One of the most comprehensive component design and manufacture packages available today to the Oil and Petrochemical Industry is offered by Safelok Components.

Harnessing the demands of the industry for Total Quality Management (TQM), the Safelok indigenous quality philosophy provides a range of Valves and Instrumentation Fittings finished to the highest standards.

Also ideal for other industrial applications, where significant opportunities exist for component replacement and enhancement. Construction material specification includes Stainless Steel, Aluminium Bronze & Carbon Steel. A variety of alternative exotic material specifications are available eg. Monel, Hasteloy, Incoloy and Titanium.

Maintaining their TQM practices throughout the manufacturing process, Safelok ensure all materials utilised in the completion of major components are traceable. Copies of the original mill certificates are retained for future reference.

All products are manufactured in compliance with ISO 9002 / EN 29002 / BS 5750 PART2

Safeloks capabilities also extend to Instrumentation Procurement Packages for major Oil Companies and the Construction Industry, both in the United Kingdom and throughout the world.

SAFELOK

SAFELOK is a trade mark of Safelok Components Limited

BRITISH DESIGN AND MANUFACTURE
SAFELOK LIMITED is housed in a modern factory in Wigan, Lancashire, England. An area renowned for its manufacturing skills. It is also ideally situated to all major motorway networks and Manchester International Airport.

One of the most comprehensive component design and manufacture packages available today to the Oil and Petrochemical Industry is offered by Safelok Components.

Harnessing the demands of the industry for Total Quality Management (TQM), the Safelok indigenous quality philosophy provides a large range of Valves and Instrumentation Fittings to the highest standards to meet the ever increasing demand of the industry.

Safelok Products are available in the following materials:
Stainless Steel - Inconel 625 - Monel - Incoloy 825 - Hasteloy - Aluminium Bronze - Carbon Steel.
All products are manufactured in compliance with ISO 9001 - 2008.
Safelok is aware of its environmental commitments and all manufacturing procedures conform to ISO 14001 - 2004.

Safelok products have serviced the industry for over 25 years and we are proud of our achievements in acquiring many accreditations.
Safelok’s ball valves are designed to meet with the Zero Emissions Compliance now preferred by leading Oil and Gas companies throughout the world.

Precision manufactured with super finished components for high performance and long life incorporating pioneering design features and proven technology.

Features and Benefits
1. Lockable stainless steel handles fitted as standard to suit a 5mm hasp padlock.
2. Self compensating firesafe linear face seals for zero emission operation for the life of the valve.
3. Cup and cone stem seals for low torque operation and high pressure containment.
4. Blow out proof two piece stem.
5. Anti-static facility incorporated into the design.
6. Fully encapsulated ball seats to alleviate seat extrusion allow higher working pressures.
7. Backup Grafoil firesafe body and stem seals fitted as standard.

This ball valve is used throughout the range of Double Block and Bleed, Single Block and Bleed and Block valves illustrated within this catalogue in various forms and size ranges from standard 10mm bore size up to 2” full bore.

Large bore high pressure applications can be supplied in a trunnion mounted ball design to reduce operational torque.

Pressure rating up to 10,000 psig (680 bar) and temperature rating from -50°C to +240°C.

Independently tested and certified to Firesafe standards BS EN ISO 10497, API 607 and API 6FA.
Safelok’s Bolted Bonnet Needle Valves are designed to meet with the Zero Emissions Compliance now preferred by leading Oil and Gas companies throughout the world.

The revolutionary design of the valve means that it has automatic dynamic gland adjustment and is guaranteed for life against leakage.

This is possible by being precision manufactured with super finished components for high performance and long life incorporating pioneering design features and proven technology.

**Features and Benefits**

1. Stainless steel Tee bar handle engages directly with actuating stem and designed to prevent damage due to over torquing the valve.

2. Stainless steel Cap with seals to prevent the ingress of dust or corrosive media that could damage the actuating threads on the stem.

3. Four high tensile screws fasten the bonnet to the body thus creating the necessary safety factor in case of over pressurization of the valve assembly.

4. Stem and Needle knuckle joint above the gland to prevent either washout or contamination of the media. Gives a low torque operation of the valve and smooth linear operation of the needle.

5. Grafoil backup firesafe stem seals that are not contaminated with the media.

6. Dynamic pressure generated stem gland with preset loading for long life efficient operation.

7. Metal to metal firesafe sealing of the bonnet to body joint.

The Bolted Bonnet N08 Needle valve is used throughout the range of Double Block and Bleed and Single Block and Bleed valves illustrated within this catalogue as a vent valve with a standard 5mm orifice.

The larger more robust N20 model with a 8mm orifice is used as the primary and secondary isolation valves in all the FPN and QPN series valve assemblies.

Monflanges are fitted with a N20 model as the primary isolation valve.

Pressure rating up to 10,000 psig (680 bar) and temperature rating from -50°C to +240°C.

Independently tested and certified to Firesafe standards BS EN ISO 10497, API 607 and API 6FA.
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How to Order

Eg. Code: MFPD25FC15N15NS =
Flange to Pipe forged Double block and bleed Monoflange assembly
Needle/Needle/Needle configuration
Bolted Bonnet N20 Needle valve (8mm bore) as primary isolate valve
Anti Tamper Bonnet N08 Needle valve (5mm bore) as vent valve
Screwed Bonnet N08 Needle valve (5mm bore) as secondary isolate valve
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features
- One piece forged body, compact design for strength and reduced leak points
- Zero Emissions Bolted bonnet Primary Isolation Valve
- Zero Emissions Anti-Tamper bonnet Vent Valve with Key supplied separately for security reasons
- Zero Emissions Screwed bonnet Secondary Isolation Valve
- ¼” or ½” NPT Fem threaded outlet as standard
- ANSI B16.5 Flange Inlet Connections ¼” to 2” with pressure ratings of 150LB to 2500lb
- Firesafe Certified valves fitted as standard
MONOFLANGE
FLANGE TO PIPE
SINGLE BLOCK AND BLEED

How to Order

Eg Code: MFPS25FC15N15NS =
Flange to Pipe forged Single block and bleed Monoflange assembly
Needle/Needle configuration
Bolted Bonnet N20 Needle valve (8mm bore) as primary isolate valve
Anti Tamper Bonnet N08 Needle valve (5mm bore) as vent valve
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features
- One piece forged body, compact design for strength and reduced leak points
- Zero Emissions Bolted bonnet Primary Isolation Valve
- Zero Emissions Anti-Tamper bonnet Vent Valve with Key supplied separately for security reasons
- ½” NPT Fem threaded outlet as standard
- ¼” or ½” NPT Fem threaded Vent fitted with Pipe plug
- ANSI B16.5 Flange Inlet Connections ½” to 2” with pressure ratings of 150LB to 2500lb
- Firesafe Certified valves fitted as standard

Product Coding

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MFPS SAFELOK
How to Order

Eg Code: MFPB25FC15NS =
Flange to Pipe forged block valve Monoflange assembly
Needle valve configuration
Bolted Bonnet N20 Needle valve (8mm bore) as isolate valve
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features

- One piece forged body, compact design for strength and reduced leak points
- Zero Emissions Bolted bonnet Primary Isolation Valve
- ½” NPT Fem threaded outlet as standard
- ANSI B16.5 Flange Inlet Connections ½” to 2” with pressure ratings of 150LB to 2500lb
- Firesafe Certified valve fitted as standard
How to Order

**Eg Code:** FPBD25FC15N15NS =

- Flange to Pipe forged Double block and bleed valve assembly
- Ball/Needle/Ball configuration
- Ball valve as primary isolate valve
- Needle valve vent
- Ball valve as secondary isolate valve
- Inlet: ASME B16.5 Flanged 1" 1500lb RTJ
- Vent: ½" NPT Female (plugged)
- Outlet: ½" NPT Female
- Material: Stainless Steel 316L

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**Product Coding**

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<tr>
<th>SERIES</th>
<th>INLET SIZE</th>
<th>RATING</th>
<th>FACE</th>
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<th>VENT SIZE</th>
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**Features**

- One piece forged body
- Ball valves - Floating ball type 10mm bore
- Patented 2 piece ‘Blow out proof’ stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handles
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA
How to Order

Eg Code: FPBS25FC15N15NS =
Flange to Pipe forged Single block and bleed valve assembly
Ball/Needle configuration
Ball valve as primary isolate valve
Needle valve vent
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features
- One piece forged body
- Ball valve - Floating ball type 10mm bore
- Patented 2 piece ‘Blow out proof’ stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handle
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA

Product Coding

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**How to Order**

Eg Code: FPBB25FC15NS =
Flange to Pipe forged block valve assembly
Ball valve as isolate valve
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ½” NPT Female
Material: Stainless Steel 316L

**Product Coding**

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<th>RATING</th>
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**Features**

- One piece forged body
- Ball valve - Floating ball type 10mm bore
- Patented 2 piece ‘Blow out proof’ stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handle
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA
FLANGE TO PIPE
NEEDLE VALVE
DOUBLE BLOCK AND BLEED

How to Order

Eg Code: FPND25FC15N15NS =
Flange to Pipe forged Double block and bleed valve assembly
Needle/Needle/Needle configuration
N20 Bolted Bonnet Needle valve as primary isolate valve
N08 Bolted Bonnet Needle valve vent.
N20 Bolted Bonnet Needle valve as secondary isolate valve
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features

- Compact Design one piece forged body
- 8mm bore Bolted Bonnet Needle Valves for primary and secondary isolation,
- 5mm bore Bolted Bonnet Needle Valve Vent,
- Dynamic gland with Grafoil firesafe stem seal
- Two piece stem with non-rotating needle
- Design Code ASME B16.34, API 6D, EEMU A 182
- Firesafe certified to BS-EN 10497 / API 6FA

Product Coding

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FLANGE TO PIPE
NEEDLE VALVE
SINGLE BLOCK AND BLEED

How to Order

Eg Code: FPNS25FC15N15NS =
Flange to Pipe forged Single block and bleed valve assembly
Needle/Needle configuration
N20 Bolted Bonnet Needle valve as primary isolate valve
N08 Bolted Bonnet Needle valve vent.
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features

- Compact Design one piece forged body
- 8mm bore Bolted Bonnet Needle Valves for primary isolation
- 5mm bore Bolted Bonnet Needle Valve Vent
- Dynamic gland with Grafoil firesafe stem seal
- Two piece stem with non-rotating needle
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA

Product Coding

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How to Order

Eg. Code: FPNB25FC15NS =
Flange to Pipe forged block valve assembly
N20 Bolted Bonnet Needle valve as primary isolate valve
Inlet: ASME B16.5 Flanged 1” 1500lb RTJ
Outlet: ½” NPT Female
Material: Stainless Steel 316L

Features

- Compact Design one piece forged body
- 8mm bore Bolted Bonnet Needle Valves for isolation
- Dynamic gland with Grafoil firesafe stem seal
- Two piece stem with non-rotating needle
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA
FLANGE TO FLANGE
BALL VALVE
DOUBLE BLOCK AND BLEED

How to Order

Eg Code: FFBD50FC25FC15NS =
Flange to Flange forged Double block and bleed valve assembly
Ball/Needle/Ball configuration
Ball valve as primary isolate valve
Needle valve vent
Ball valve as secondary isolate valve
Standard 10mm thru bore
Inlet: ASME B16.5 Flanged 2” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ASME B16.5 Flanged 1” 1500LB RTJ
Material: Stainless Steel 316L

Features
- One piece forged body
- Ball valves - Floating ball type 10mm bore
- Patented 2 piece 'Blow out proof' stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handles
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA

Product Coding

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Eg Code: FFBD50FC25FC15NS =
Flange to Flange forged Double block and bleed valve assembly
Ball/Needle/Ball configuration
Ball valve as primary isolate valve
Needle valve vent
Ball valve as secondary isolate valve
Standard 10mm thru bore
Inlet: ASME B16.5 Flanged 2” 1500lb RTJ
Vent: ½” NPT Female (plugged)
Outlet: ASME B16.5 Flanged 1” 1500LB RTJ
Material: Stainless Steel 316L
FLANGE TO FLANGE
BALL VALVE
SINGLE BLOCK AND BLEED

Product Coding

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How to Order

Eg Code: FFBS550FC25FC15NS =
Flange to Flange forged Single block and bleed valve assembly
Ball/Needle configuration
Ball valve as primary isolate valve
Needle valve vent
Standard 10mm thru bore
Inlet: ASME B16.5 Flanged 2" 1500lb RTJ
Vent: ½" NPT Female (plugged)
Outlet: ASME B16.5 Flanged 1" 1500LB RTJ
Material: Stainless Steel 316L

Features

- One piece forged body
- Ball valve - Floating ball type 10mm bore
- Patented 2 piece ‘Blow out proof’ stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handle
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA
FLANGE TO FLANGE
FULL BORE
DOUBLE BLOCK AND BLEED

How to Order

Eg Code: FBBD50BA50BA15NS =
Full Bore Flange to Flange Forged Double Block and Bleed valve assembly
Ball/Needle/Ball configuration
Full Bore Ball valve as primary isolate valve
Needle valve vent
Full Bore Ball valve as secondary isolate valve
Inlet: ASME B16.5 Flanged 2” 300lb RF
Vent: ½” NPT Female (plugged)
Outlet: ASME B16.5 Flanged 2” 300lb RF
Material: Stainless Steel 316L

Features
- One piece forged body
- Ball valves - Floating ball type Full bore
- Patented 2 piece ‘Blow out proof’ stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handles
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
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16 /
FLANGE TO FLANGE
FULL BORE
SINGLE BLOCK AND BLEED

How to Order

Eg. Code: FBBS50BA50BA15NS =
Full Bore Flange to Flange Forged Single Block and Bleed valve assembly
Ball/Needle configuration
Full Bore Ball valve as primary isolate valve
Needle valve vent
Inlet: ASME B16.5 Flanged 2" 300lb RF
Vent: ½" NPT Female (plugged)
Outlet: ASME B16.5 Flanged 2" 300lb RF
Material: Stainless Steel 316L

Features
- One piece forged body
- Ball valve - Floating ball type Full bore
- Patented 2 piece ‘Blow out proof’ stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handle
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA

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How to Order

Eg. Code: QPBD25FC15N15NS =
Flange complete with Injection Quill to Pipe forged Double block and bleed valve assembly
Ball/Needle/Ball configuration
Ball valve as primary isolate valve
Needle valve vent or sample
Ball valve as secondary isolate valve
Inlet: ASME B16.5 Flanged 1" 1500lb RTJ
Vent: ½" NPT Female (plugged)
Outlet: ½" NPT Female
Material: Stainless Steel 316L

Features
- One piece forged body
- Length of quill and supports to be specified at time of order
- Finer control of either venting or sampling via Needle Valve
- Ball valves - Floating ball type 10mm bore
- Patented 2 piece 'Blow out proof' stem
- Renewable encapsulated PEEK seats
- AED grade high performance stem seals
- Backup firesafe Grafoil stem and body seals
- Anti-Static design ball seats
- Lockable stainless steel lever handles
- Bolted bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA
**QUILL TO PIPE**

**NEEDLE VALVE**

**DOUBLE BLOCK AND BLEED**

---

**How to Order**

Eg Code: QPND25FC15N15NS =

Flange complete with Injection Quill to Pipe forged Double block and bleed valve assembly

Needle/Needle/Needle configuration

N20 Bolted Bonnet Needle valve as primary isolate valve

N08 Bolted Bonnet Needle valve vent or sample

N20 Bolted Bonnet Needle valve as secondary isolate valve

Inlet: ASME B16.5 Flanged 1” 1500lb RTJ

Vent: ½” NPT Female (plugged)

Outlet: ½” NPT Female

Material: Stainless Steel 316L

---

**Features**

- One piece forged body
- Injection quill as part of body for strength and safety
- Length of quill and supports to be specified at time of order
- Finer control of either injection or sampling via Needle Valve
- 8mm bore Bolted Bonnet Needle Valves for primary and secondary isolation
- 5mm bore Bolted Bonnet needle valve vent
- Two piece stem with non-rotating needle
- Dynamic gland with Grafoil firesafe stem seal
- Design Code ASME B16.34, API 6D, EEMUA 182
- Firesafe certified to BS-EN 10497 / API 6FA

---

**Product Coding**

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Safelok's International Network

Safelok valves and fittings have been used on major projects worldwide for over a quarter of a century.

TODAYS TECHNOLOGY
Emission Free Valves - With a Lifetime Guarantee

THE WORLDS BEST - A STEP ABOVE THE REST.
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- **Instrumentation**
- **Ball Valves**
- **Needle Valves & Manifolds**
- **Pipe Fittings**
- **Admiralty Bronze Tube Fittings**
- **316 Stainless Steel**
- **High Duty Bronze**
- **Instrumentation**
- **Tube Fittings**
- **316 Stainless Steel**
- **Tube Fittings**
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ENGLAND

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FAX: +44 (0)1942 218012

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e-mail: enq@safelok.com