fully involved in the security of the whole process.

### Clean processes, vision for the future

We are increasingly focusing on clean processes such as Hydrogen and Green Energy, as well as other industries such as CHEMICAL, PETROCHEMICAL, OIL AND GAS, ENERGY, PULP AND PAPER, WATER, MARINE SERVICES.

### Continuous commitment manufacturing with the highest quality

On our 25th anniversary at FHT valves, we are immersed in a process of growth that includes industrial buildings and modern machinery that will serve to continue offering a quality service and a product of which we can feel proud.

New Building infographic  
FHT valves - Mungia  
Karmelo etxegarai 60  
48100 Mungia





# TANK BOTTOM BALL VALVES



## FOR PRESSURE VESSELS & STORAGE TANKS

Tank bottom ball valves are the perfect solutions for draining and discharging pressure vessels and storage tanks. They are very appropriate for chemical, food and beverage, dairy products and pharmaceutical industry.

**Is suitable for high pressure and temperature and has metal or soft seats available as well as all kind of actuators and materials.**

### **Minimal distance between the ball and the tank bottom**

Tank Bottom ball valves specifically designed to avoid any product dissociation and designed for optimizing the space between the product and which means minimizing the material and consequently translates into economic savings.

### **Tilted stem design eases the assembly of actuators**

Our special design with tilted stem offers the possibility of even mounting pneumatic actuators for quick closing in case of emergency or shut down.

### **Bolted Bonnet for easy maintenance**

After listen to maintenance experts of tank bottom valves we developed our Bolted Bonnet design which avoid any seizure or scuffing and consequently any problem during maintenance works.

### **Anti-torsion stem manufacturing in DUPLEX**

Another advantage of the FHT tank bottom ball valve has the stem manufactured in DUPLEX to avoid twisting in the same as not needing actuators with higher torques thus lowering the set.



Tank Bottom  
Ball valve in  
Hastelloy material.



All our valves are tested and meet the most demanding European standards.

## TANK BOTTOM BALL VALVES

# FEATURES AND ADVANTAGES

## TANK BOTTOM BALL VALVES

**BOLTED BONNET  
FOR EASY MAINTENANCE**  
and avoid any danger of seizure

**CONTAMINATION-FREE**  
PROJECTING BALL TO AVOID ANY CONTAMINATION

**SIZES**  
FROM 1/2" (DN15) UP TO 8" (DN200)  
in full bore design to allow a better flow and prevent  
clogging.

**COUNTER FLANGE AS OPTION  
FOR EASY CONNECTION**  
Counter flange will be weld to tank

**RATING**  
FROM CLASS 150 (PN16)  
UP TO CLASS 2500 (PN420)  
to meet the needs of any industry.

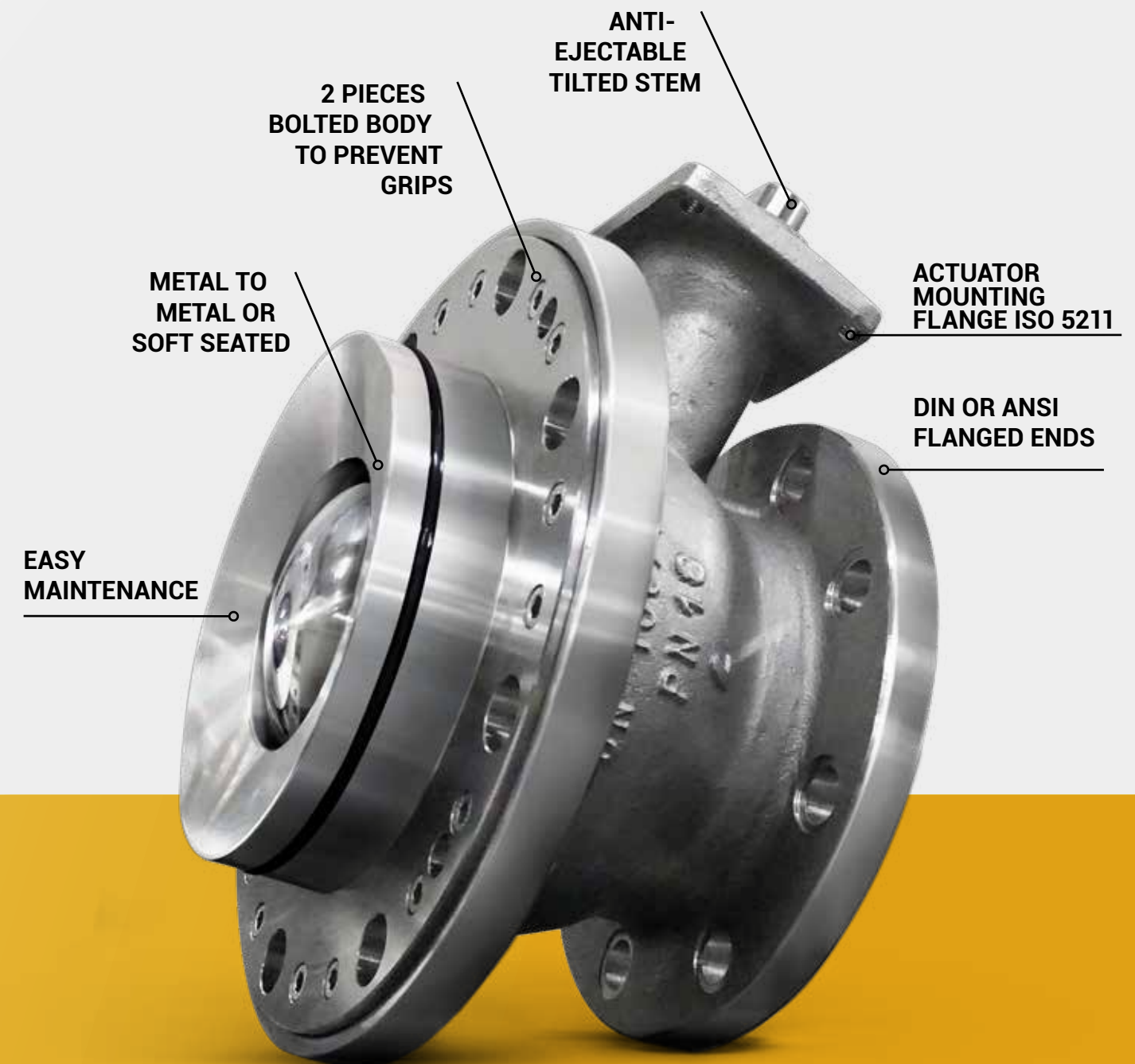
**CLOSURE**  
AVAILABLE IN MANUAL AND ACTUATED

**LOCKING DEVICE OPTIONAL**  
TO AVOID UNINTENTIONAL OPENINGS



### SOFT OR METAL SEATS

Any kind of seat according  
to our customers'  
requirements.



\* For any special requirement  
we look forward to your email:  
[info@fhtvalves.com](mailto:info@fhtvalves.com).



# RANGE OF PRODUCTION

## TANK BOTTOM BALL VALVES

### TANK BOTTOM SOFT SETAED, TWO PIECE FLOATING

#### 112FC-INTEC

Double Packing & Double Seal

#### 113FC-INTEC

Double Packing & Double Seal, Spring Loaded

### TANK BOTTOM METAL SEATED, TWO PIECE FLOATING

#### 112FCM-INTEC

Double Packing & Double Seal

OUTLET VALVE SIZE	INLET TANK SIZE
DN50	DN25
DN80	DN50
DN100	DN80
DN150	DN100
DN200	DN150
DN250	DN150

Inlet Tank

Outlet valve

# QUALITY

## CORPORATE COMMITMENT

FHT valves is synonymous with high quality valves and perfect performance. We work to offer the best quality valves and the highest standards.

### PRODUCT CERTIFICATES

TA - LUFT	TIGHTNESS OF THE STEMS FOR GAS EMISSIONS
SIL	CAPACITY SIL 3 EN 61508:2010 FOR FLOATING AND TRUNNION
ATEX	EUROPEAN DIRECTIVE 2014/34/EC
ISO 15484-1	FUGITIVE EMISSION TEST ACCORDING TO ISO 15848-1:2006
FIRE SAFE	BS 6755 / EN-ISO 10497 / API 607
AD 2000 MERKBLATT	AD 2000 MERKBLATT W 0 / A 4
MONOGRAMA API	STANDARD API 6D - 0613
CE 0036	MODULE H, DESIGN, MANUFACTURING AND SALES

### QUALITY STANDARDS

ISO 9001	QUALITY MANAGEMENT SYSTEM
ISO 14001	ENVIRONMENTAL MANAGEMENT SYSTEM
API MONOGRAM	API Q1, QUALITY MANAGEMENT SYSTEM

- MILL 3.1 CERTIFICATE
- HYDROSTATIC CERTIFICATE 3.1
- CERTIFICATE OF FUNCTIONAL TESTING
- CERTIFICATE 3.2 ON REQUEST
- ITP
- THIRD-PARTY INSPECTIONS
- API
- CE
- FIRE SAFE
- ISO 9001
- FUGITIVE EMISSIONS
- ATEX
- SIL CERTIFICATE AND SIL CALCULATION
- ALL TYPES OF NON-DESTRUCTIVE TESTING



# GENERAL

## RANGE OF PRODUCTION

### FLOATING SOFT SEATED TWO PIECE

**112-INTEC**  
Double Packing & Double Stem Seal

**113GL-INTEC**  
Double Packing & Double Stem Seal,  
Spring Loaded

**115 -INTEC**  
Autoadjustable Packing

**125-INTEC**  
Autoadjustable Packing,  
Friction-Free Shaft

**125GL-INTEC**  
Autoadjustable Packing, Friction-Free Shaft,  
Spring Loaded

**130-INTEC**  
Autoadjustable Packing, threaded ends

**131 - INTEC**  
Autoadjustable Packing, welding ends

### TRUNNION SOFT SEATED TWO PIECE

**115G-INTEC**  
Autoadjustable Packing,  
Spring Loaded

**117G-INTEC**  
Protected Seats & Spring Loaded,  
Autoadjustable Packing

### THREE PIECE 115G-3P-INTEC

Autoadjustable Packing,  
Spring Loaded

**117G-3P - INTEC**  
Protected Seats & Spring Loaded,  
Autoadjustable Packing

### FLOATING METAL SEATED TWO PIECE

**114-INTEC**  
Autoadjustable Packing,  
Spring Loaded

### TRUNNION METAL SEATED TWO PIECE

**116G-INTEC**  
Autoadjustable Packing,  
Spring Loaded

**118G-INTEC**  
Protected Seats & Spring Loaded,  
Autoadjustable Packing

**THREE PIECE  
116G-3P - INTEC**  
Autoadjustable Packing, Spring Loaded

**118G-3P - INTEC**  
Protected Seats & Spring Loaded,  
Autoadjustable Packing

**3 WAYS TRUNNION  
SOFT SEATED  
120-INTEC**  
Autoadjustable Packing, Spring Loaded

### 3 WAYS TRUNNION METAL SEATED

**121-INTEC**  
Autoadjustable Packing, Spring Loaded

### TANK BOTTOM SOFT SEATED TWO PIECE

**112FC-INTEC**  
Double Packing & Double Stem Seal

**113FC-INTEC**  
Double Packing & Double Stem Seal, Spring  
Loaded

### TANK BOTTOM METAL SEATED TWO PIECE

**112FCM- INTEC**  
Double Packing & Double Stem Seal

### BRONZE FLOATING SOFT SEATED

**TWO PIECE  
310 - LB**  
Simple packing

### BRONZE FLOATING SOFT SEATED

**THREE PIECE  
311 - LB**  
Simple packing

### BRONZE 3 WAYS FLOATING SOFT SEATED

**THREE PIECE  
320- LB**  
Double Packing & Double Stem Seal



CHEMICAL



PETROCHEMICAL



CRYOGENIC & HYDROGEN



PHARMA



ENERGY



PULP & PAPER



WATER



MARINE SERVICES

**25 YEARS**  
1997-2022

**DISEIGNING QUALITY**  
and many projects  
to come



*Your clever choice*

**100% EUROPEAN PRODUCTION**





## FLUID HANDLING TECHNOLOGY, S.A.

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KARMELO ETXEGARAI 60  
48100 MUNGIA  
BIZKAIA SPAIN

[info@fhtvalves.com](mailto:info@fhtvalves.com)



[www.fhtvalves.com](http://www.fhtvalves.com)