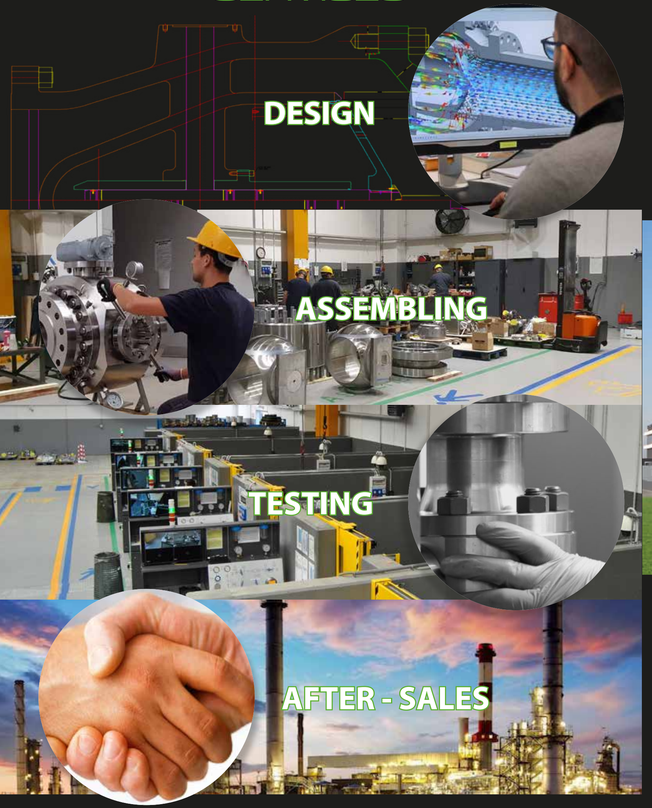
SERVICES



FG Valvole
SPECIAL VALVES

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

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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FG Valvole
SPECIAL VALVES

SPECIAL VALVES

APPLICATIONS

Trunnion side entry ball valve

SIZES: ½" – 60"
PRESSURE CLASSES: ANSI 150 – 4500
API 2000 – 20000
MAIN FEATURES AND OPTIONS:

- 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
- Single or Double Piston Effect Seat
- Double block and bleed
- Overlay on Sealing Surfaces Only
- Cladding in Seat Pocket Areas
- Fully Internally Clad
- Specific design for HIPPS, ESD application

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

Floating side entry ball valve

SIZES: ½" – 10"
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
- 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
- Overlay on dynamic sealing area
- Cladding in Seat Pocket Areas
- Fully Internally Clad
- Specific design for HIPPS, ESD application

Modular double block & bleed valve

SIZES: ½" – 24"
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
Ball/Ball
Ball/Globe

Choke valve

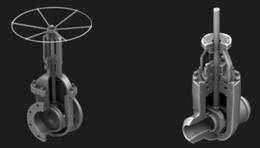
SIZES: 1" – 24" / 1.13/16" – 11"
PRESSURE CLASSES: ANSI 300 – 2500
API 3000 - 20000
MAIN FEATURES AND OPTIONS

- 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 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
- Design Range:
- - 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"

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"
- Design Range
  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

SIZES: 1.1/2" – 36"
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

Axial Flow valve

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

- Production / Treatment / Transmission and Transportation / Fire Pump
- Storage and distribution
- Anti surge / throttling service
- Choke and by-pass service
- Tank loading / venting and depressurization

MAIN FEATURES AND OPTIONS

- Valves for tight isolation service (ON-OFF)
- Valves for throttling service (FLOW CONTROL)
- Reduced valves stroke for quick closing time (SDV-HIPPS)
- Extended design life and low maintenance interventions
- Balanced-pressure disc design
- 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.

DESIGN OPTIONS

- PLUG TYPE TRIM DESIGN for large flow rate and high pressure drop
- (SINGLE) CAGE TRIM DESIGN for gas, liquid and mixed phases service where high pressure drop is predicted and noise level shall be limited
- (MULTI) CAGE TRIM DESIGN for high pressure drops and large flow rate. Multi cage trim can be sized to suit any specific flow condition with different characteristics

Nozzle Check valve

SIZES: ½" – 60"
PRESSURE CLASSES: ANSI 150 – 4500
API 2000 – 20000
MAIN FEATURES AND OPTIONS:

- Production Type:
  - Short pattern (std FGV) and long pattern (ANSI B16.10) design available
  - Metal Seated
  - Soft seated construction available for bubble-tight shutoff
  - Valve conduit contour designed to provide maximum fluid-dynamic efficiency
  - Different spring selection is available to suit the required range of flow rates, combining minimum pressure drop and no-chattering
- Disc Type: Non Slam Disc type for 1/2" to 60" size valves in all classes
- Design Range: Heavy wall Thickness Type (ISO 14313, API 594, API 6D, API 6A)

Top entry ball valve

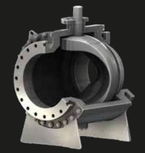
SIZES: ½" – 48"
PRESSURE CLASSES: ANSI 150 – 4500
API 2000 – 20000
MAIN FEATURES AND OPTIONS:

- 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

Silent Segment ball valve

SIZES: 1" – 92"
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



Pig valve

SIZES: 2" / 24"
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 Areas
- Fully Internally Cladded

Multiport valve

SIZES: ¾" – 14"
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

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

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 actuation force demand
- Disc Type: Double Disc Parallel Seats for 2" to 36" size valves in all classes
- Design Range:
  - API 6D, API 6A, ISO 10423
  - Wall Thickness according

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

Swing Check valve

SIZES: 1/2" – 60"
PRESSURE CLASSES: ANSI 150 – 4500
API 2000 – 20000
MAIN FEATURES AND OPTIONS

- Production Type: Bolted Bonnet and Pressure Seal design available
- Metal Seated
- Disc Type: Clapper Disc for ½" 60"
- Design Range
  Heavy wall Thickness Type (ISO14313, API 6D, API 6A, BS1868)
  Light wall Thickness Type (ASME B16.34, API 603)
- Material Selection: Carbon Steel, Low Alloy Steel, Stainless Steel, Duplex 22/25 Cr, Ni-Alloys and Titanium

Dual Plate / Tilting Disc Check valve

SIZES: 1/2" – 60"
PRESSURE CLASSES: ANSI 150 – 4500
API 2000 – 20000
MAIN FEATURES AND OPTIONS

- Production Type:
  DUAL
  Wafer and Monobloc body (Flanged/Hub Ends)
  Hing pins are retained into the body
  Lug type design option
  Disc type: Dual plates type for ½" to 60"

  TILTING
  Bolted Bonnet or Pressure Seal available
  Short pattern can be supplied Wafer type or Monobloc (Flanged)
  Disc type: Tilting Non Slam Disc Type for ½" to 60"
  Soft seated construction for bubble-tight shutoff
- Material Selection: Carbon Steel, Low Alloy Steel, Stainless Steel, Duplex 22/25 Cr, Ni-Alloys and Titanium
  Hardfacings: Stellite, Colmoloy, Tungsten and Chromium Carbides

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

PRODUCT

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