



### Certification and Quality Standards

- ISO 9001 ISO 14001 OHSAS 18001
   API6D API6A API 6DSS PED 2014/68/UE
   Fire Safe certificate API 6FA/API 607/ISO 10497 ATEX 2014/34/UE TUV
   SIL 3 Certificate Bureau Veritas Achilles FPAL (UK-Netherland & Norway-Denmark)
   EAC certification TR CU 012/2011 and TR CU 032/2013











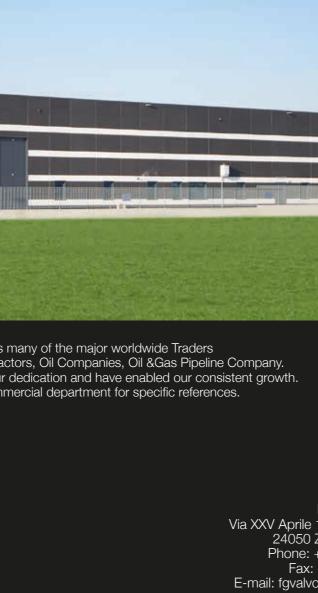
APPLICATIONS

FG Valvole serves many of the major worldwide Traders Engineering Companies, Contractors, Oil Companies, Oil &Gas Pipeline Company. Our Customers have rewarded our dedication and have enabled our consistent growth. Please contact our commercial department for specific references.

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#### Trunnion side entry ball valve **SIZES:** ½" – 60" PRESSURE CLASSES: ANSI 150 – 4500

API 2000 – 20000

#### MAIN FEATURES AND OPTIONS:

Single or Double Piston Effect Seat

Overlay on Sealing Surfaces Only

Specific design for HIPPS, ESD application

Special constructions available for High and Low

Cladding in Seat Pocket Areas

Soft or Metal Seated

Fully Internally Clad

Double block and bleed

 Two or three pieces body construction; body construction; bolted joints or welded body

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni-alloys and titanium Overlays: Alloy 625 / 316L

Coatings: Tungsten Carbide/Chromium Carbide/ENP

Soft or Metal Seated

requirements. Special constructions available for extremely High and Low Temperature (Cryogenic), erosive/abrasive, corrosive service

Bidirectional design available

Overlay on dynamic sealing area

Fully Internally Clad

Specific design for HIPPS, ESD application



### Top entry ball valve **SIZES:** ½" – 48"

PRESSURE CLASSES: ANSI 150 – 4500 API 2000 – 20000

#### MAIN FEATURES AND OPTIONS:

Trunnion or Floating contruction

• Extremely wide selection of materials (forging or casting) for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni-alloys and titanium

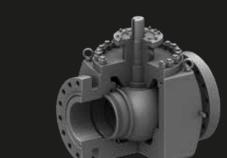
Overlays: Alloy 625/316L

 Coatings: Tungsten Carbide/Chromium Carbide/ENP Soft or Metal Seated

 Single or Double Piston Effect Seat Double block and bleed

Overlay on Sealing Surfaces Only

 Cladding in Seat Pocket Areas Fully Internally Clad



### Floating side entry ball valve PRESSURE CLASSES: ANSI 150 – 2500

API 2000 – 20000

**MAIN FEATURES AND OPTIONS:** Two or three pieces body construction; bolted joints

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni-alloys and titanium

Overlays: Alloy 625 / 316L

Coatings: Tungsten Carbide/Chromium Carbide/ENP

Metal Seated construction to suit very severe service

Cladding in Seat Pocket Areas



### Silent Segment ball valve **SIZES:** 1" – 32"

PRESSURE CLASSES: ANSI 150 – 600

**MAIN FEATURES:** 

One, Two or Three pieces body construction

Anti - blowout shaft

 Special trim available with attenuator for anti - cavitation and noise reduction

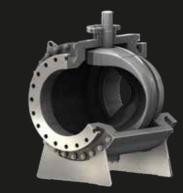
 Low emissions according to ISO 15848 with wide temperature range and the longest endurance class

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni - alloys and titanium

Overlay: Alloy 625/ 316L

Coating: Tungsten Carbide / Chromium Carbide / ENP

Soft of Metal Seated



### Modular double block & bleed valve

PRESSURE CLASSES: ANSI 150 – 4500 Api 2000 - 15000

#### MAIN FEATURES AND OPTIONS

Available in floating and trunnion construction

• Split body construction; bolted joints; cartridge type

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni-alloys and titanium

Overlays: Alloy 625 /316L

 Coatings: Tungsten Carbide/Chromium Carbide/ENP Soft or Metal Seated

 Single or Double Piston Effect Seat Double block and bleed

 Overlay on Sealing Surfaces Only Cladding in Seat Pocket Areas

Fully Internally Clad

Special constructions available for High and Low

Temperature (Cryogenic), erosive /abrasive, corrosive service. CONFIGURATION

AVAILABLE Ball/Needle/Ball Cartridge Type Ball/Needle/Needle/Ball Ball/Needle/Globe Ball/Needle/Ball



#### Pig valve **SIZES:** 2" / 24"

Ball/Ball

Ball/Globe

PRESSURE CLASSES: ANSI 150 – 2500 MAIN FEATURES AND OPTIONS

Two or three pieces body construction

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni-alloys and titanium

Overlays: Alloy 625 / 316L

Coatings: Tungsten Carbide/Chromium Carbide/ENP

Soft or Metal Seated

 Metal Seated construction to suit very severe service requirements.

 Special constructions available for extremely High and Low Temperature (Cryogenic), erosive/abrasive, corrosive service

Bidirectional design available

Designed for loading and receiving

 Compact design and customized inner diameter

 Overlay on dynamic sealing area Cladding in Seat Pocket

Fully Internally Cladded



### **Choke valve**

**SIZES:** 1" – 24" / 1.13/16" – 11" PRESSURE CLASSES: ANSI 300 – 2500 API 3000 - 20000

### MAIN FEATURES AND OPTIONS

Top Entry or Two pieces body construction

 Quick Opening, Linear or Equal Percentage Flow characteristics

 Adjustable and Positive design Needle, Bean, Cage, Multi Cage trim type

 External Sleeve Pressure Balanced seals

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless

steels, Duplex 22/25 Cr, Ni-alloys and titanium Overlays: Alloy 625 / 316L

Coatings: Tungsten Carbide/Chromium Carbide/ENP

 Solid sintered Tungsten Carbide/Chromium Carbide (Plug, Bean, Cage)

 Metal Seal and Seated construction to suit very severe service requirements.

 Special constructions available for extremely High and Low Temperature (Cryogenic), erosive/abrasive, corrosive service Overlay on dynamic sealing

Cladding in Seat Pocket

Fully Internally Cladded

Areas



PRESSURE CLASSES: ANSI 150 – 2500 MAIN FEATURES AND OPTIONS

 Top Entry or Two pieces body construction Quick Opening, Linear or Equal Percentage Flow

characteristics Adjustable and Positive design

Needle, Bean, Cage, Multi Cage trim type

External Sleeve

Pressure Balanced seals

 Extremely wide selection of materials for both body and internals, including: carbon steel, low alloy steels, stainless steels, Duplex 22/25 Cr, Ni-alloys and titanium

Overlays: Alloy 625 / 316L

Coatings: Tungsten Carbide/Chromium Carbide/ENP

 Solid sintered Tungsten Carbide/Chromium Carbide (Plug Bean, Cage)

 Metal Seal and Seated construction to suit very severe service requirements.

 Special constructions available for extremely High and Low Temperature (Cryogenic), erosive/abrasive, corrosive service

 Overlay on dynamic sealing area

 Cladding in Seat Pocket Areas Fully Internally Cladded

Wedge gate bolted bonnet valve **SIZES:** 1.1/2" – 60" PRESSURE CLASSES: ANSI 150 – 4500 API 2000 - 20000

MAIN FEATURES AND OPTIONS: Production Type: Bolted Bonnet, Outside Screwed & Yoke Wedge Type:

- 1 piece Flexible Wedge for 2" to 60" size valves in all classes - 1 piece Solid wedge for 1.1/2" to 24" size valves in all classes of

light wall Thickness type - 2 piece Split Wedge for 2" to 60" size valves in all classes

- Double Disc Parallel Seats for 2" to 60" size valves in all classes

- Heavy wall Thickness Type

(ISO 14313, API 600, BS1414, API 6A) - Light wall Thickness Type (ASME B16.34, API603

- Applicable Materials: Carbon Steel, Alloy Steel, Stainless Steel, Special SS, Special Alloy

### Wedge gate pressure seal valve **SIZES:** 1.1/2" – 36"

PRESSURE CLASSES: ANSI 300 – 4500 MAIN FEATURES AND OPTIONS

 Production Type: Pressure Seal, Outside Screwed & Yoke Wedge Type:

- 1 piece Flexible wedge for 1.1/2" to 36"

- 1 piece Solid wedge for 1.1/2" to 12" - Double Disc Parallel Seats for 2" to 36"





### Through conduit slab gate valve **SIZES:** 1.1/2" – 56"

PRESSURE CLASSES: ANSI 150 – 4500 API 2000 - 20000

### MAIN FEATURES AND OPTIONS:

 Production Type: Top Entry construction, Through conduit suitable for pigging, Floating seats, Anti blowout stem, Cast or forged, Fire safe certified, Double block & bleed, By-directional, Self -relieving design, Rising-Stem and Non-Rising-Stem design available, Low actuation force demand

 Disc Type: 1 piece Solid Disc for 1-1/2" to 56" size valves in all classes

 Design Range: API 6D. API 6A. ISO 10423

 Wall Thickness according

ASME B16.34 End to end dimension according to ASME B16.10



## Globe bolted bonnet valve

**SIZES:** 1/2" – 36" PRESSURE CLASSES: ANSI 150 – 4500 API 2000 - 20000

### MAIN FEATURES AND OPTIONS

 Production Type: Bolted Bonnet, Outside Screwed & Yoke, Straight Pattern, Y Pattern, Angle

 Disc Type: Plug Disc type for 1/2" to 36"

Parabolic Disc type for 1/2" to 36" 2 pieces Split wedge for 2" to 60" Double Disc Parallel Seats for 2" to 60"

Heavy wall Thickness Type (ISO14313, BS1873, API 603 Light wall Thickness Type (ASME B16.34, API 603

Applicable Materials: Carbon Steel, Alloy Steel, Stainless Steel, Special SS, Special

### Globe pressure seal valve PRESSURE CLASSES: ANSI 300 – 4500

MAIN FEATURES AND OPTIONS Production Type: Pressure Seal, Outside Screwed & Yoke

 Disc Type: Plug Disc type for 1/2" to 36"

 Material Selection: WCB/LCB C5/WC1/WC6/WC9/C12/C12A/CF8/CF8M/CF8C





### Through conduit double expanding

gate valve **SIZES:** 2" – 36" PRESSURE CLASSES: ANSI 150 – 4500

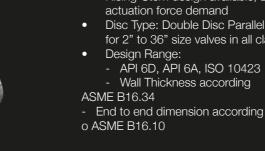
### API 2000 - 20000

MAIN FEATURES AND OPTIONS: Production Type: Top Entry construction, Through conduit suitable for pigging, Anti blowout stem, Cast or forged, Fire safe certified, Double block & bleed, By-directional, Rising-Stem and Non-Rising-Stem design available, Low

 Disc Type: Double Disc Parallel Seats for 2" to 36" size valves in all classes

Design Range:

- End to end dimension according



### Axial Flow valve

Fire Pump

DESIGN OPTIONS

pressure drop

(MULTI) CAGE TRIM

characteristics

**SIZES:** 1/2" – 60"

API 2000 – 20000

available

Metal Seated

Design Range

BS1868)

Storage and distribution

Anti surge / throttling service

Choke and by-pass service

MAIN FEATURES AND OPTIONS

Balanced-pressure disc design

phases service where high

pressure drop is predicted

and noise level shall be

DESIGN for high pressure

drops and large flow rate.

Multi cage trim can be

sized to suit any specific

Swing Check valve

**MAIN FEATURES AND OPTIONS** 

Disc Type: Clapper Disc for ½" 60"

PRESSURE CLASSES: ANSI 150 – 4500

Production Type: Bolted Bonnet and Pressure Seal design

Heavy wall Thickness Type (ISO14313, API 6D, API 6A,

Light wall Thickness Type (ASME B16.34, API 603)

Steel, Duplex 22/25 Cr, Ni-Allloys and Titanium

Material Selection: Carbon Steel, Low Alloy Steel, Stainless

flow condition with different

Tank loading / venting and depressurization

Valves for throttling service (FLOW CONTROL)

Reduced valves stroke for quick closing time (SDV-HIPPS)

Extended design life and low maintenance interventions

Extremely wide selection of materials for both body and

steels, Duplex 22/25 cr, Ni-alloys and titanium.

PLUG TYPE TRIM DESIGN for large flow rate and high

(SINGLE) CAGE TRIM DESIGN for gas, liquid and mixed

internals including: carbon steel, low alloy steels, stainless

Valves for tight isolation service (ON-OFF)

**SIZES:** 2" - 48" | **PRESSURE CLASSES:** ANSI 150 to 2500 API 2000 to 20000 MAIN APPLICATIONS:

#### Production / Treatment / Transmission and Transportation / **MAIN FEATURES AND OPTIONS:**

Production Type:

- Short pattern (std FGV) and long pattern (ANSI B16.10) design available - Metal Seated

Valve conduit contour designed to provide maximum

fluid-dynamic efficiency - Different spring selection is available to suit the

pressure drop and no-chattering

in all classes • Design Range: Heavy wall Thickness Type (ISO 14313,



### **Dual Plate / Tilting Disc Check valve SIZES:** 1/2" – 60"

API 2000 – 20000

Lug type design option

 Production Type: DUAL Wafer and Monobloc body (Flanged/Hub Ends) Hing pins are retained into the body

Disc type: Dual plates type for ½" to 60" TII TING

Bolted Bonnet or Pressure Seal available Short pattern can be supplied Wafer type or Monobloc (Flanged)

Disc type: Tilting Non Slam Disc Type for 1/2" to 60"

• Material Selection: Carbon Steel, Low Alloy Steel, Stainless Steel, Duplex 22/25 Cr, Ni-Alloys and Titanium Hardfacings: Stellite, Colmoloy, Tungsten and Chromium Carbides



#### **SIZES:** 1/2" - 60" PRESSURE CLASSES: ANSI 150 – 4500 API 2000 - 20000

Nozzle Check valve

- Soft seated construction available for bubble-tight shutoff

required range of flow rates, combining minimum • Disc Type: Non Slam Disc type for 1/2" to 60" size valves

API 594, API 6D, API 6A)



# PRESSURE CLASSES: ANSI 150 - 4500

MAIN FEATURES AND OPTIONS

Soft seated construction for bubble-tight shutoff



### Dedicated product brochure is available on request contacting FG Valvole commercial department