Fittings & Valves
For Instrumentation, Hydraulic & Pneumatic Applications

www.sealexcel.com
The secret of our success is our engineering expertise, product accuracy, consistency, timely delivery and prompt communications.

ABOUT US

SEALEXCEL® (INDIA) PVT. LTD. A fast growing manufacturing company of repute having more than 2 decades of experience and expertise in manufacturing and marketing high quality Fittings and Valves suitable for Instrumentation, Hydraulic and Pneumatic applications, for industries like Automobile, Chemical, Petrochemical, oil & Gas, nuclear, Power Plant, Pharmaceutical, Marine, Packaging, Printing Industries etc.

We have three fully well equipped modern inhouse manufacturing facilities in India with highly motivated team of employees and up to date technology assisting us to achieve reliable products at competitive price with better product flexibility, consistency and optimum service.

DESIGN, RESEARCH AND DEVELOPMENTS

With our long experience and expertise, we carefully study the applications and criticality of each and every component of all our products specially for surface finish, run out, sharp edges, critical dimensions etc. With due care, we design our products using the latest Cad and Cam System with continuous Research and Development Programme to withstand the need of high performance world class consistent quality products and tested to rigid testing procedures including helium leak detection and Hydrostatics Burst Pressure test to check and verify the maximum safety and reliability of our products in deep vacuum and high pressure applications.
Our manufacturing expertise, capability and commitment for quality allows us to meet the most stringent demands of our customers.

MANUFACTURING

We manufacture each and every component of our products in our own manufacturing facilities using various CNC Lathes, VMC Lathes, and Auto screw machines etc. to very close tolerances by closely monitoring critical dimensions, surface finishes, run out, sharp edges etc. after referring and meeting the requirements as per drawing, under rigid quality controlled procedures approved to ISO 9001 : 2008, PED 97/23/EC, and ATEX 94/9/EC which ensures consistent quality and high performance products.

QUALITY

SEALEXCEL® has total quality management culture from the incoming high quality heat code traceable raw material to finish products ensuring our commitment to efficient and high quality products compatible with ISO 9001 : 2008, PED 97/23/EC, and ATEX 94/9/EC. This is achieved by continuous improving the products, process and systems.

At every stage, we have controlled quality checks so that all our supplies reaches to our customers with zero defect.
Our Aim is to satisfy our customers with our World Class quality products combined with competitive price.

TESTING FACILITIES

We have Inhouse testing Facilities to check, verify and confirm the guarantee of high quality, safety, consistency and maximum reliability in accordance with ASTM F1387-99 (2005), ECE R110, ISO 15500, BS4368 : 4 : 1984, MSS-SP-99-2010 etc.

- Helium leak Test.
- Hydro Static Proof Pressure Test.
- Pneumatic (Nitrogen) Proof Pressure Test.
- Pressure Impulse and Vibration Test.
- Burst Pressure Test.
- Temperature Cycling Test.
- Rotary Flex Test.
- Flexure and Fatigue Test.
- Make and Remake Test.

The above tests are carried out on regular basis.

PACKAGING

All exposed threads of the products are protected with plastic caps to prevent damage and each assembly is packed in sealed and clear polyethylene bag for cleanliness and carefully packed in cardboard boxes to prevent transit damage. Each and every package is labeled for proper and easy identification.
The Total quality and innovation are our strength for future business with you.

QUALITY CERTIFICATIONS

SEALEXCEL’s total quality management and culture associated with Design, Research & Development, established manufacturing process inclusive of rigid quality check at every stage of manufacturing, and requisite inhouse testing facilities ensures high quality and zero defect products.

Our total quality system, control and culture has earned us various quality and type approval certifications as shown below.

- ISO 9001 : 2008 Q.S.
- PED 97/23/EC For SEALEXCEL Tube Fittings
- PED 97/23/EC For SEALEXCEL Instrumentation & Pneumatic Valves
- ATEX 94/9/EC For SEALEXCEL Instrumentation & Pneumatic Valves
- Type approval to ECE Regulation No 110 and ISO 15500 for SEALEXCEL “Well-Lok” Twin Ferrule Tube Fittings used in Natural Gas and Hydrogen applications.
- Type approval to ASTM F1387-99(2005) for SEALEXCEL "Well-Lok" Twin Ferrule Tube Fittings used in Instrumentation and Tubing system applications within Oil, Gas, Petrochemical, Nuclear, Power Plant, Hydraulic, Marine Industries etc.
- Type approval to BS 4368:4 : 1984 for SEALEXCEL "Well-Lok" Twin Ferrule Tube Fittings used in Marine, Off-shore and Industrial piping system applications.
- Type approval to BS 4368:4 : 1984 for SEALEXCEL "Bite-Lok" Single Bite Ring Tube Fittings used in Marine, Off-shore and Industrial piping system applications.
- Helium Leak Test for SEALEXCEL "Well-Lok" Twin Ferrule Tube Fittings

The above certifications confirm that, SEALEXCEL Fittings and Valves meets the international specifications requirements for high quality products ensuring maximum reliability, consistency, safety and high performance.
Our Broad Product range serves wide variety of applications.

For Instrumentation Applications

- WELL-LOK® TUBE FITTINGS
  - Page: 9 - 11
- FINE-LOK® TUBE FITTINGS
  - Page: 12
- PRECISION PIPE FITTINGS
  - Page: 12
- BALL VALVES (Medium Pressure)
  - Page: 13
- BALL VALVES (High Pressure)
  - Page: 13 - 14
- NEEDLE VALVES
  - Page: 14
- NEEDLE VALVES
  - Page: 15 - 17
- RISING STEM PLUG VALVES
  - Page: 17
- GAUGE / ROOT VALVES
  - Page: 18
- PURGE VALVES
  - Page: 18
- BLEED VALVES
  - Page: 19
- TOGGLE VALVES
  - Page: 19
- CHECK VALVES
  - Page: 20
- MICRON IN-LINE FILTERS
  - Page: 20
- MANIFOLD VALVES
  - Page: 21

For Hydraulic Applications

- 37° FLARE TUBE FITTINGS
  - Page: 22
- BITE-LOK® TUBE FITTINGS
  - Page: 22
- PUSH-IN-FITTINGS
  - Page: 26 - 27
- PUSH-ON-FITTINGS
  - Page: 28
- CHECK VALVES
  - Page: 28
- QUICK CONNECT COUPLINGS
  - Page: 23
- SWIVEL JOINTS
  - Page: 23
- FLOW CONTROL REGULATORS
  - Page: 29
- QUICK EXHAUST VALVES
  - Page: 29
- QUICK CONNECT COUPLINGS
  - Page: 30

For Pneumatic Applications
Fittings & Valves
For
Instrumentation Applications

Advanced Technology in design, development and production of
Fittings and Valves for Instrumentation, Process Tubing etc.
ensure
A TOTAL CUSTOMER SATISFACTIONS
SEALEXCEL® is Cost Effective Source For World Class Consistent Quality, Reliability And High Performance Fittings And Valves For It's Customer's

A TRUE PARTNER
SEALEXCEL® Well-Lokã Twin Ferrule Compression Tube Fittings have been carefully designed and manufactured to close tolerances to provide leak-free performance in Instrumentation, process tubing, etc. SEALEXCEL® Well-Lokã Tube Fittings are type approved to ECE R110, ISO 1500, ASTM F1387-99 (2005), BS4368 part 4:1984, and Helium Leak Test. These Certificates confirm that SEALEXCEL® Well-Lokã Twin Ferrule Tube Fittings meet the international specifications requirements for high quality products ensuring maximum reliability, consistency, safety, and high performance.

Features:
- Available in SS316L
- Heat Code Traceable to certified material test reports
- Low torque assembly
- Internally silver plated nuts
- Positive leak-free seal
- Peak of back ferrules are case hardened
- Variety of end connections
- Available Fractional Size: 1/8” to 1 1/2” Tube OD
  Metric Size: 3mm to 38mm Tube OD
- Stainless Steel Front Ferrule size above 25mm at 1” ODT are PFA coated, Silver plated for application above 232°C, add “HT” to the basic part number for high temperature operation.

Operating Parameters:
- Pressure Rating: up to 10000 psig (Depending on size)
- Temperature Rating: up to 426°C

SEALEXCEL® Well-Lokã Twin Ferrule Tube Fittings undergo the following precision performance test on a regular basis to ensure maximum reliability and high performance products.

<table>
<thead>
<tr>
<th>Features</th>
<th>Description</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Helium Leak Detection Test</td>
<td>SEALEXCEL® Well-Lokã Twin Ferrule Tube Fittings offers deep vacuum capability with good quality tubing and will be leak tight at vacuum level of 10⁻⁹ torr. This test was conducted in-house with ASM 142 Helium Leak Detector (Alcatel)</td>
<td>Ensures maximum safety and reliability in deep vacuum applications.</td>
</tr>
<tr>
<td>Burst Pressure Test</td>
<td>SEALEXCEL® Well-Lokã Twin Ferrule Tube Fittings have been tested to tube burst i.e. 4 x permissible working pressure of the tube. RESULT: No leakage, cracks or damage were detected in the Tube Fittings throughout the test.</td>
<td>Ensures maximum safety and reliability in high pressure applications.</td>
</tr>
</tbody>
</table>

The above test result shows that, SEALEXCEL Well-Lok Twin Ferrule Tube Fittings are of World Class consistent quality and reliable products for Instrumentation, Process Tubing etc.
# FEATURES AND BENEFITS OF SEALEXCEL® Well-Lok™ TWIN FERRULE TUBE FITTINGS

**Hand Assembled-Well-Lok™ Fitting & Tube**

**Fully Assembled-Well-Lok™ Fitting & Tube**

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>DESCRIPTION</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATERIAL TRACEABILITY</strong></td>
<td>SEALEXCEL® Well-Lok™ Twin Ferrule Tube Fittings bodies and Nuts in Stainless Steel 316 are heat code traceable to certified material test report</td>
<td>Traceability provides and ensures extra safety capability.</td>
</tr>
<tr>
<td><strong>NUT</strong></td>
<td>The compression Nuts are internally silver plated.</td>
<td>Reduce the torque during the assembly and also extend the fittings life by preventing galling across a wide range of temperatures.</td>
</tr>
<tr>
<td><strong>BACK FERRULES</strong></td>
<td>Precision machined and peak of Back Ferrules are case hardened.</td>
<td>• Strong tube grip</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Excellent vibration resistance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Ensure high performance</td>
</tr>
</tbody>
</table>
## WELL-LOK™ TWIN FERRULE COMPRESSION TUBE FITTINGS

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>DESCRIPTION</th>
<th>BENEFITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT FERRULES</td>
<td>Front Ferrules are <strong>precision machined</strong> with <strong>sharp and uniform biting edge</strong> and also the material used is having hardness more than the hardness of tube recommended.</td>
<td>Ensure precision leak free connection between Tube and body resulting <strong>leak tight Gas seal</strong></td>
</tr>
<tr>
<td>SIZING ANGLE</td>
<td><strong>SEALEXCEL®</strong> provides a <strong>slight taper</strong> in the base of the tube socket in the Fitting body.</td>
<td>Reduces the possibility of the tube <strong>sticking in Body</strong> during disassembly</td>
</tr>
<tr>
<td>GAUGEABILITY</td>
<td><strong>SEALEXCEL®</strong> manufacture each and every components of Tube Fittings to very <strong>close tolerances</strong></td>
<td>Gaugeability ensures consistent quality and allows easy inspection for proper installation before a system is pressurized.</td>
</tr>
<tr>
<td>INTERCHANGEABILITY</td>
<td>The Design of <strong>SEALEXCEL®</strong> Well-Lok™ Twin Ferrule Tube Fittings are <strong>similar</strong> to certain other well-known Fittings manufacturers including Swagelok®, Parker A-Lok® etc.</td>
<td><strong>SEALEXCEL®</strong> guarantee the functional interchangeability with certain other well-known fittings manufacturers without disturbing the performance and reliability</td>
</tr>
<tr>
<td>PIPE THREADS</td>
<td>Manufactured to <strong>maximum tolerances</strong>.</td>
<td>Ensure to have maximum thread engagement ensuring robust and safe connection.</td>
</tr>
</tbody>
</table>
FINE-LOK® SINGLE FERRULE TUBE FITTINGS

SEALEXCEL® Fine-Lok® Single Ferrule Tube Fittings have been carefully design and manufactured to close tolerances to provide leak free performance in control system, process instrumentation devices etc. The components of Fine-Lok® Tube Fittings and Well-Lok® Twin Ferrule Tube Fittings are totally interchangeable with each other.

FEATURES
• Available in SS316L
• Heat Code Traceable to certified material test report
• Low torque assembly
• Positive leak-free seal
• Variety of end connections
• Available Fractional Size : 1/8” to 1” Tube OD
  Metric Size : 3mm to 25mm Tube OD
• Taper pipe threads are machined to maximum tolerances to have maximum thread engagement

OPERATING PARAMETERS
Pressure Rating : upto 10000 psig (Depending on size)
Temperature Rating : upto 426°C

See SEALEXCEL® Catalogue No. 0406/TF for full details.

PRECISION PIPE FITTINGS

SEALEXCEL Precision Pipe Fittings are designed and manufactured for instrumentation and process control connections between pipe.

FEATURES
• Available in SS316L
• Heat Code Traceable to certified material test report
• Low torque assembly
• Positive leak-free seal
• Working pressure calculated in accordance with power piping code ANSI B31-1 and refinery piping code ANSI B31-3
• Precision thread construction to maximum tolerances to have maximum thread engagement which ensure leak-free, robust and safe connection.
• Available Size : 1/8” to 1” pipe thread

OPERATING PARAMETERS
Pressure Rating : upto 10000 psig (Depending on size)
Temperature Rating : upto 426°C

See SEALEXCEL® Catalogue No. 02-06/PPF for full details.
BALL VALVES : SERIES - BV101

FEATURES
- Available in SS316
- Heat Code Traceable to certified material test report
- Simple design with one piece Body
- Bi-directional Flow
- One piece ball stem
- Low torque and easy operation
- Panel mountable
- Handles indicates flow direction
- Straight and angle Patterns
- Variety of end configurations includes
  SEALEXCEL Well-Lok® Tube Fittings, Male / Female
  NPT, BSPT, BSPP pipe connections
- Available Fractional Size : 1/8" to 3/4" Tube OD
  Metric Size : 3 mm to 12 mm Tube OD
  1/8" to 1/2" Pipe Thread
- Every valve is factory tested

APPLICATION
- Instrument Air Lines
- General Plant Service
- High Pressure Instrument Lines

OPERATING PARAMETERS
Pressure Rating : upto 3000 psig (205 bar) at CWP
Temperature Rating : -54°C to 149°C with PTFE packing

See SEALEXCEL® Catalogue No. VI-611 for full details.

BALL VALVES : SERIES - BV103 (For High Pressure Applications)

FEATURES
- Available in SS316
- Heat Code Traceable to certified material test report
- Two piece body design, Bi-directional Flow
- PTFE or PEEK Ball Seat, Bubble tight shut-off
- Anti blow-out stem, Low torque operation
- Floating ball design provides seat wear compensation
- Quarter turn positive stop handle
- Connector thread environmentally sealed
- Variety of end configurations includes
  SEALEXCEL® Well-Lok® Tube Fittings, Male/Female
  NPT, BSPT pipe connection
- 10 mm bore ball
- Available Fractional Size : 1/4" to 3/4" Tube OD
  Metric Size : 6 mm to 12 mm Tube OD
  1/4" to 1/2" Pipe Thread
- Every valve is factory tested

APPLICATION
- Instrument Air Lines
- General Plant Service
- High Pressure Instrument Lines

OPERATING PARAMETERS
Pressure Rating : upto 4000 psig (272 bar) at CWP with PTFE packing and seat
Temperature Rating : -54°C to 204°C with PTFE packing and seat
-54°C to 232°C with PTFE packing and Peek seat

See SEALEXCEL® Catalogue No. VI-611 for full details.
**OPERATING PARAMETERS**

**BALL VALVES**: SERIES - BV105

- **Pressure Rating**: upto 2500 psig (170 bar) at CWP with PTFE packing and seat
- **Temperature Rating**: -54°C to 180°C with PTFE packing and seat

**NEEDLE VALVES**: SERIES - INV01

- **Pressure Rating**: upto 5000 psig (340 bar) at CWP
- **Temperature Rating**: -54°C to 232°C with PTFE Packing

**FEATURES**

- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Low operating Torques
- Forged Body, straight and Angle patterns
- Panel mountable
- Variety of stem tips
- PTFE packing standard
- Flow coefficient (Cv) from 0.09 to 1.8
- Orifice size: 0.078" (2mm), 0.172" (4.4mm), 0.250" (6.4mm), 0.375" (9.5mm)
- Variety of end configurations includes SEALEXCEL® Well-Lokâ Tube Fittings, Male/Female NPT, BSPT and BSPP pipe connections
- Available Fractional Size: 1/8" to 3/4" Tube OD
- Metric Size: 3 mm to 16 mm Tube OD
- 1/8" to 1/2" Pipe Thread

**APPLICATION**

- CNG and other Gases
- General Plant Service
- Instrument Isolation
- Hydraulic and pneumatic
- Pressure measurement devices
- Venting

See SEALEXCEL® Catalogue No. VI-611 for full details.
NEEDLE VALVES : SERIES - BS01

FEATURES
• Available in SS316, all wetted parts in accordance with NACE MR01-75
• Heat Code Traceable to certified material test report
• Low operating torques, PTFE packing standard
• Bar stock Body in Straight Patterns, Panel mountable
• Anti Blow-out stem, Variety of stem tips
• Flow coefficient (Cv) From 0.35 to 1.8
• Orifice size : 0.156" (4.0 mm), 0.250" (6.4mm), 0.375" (9.5mm)
• Variety of end configuration includes
SEALEXCEL® Well-Lok® Tube Fittings, Male / Female NPT, BSPT, BSPP pipe and tube socket weld connections
• Available Fractional Size : 1/4" to 3/4" Tube OD
  Metric Size : 6 mm to 12 mm Tube OD
  1/8" to 3/4" Pipe Thread
• Every valve is factory tested

APPLICATION
• Hydraulic and Pneumatic
• Instrument Isolations
• Venting
• General Plant Service
• Pressuring measurement devices

NEEDLE VALVES : SERIES - BS03

FEATURES
• Available in SS316, all wetted parts in accordance with NACE MR01-75
• Heat Code Traceable to certified material test report
• Low operating torques
• Bar stock Body in Straight Patterns
• Anti Blow-out stem, Variety of stem tips
• PTFE packing standard
• Flow coefficient (Cv) From 0.35 to 1.8
• Orifice size : 0.156" (4.0 mm), 0.250" (6.4mm), 0.375" (9.5mm)
• Variety of end configuration includes
SEALEXCEL® Well-Lok® Tube Fittings, Male / Female NPT, BSPT, BSPP pipe and tube socket weld connections
• Available Fractional Size : 1/4" to 3/4" Tube OD
  Metric Size : 6 mm to 12 mm Tube OD
  1/8" to 3/4" Pipe Thread
• Every valve is factory tested

APPLICATIONS
• General Plant Service
• Instrument Isolations
• Hydraulic and Pneumatic
• Pressuring measurement devices
• Venting

See SEALEXCEL® Catalogue No. VI-611 for full details.
NEEDLE VALVES: SERIES - BS05

OPERATING PARAMETERS

Pressure Rating : upto 6000 psig (408 bar) at CWP
Temperature Rating : -54°C to 232°C with standard PTFE packing
up to 426°C with optional Graphite packing

FEATURES
- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Bar Stock Body Straight and angle patterns
- Panel Mountable
- Rolled and plated thread for greater strength and smoother operation
- Packing below the threads prevents lubricant washout
- Variety of end configurations includes SEALEXCEL® Well-Lok® Tube Fittings, Male/Female NPT, BSPT, BSPP pipe and tube socket weld connections
- Flow coefficients (Cv) from 0.35 to 2.2
- Orifice size : 0.156” (4mm), 0.250” (6.4mm) and 0.437” (11mm)
- Available Fractional Size : 1/4” to 3/4” Tube OD
  Metric Size : 6 mm to 16 mm Tube OD
  1/8” to 3/4” Pipe Thread

APPLICATION
- Hydraulic and Pneumatic
- Instrument Isolations
- Venting
- General Plant Service
- Pressuring measurement devices

See SEALEXCEL® Catalogue No. VI-611 for full details.

NEEDLE VALVES: SERIES - BS31 (For High Pressure Applications)

OPERATING PARAMETERS

Pressure Rating : Upto 10,000 psig (680 bar) at CWP
Temperature Rating : -54°C to 232°C with standard PTFE packing
up to 426°C with optional Graphite packing

FEATURES
- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Bar Stock Body Straight patterns, Panel mountable
- Rolled and plated thread for greater strength and smoother operation
- Packing below the threads prevents lubricant washout
- Variety of end configurations includes SEALEXCEL® Well-Lok® Tube Fittings Male/Female NPT, BSPT, BSPP pipe and tube socket weld connections
- Hardened Stem Tip
- Flow coefficients (Cv) from 0.35 to 0.86
- Orifice size : 0.156” (4mm) and 0.250” (6.4mm)
- Available Fractional Size : 1/4” to 1/2” Tube OD
  Metric Size : 6 mm to 12 mm Tube OD
  1/8” to 1/2” Pipe Thread
- Every valve is factory tested.

APPLICATION
- General Plant Service
- Instrument Isolations
- Venting
- Hydraulic and Pneumatic
- Pressure measurement devices

See SEALEXCEL® Catalogue No. VI-611 for full details.
NEEDLE VALVES: SERIES - BS99
(For High Pressure Applications)

FEATURES
- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Low operating torque
- Bar Stock Body in Straight Pattern, Panel mountable
- Rolled and plated threads for greater strength and smoother operation.
- Packing below the threads prevents lubricant washout.
- Anti Blow-out stem provides positive back seal in full open position.
- Stem packing below the threads protect the flow stream from lubricant contamination on the threads or washout and also protect stem thread from potential damaging effect of the media.
- Viton® O-Ring and back-up Ring seal.
- Variety of stem tips to provide greater flexibility
- Orifice size: 0.156” (4mm) and 0.250” (6.4mm)
- Flow coefficients (Cv) from 0.35 to 0.86
- Variety of end configurations includes Male/Female NPT, BSP, pipe connections.
- Available Size: 1/4” to 1/2” Pipe Thread
- Every valve is factory tested.

OPERATING PARAMETERS
Pressure Rating: Upto 10,000 psig (680 bar) at CWP
Temperature Rating: Upto 120° C with Viton® ‘O’ Ring

APPLICATION
- General Plant Service
- Pressure measurement devices
- Hydraulic and Pneumatic
- Venting

See SEALEXCEL® Catalogue No. VI-611 for full details.

RISING STEM PLUG VALVES: SERIES - RSV111

FEATURES
- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Bar Stock Body Straight Patterns
- Straight through orifice hence roddable for easy cleaning
- Replaceable seals and seats
- Stem dust seal protect stem from external contamination.
- Rolled and plated thread for greater strength and smoother operation
- Packing below the threads prevents lubricant washout.
- Panel mounted feature option
- Gauge ports available
- Variety of end configuration includes SEALEXCEL® Well-Lok® Tube Fittings, Male / Female NPT, BSPT and BSPP pipe connection.
- Orifice size: 0.187” (4.8mm) and 0.250” (6.4mm)
- Available Size: 1/4” to 3/4” Pipe Thread
- Every valve is factory tested

OPERATING PARAMETERS
Pressure Rating: Upto 6000 psig (408 bar) at CWP
Temperature Rating: -29°C to 204°C with PEEK or Acetal seat material and Viton® or Kalrez® O-Rings

APPLICATIONS
- General Plant Service
- Instrumentation
- Pressure measurement devices
- Venting

See SEALEXCEL® Catalogue No. VI-611 for full details.
GAUGE/ROOT VALVES : SERIES - GRV11

FEATURES
- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Rolled and plated threads for greater strength and smoother operation.
- Packing below the threads prevents lubricant washout.
- Bar Stock Body straight pattern
- 1/2" and 3/4" Male to 1/2" Female end connections
- 1/2" Female gauge port standard
- Non rotating self centering stem tips
- Every valve is factory tested

OPERATING PARAMETERS
Pressure Rating : upto 6000 psig (408 bar) at CWP
Temperature Rating : -54°C to 232°C with standard PTFE packing

APPLICATION
- General Plant service
- Instrument Isolation
- Hydraulic and Pneumatic
- Pressure measurement devices
- Venting

See SEALEXCEL® Catalogue No. VI-611 for full details.

PURGE VALVES : SERIES - PGV

FEATURES
- Available in SS316L
- Heat Code Traceable to certified material test report
- Compact and convenient installation
- Vent hole in the cap bleeds, drains or purges system pressure
- Cap is crimped to valve body to prevent accidental disassembly
- Require only quarter turn with a wrench from finger tight position to ensure a leak tight seal
- Variety of end configurations includes SEALEXCEL® Well-Lok®, Tube Fittings Male/Female NPT and SAE pipe connections
- Available Fractional Size : 1/8" to 1/2" Tube OD
  Metric Size : 6 mm to 10 mm Tube OD
  1/8" to 1/2" Pipe Thread
- Every valve is factory tested

OPERATING PARAMETERS
Pressure Rating : upto 4000 psig (276 bar) at CWP
Temperature Rating : -54°C to 232°C

APPLICATIONS
- General Plant Service
- Instrumentation
- Hydraulic and Pneumatic
- Venting

See SEALEXCEL® Catalogue No. VI-611 for full details.
BLEED VALVES : SERIES - BLV

FEATURES
- Available in SS316L
- Heat Code Traceable to certified material test report
- Compact and convenient installation
- Vent tube design prevents accidental removal of the stem
- Vent tube directs excess liquid or gas from system line
- Flow coefficient (Cv) 0.25
- Orifice size 0.125” (3.20mm)
- Variety of end configurations includes Male NPT, BSPT and SAE pipe connections
- Available Size : 1/8” to 1/2” Pipe Thread
- Every valve is factory tested

APPLICATION
- General Plant service
- Instrument isolation
- Hydraulic and pneumatic
- Pressure measurement devices
- Venting

OPERATING PARAMETERS
Pressure Rating : upto 10000 psig (689 bar) at CWP
Temperature Rating : -54°C to 454°C

See SEALEXCEL® Catalogue No. VI-611 for full details.

TOGGLE VALVES : SERIES - TGV01

FEATURES
- Available in SS316 all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Rugged and compact design
- Quick opening and closing
- Straight and angle flow Patterns
- Panel mountable
- Flow coefficient (Cv) from 0.11 to 0.70
- Orifice sizes : 0.080" (2mm), 0.125" (3.2mm), 0.250" (6.4mm)
- Variety of end configurations includes SEALEXCEL® Well-Lok® Tube Fittings, Male / Female NPT, BSPT pipe connections
- Available Fractional Size : 1/8" to 1/2" Tube OD
  Metric Size : 3 mm to 12 mm Tube OD
  1/8" to 3/8" Pipe Thread
- Every valve is factory tested

OPERATING PARAMETERS
Pressure Rating : upto 3000 psig (206 bar) at CWP
Temperature Rating : -28°C to 93°C

See SEALEXCEL® Catalogue No. VI-611 for full details.
CHECK VALVES : SERIES - CV03

FEATURES
- Available in SS316, all wetted parts in accordance with NACE MR01-75
- Heat Code Traceable to certified material test report
- Instant shut off in upstream condition
- The cracking pressure from 1 to 25 psig (0.07 to 1.8 bar)
- Variety of end configuration includes SEALEXCEL® Well-Lok® Tube Fittings, Male / Female NPT, BSPT and BSPP pipe connection
- Available Fractional Size : 1/8" to 1" Tube OD
  Metric Size : 3 mm to 25 mm Tube OD
  1/8" to 1" Pipe Thread
- Every valve is factory tested.

OPERATING PARAMETERS
Pressure Rating  : upto 3000 psig (205 bar) at CWP
Temperature Rating  : upto 198°C with Viton® O-Ring

APPLICATION
- Gas
- Liquid
- Fluid handling

See SEALEXCEL® Catalogue No. VI-611 for full details.

MICRON IN-LINE FILTERS : SERIES - MLF01

FEATURES
- Available in SS316
- Heat Code Traceable to certified material test report
- Remove system particulate contaminants
- Inline Filters are for use where space is limited
- Replaceable filter elements
- Variety of end configuration includes SEALEXCEL® Well-Lok® Tube Fittings, Male / Female NPT, BSPT, BSPP pipe connections
- Available Fractional Size : 1/8" to 1/2" Tube OD
  Metric Size : 3 mm to 12 mm Tube OD
  1/8" to 3/8" Pipe Thread

OPERATING PARAMETERS
Pressure Rating  : upto 3000 psig (204 bar) at CWP
Temperature Rating  : -28°C to 482°C

APPLICATIONS
- Liquid
- Fluid handling

See SEALEXCEL® Catalogue No. VI-611 for full details.
MANIFOLD VALVES : SERIES - MFV

FEATURES
• Available in SS316, NACE certified on request
• Heat Code Traceable to certified material test report
• Low operating torques
• PTFE packing standard, Graphite packing for high temperature on request
• Available with 2 way, 3 way and 5 way valve.
• Available with Pipe to Pipe, Pipe to Flange, Flange to Flange, Remote, Remote mounting Base vent, Base, Direct and Integral mounting.
• Convenient method of blocking, bleeding and calibrating pressure instruments.
• Designed for connection system impulse line & transfer
• Combine the function of a tee, calibration valve, isolation valve, all tubing and fittings in a single valve configuration.
• Standard port sizes up to 1/2” NPT/BSP/BSPT
• Every valve is factory tested

<table>
<thead>
<tr>
<th>Description</th>
<th>Features and Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Bar Handle</td>
<td>To operate and control the valve flow.</td>
</tr>
<tr>
<td>2. Set Screw</td>
<td>Lock the handle with stem.</td>
</tr>
<tr>
<td>3. Stem</td>
<td>i) Rolled and silver plated stem threads for excellent performance and extended service life. ii) Burnished stem at packing area to ensure low torque operation of the valve &amp; reduction in packing wear</td>
</tr>
<tr>
<td>4. Stem Tip</td>
<td>17-4 PH Stainless Steel hardened non rotational self centering stem tip for superior and repeatable positive bubble tight shut off.</td>
</tr>
<tr>
<td>5. Packing Adjuster</td>
<td>Makes external adjustment to set the perfect sealing of gland packing.</td>
</tr>
<tr>
<td>6. Lock Nut</td>
<td>For safety to prevent accidental valve disassembly.</td>
</tr>
<tr>
<td>7. Bonnet</td>
<td>Directly screwed to the main body.</td>
</tr>
<tr>
<td>8. Packing</td>
<td>Packing below the threads protects the flow stream from lubricant contamination on the threads or wash out and also protect the stem threads from potential damaging effects of the media.</td>
</tr>
<tr>
<td>9. Washer</td>
<td>For sealing between body and bonnet assembly.</td>
</tr>
<tr>
<td>10. Locking Pin</td>
<td>To prevent accidental loosening / disassembly of valve.</td>
</tr>
<tr>
<td>11. Dust Cap</td>
<td>Protects the stem from foreign particles.</td>
</tr>
</tbody>
</table>

STANDARD BONNET DESIGN FOR SAFE AND RELIABLE PERFORMANCE

APPLICATIONS
• General Plant Service
• Pressure Instrumentation devices
• Differential pressure Instrumentation devices
• Pressure equalization
• Block and bleed applications
• Venting

TESTING
• Each valve is factory tested with nitrogen at 1000 psig (69 bar) for leakage at the seat and packing.
• Optional Hydrostatic test: This test is performed with de-ionised water at 1.5 time working pressure.

OPERATING PARAMETERS
Pressure Rating: upto 6000 psig (408 bar) at CWP
Temperature Rating: -54°C to 232°C with PTFE packing
upto 426°C with optional graphite packing

www.sealexcel.com
Fittings & Valves
For
Hydraulic Applications

With continuous up-gradation of our technology, process and system play an important role for SEALEXCEL's ability to produce world class consistent quality Fittings and Valves for its customer ensure maximum reliability and operational safety under high pressure.
37° FLARE TUBE FITTINGS

SEALEXCEL® 37° Flare Tube Fittings are compact and simple in designs for assembly and ensure maximum reliability, optimum performance and operational safety where vibration, high pressure and thermal shock exist. It is used in virtually every applications that uses Fluid power for motion control and automation.

FEATURES
- Available in SS316
- Heat Code Traceable to certified material test report
- 37° Flare Fittings performs extremely well even under severe vibration and thermal shocks
- Upon tightening, the sleeve ensures tube alignment with fitting axis, reduces mechanical strain on tube and compensates for vibration.
- Fitting can be equally coupled to metric or inch tubes
- Tube does not undergo distortion, remains constant and fluid pressure losses are negligible
- The system leak free integrity remains after disassembly and reassembly
- Variety of end connections

OPERATING PARAMETERS
- Pressure Rating: upto 5000 psig (Depending on size)
- Temperature Rating: upto 427°C

TUBE FITTINGS TO DIN 2353

SEALEXCEL® Bite-Lok® Tube Fittings are designed according to DIN 2353 and carefully manufactured to provide leak free connection between tube and components in fluid systems which ensure maximum reliability, optimum performance and operational safety

FEATURES
- Available in SS316
- Heat Code Traceable to certified material test report
- L - Series (Light duty for low pressure application)
- S - Series (Heavy duty for high pressure application)

Available size:
- 6mm to 42mm ODT (L-Serieies)
- 6mm to 38mm ODT (S-Serieies)

OPERATING PARAMETERS
- Pressure Rating: upto 630 bar (Depends on series and size of fittings)
- Temperature Rating: upto 426°C

See SEALEXCEL® Catalogue No. 05-010/FTF for full details.

See SEALEXCEL® Catalogue No. 11-10/BL for full details.
**QUICK CONNECT COUPLINGS**

**Series-210**

**APPLICATION**
- Chemicals and Pharmaceuticals
- Machine Tool/Automation
- Off Shore
- Oil Refineries
- Ship Building
- Steel Mills

**FEATURES**
- Available in SS316 with Viton 'O' Ring
- Robust in Construction.
- High Flow Capacity.
- Positive Valve stop.
- Captive valve seal ensures leak free sealing, minimize the seal washout or damage from high velocity Fluid acceleration.
- Seal with PTFE back-up rings designed to ensure reliable and leak free sealing even in high pressure application.
- Ball Locking mechanism Provides safe and reliable connections.
- The industries interchange design and interchangeable with ISO 7241-1 Series 'B' couplings.
- Available Size : 1/8" to 1" Pipe thread

**OPERATING PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Rating</td>
<td>Up to 3500 PSI at CWP</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>Up to 200°C (Depending on sealing material)</td>
</tr>
</tbody>
</table>

See SEALEXCEL® Catalogue No. PNP-1112 for full details.

---

**SWIVEL JOINTS**

**FEATURES**
- Available in Steel and Stainless Steel 316
- Seal Ring are available in Nitrile/EPDM/Viton®/Aflas®
- Hardened bearing races for extended service life.
- Full Flow design minimizes pressure drop for optimum system performance.
- Sealed bearing design isolated bearing race from media and environment.
- Reduced bearing load design minimizes wear in the bearing race and extends services life.
- PTFE back-up rings support primary seal for high-pressure applications.
- Steel with zinc yellow chromate plating for maximum corrosion resistance.
- Variety of seal option available.
- Available Size : 1/4" to 1" Pipe thread

**OPERATING PARAMETERS**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Rating</td>
<td>Up to 5000 PSI at CWP</td>
</tr>
<tr>
<td>Temperature Rating</td>
<td>Up to 180°C (Depending on sealing material)</td>
</tr>
</tbody>
</table>

See SEALEXCEL® Catalogue No. PNP-1112 for full details.
SEALEXCEL's commitment to upgrading and extending its product range by way of continuous research and development programme with advanced technology and cutting edge solutions for its customer.

A TOTAL CUSTOMER SATISFACTIONS
The Automation by Pneumatic is rapidly increasing in the process of Industrial growth and transformation. Considering the growing demand for Stainless Steel Pneumatic products in aggressive environments and corrosive fluids. SEALEXCEL has designed, developed and manufactured Stainless Steel Fittings and Valves to meet the requirement of Pneumatic Applications.

These products are most suitable in aggressive and corrosive environments which are generally used in chemicals, Food, Packaging, Printing Industries etc.
SEALEXCEL® Stainless Steel Push-in-Fittings consist of six precision components such as Body, Releasing Sleeve, Washer, Gripping Collet, Guide Rings and ‘O’ Rings. These components have been carefully designed and manufactured to meet the high quality requirements in Pneumatic Applications. These Fittings are Resistance to Aggressive Environments and Fluids, which are generally used in Chemicals, Food & Packaging Industries etc.

**FEATURES**
- Available in SS316L with Viton ‘O’ Ring
- Compact and attractive design
- Reliable leak tight sealing system
- Easy for Manual connection and dis-connection
- No tools required for connection and dis-connection
- Full Flow without pressure drop
- Automatic tube sealing with ‘O’Ring and locking with gripping collect
- Available with NPT, BSPT, BSPP and SAE Straight thread pipe connections
- Available Metric Size : 4mm to 16mm Tube OD
  Fractional Size :3/16” to 5/8” Tube OD

**COMPATIBLE WITH**
- Semi rigid Nylon Tube
- Flexible Polyurethane Tube
- Low density Polyurethane
- Fluoropolymer FEP - 140 Tube
- Stainless Steel and copper Tube (with groove)

**OPERATING PARAMETERS**
- Pressure Rating : upto 225 PSI at CWP
- Temperature Rating : upto 150°C

**MATERIAL OF CONSTRUCTION**
- Body, Guide Ring : SS 316L
- Lock Ring, Releasing Sleeve : SS 316L
- Gripping Collet : SS 303
- ‘O’ Ring : Viton®

Note : ‘O’ Ring in EPDM are available on request.

**APPLICATION**
- Pneumatic Control
- Air Supply to pneumatic machine
- Automatic devices
- Laboratories (Medical, Pharmaceutical etc.)
- Instrumentations

See SEALEXCEL® Catalogue No. PNP-1112 for full details.
OPERATING PARAMETERS
Pressure Rating   : upto 300 PSI at CWP
Temperature Rating  : upto 150°C

FEATURES
• Available in SS316L with Twin Viton ‘O’ Rings
• Compact and attractive design
• High degree of sealing efficiency
• Easy for Manual connection and dis-connection
• No tools required for connection and dis-connection
• Full Flow without pressure drop
• Automatic tube sealing with twin ‘O’Rings and locking with gripping collect
• Available with NPT, BSPT, BSPP and SAE Straight thread pipe connections
• Available Metric Size : 6mm to 16mm Tube OD
  Fractional Size : 1/4” to 5/8” Tube OD

STAINLESS STEEL PUSH-IN-FITTINGS
SERIES - PIFT (Twin ‘O’ Rings Design)

SEALEXCEL® Stainless Steel Push-in-Fittings Series PIFT is designed very carefully and incorporate two ‘O’ Rings to provide high degree of sealing efficiency, safety and ensure high performance products

OPERATING PARAMETERS
Pressure Rating   : upto 300 PSI at CWP
Temperature Rating  : upto 150°C

MATERIAL OF CONSTRUCTION
Body, Guide Ring  : SS 316L
Lock Ring, Releasing Sleeve : SS 316L
Gripping Collet  : SS 303
‘O’ Ring          : Viton®
Note : ‘O’ Ring in EPDM are available on request.

COMPATIBLE WITH
• Semi rigid Nylon Tube
• Flexible Polyurethane Tube
• Low density Polyurethane
• Fluoropolymer FEP - 140 Tube
• Stainless Steel and copper Tube (with groove)

APPLICATION
• Pneumatic Control
• Air Supply to pneumatic machine
• Automatic devices
• Laboratories (Medical, Pharmaceutical etc.)
• Instrumentations

The design of Stainless Steel Push-in-Fittings Series PIFT is having two sealing ‘O’ Rings instead of one to provide high degree of sealing efficiency which ensure maximum reliability, high performance and safety

See SEALEXCEL® Catalogue No. PNP-1112 for full details.
STAINLESS STEEL PUSH-ON-FITTINGS

OPERATING PARAMETERS
Pressure Rating   : upto 225 PSI at CWP
Temperature Rating  : upto 180°C

FEATURES
• Available in SS316L
• Reliable leak tight sealing system
• Full Flow without pressure drop
• Tube sealing and locking by tightening the nut
• Available with NPT, BSPT, BSPP and SAE Straight thread pipe connections
• Available Metric Size : 6mm to 12mm Tube OD
  Fractional Size : 1/4" to 1/2" Tube OD

COMPATIBLE WITH
• Polyethylene (PE)
• PTFE
• Fluoropolymer
• Polyurethane (PV)

APPLICATION
• Pneumatic Control
• Air Supply to pneumatic machine
• Automatic devices
• Laboratories (Medical, Pharmaceutical etc.)
• Instrumentations

CHECK VALVES SERIES-CV01
SEALEXCEL® Stainless Steel Check Valves Series-CV01 Valves are of Compact And Precise in Design to Provide Single Direction Flow for low pressure application
SEALEXCEL® Stainless Steel Check Valves shut the fluid passage when the Pressure difference is below 0.25 Bar.
• Available in SS316L with Viton® 'O' Ring

OPERATING PARAMETERS
Available Size  : 1/8" to 1/2" Pipe Thread
Pressure Rating : 0.5 to 40 Bar at CWP
Temperature Rating : Up to 180°C
End Connections  : BSP/BSPT/NPT Pipe Thread

See SEALEXCEL® Catalogue No. PNP-1112 for full details.
FLOW CONTROL REGULATORS

These Regulators are used to control the speed of a Pneumatic Cylinder or the speed of Food Fluid carried in aggressive environments or to high mechanical or chemical constraints.

- Available in SS316L with Viton® ‘O’ Ring.

**MODEL: FRP03 (One way adjustment) & FRP05 (Bi-Directional)**

**OPERATING PARAMETERS**

Available Size: 1/8” to 1/2” Pipe Thread  
Pressure Rating: Up to 10 Bar at CWP  
Temperature Rating: Up to 120°C  
End Connections: BSP/BSPT/NPT/SAE Straight Thread

**MODEL: FRP07 (One way adjustment)**

**OPERATING PARAMETERS**

Available Size: 1/8” to 1/2” Pipe Thread  
Pressure Rating: Up to 16 Bar at CWP  
Temperature Rating: Up to 120°C  
End Connections: BSP/BSPT/NPT/SAE Straight Thread

**MODEL: FRP09 (Bi-Directional)**

**OPERATING PARAMETERS**

Available Size: 1/8” to 1/2” Pipe Thread  
Pressure Rating: Up to 40 Bar at CWP  
Temperature Rating: Up to 120°C  
End Connections: BSP/BSPT/NPT/SAE Straight Thread

QUICK EXHAUST VALVES

These valves allow direct exhaust of compressed Air due to increase of cylinder rod displacement speed, this result in reduction of cycle time.

- Available in SS316L with Viton® ‘O’ Ring

**OPERATING PARAMETERS**

Available Size: 1/8” to 1/2” Pipe Thread  
Pressure Rating: Up to 10 Bar at CWP  
Temperature Rating: Up to 120°C  
End Connections: BSP/BSPT/NPT/SAE Straight Thread

**SEALING MATERIALS**

Pipe Thread Size Up to 1/4” : Viton®  
Pipe Thread Size Above 1/4” : Polyurethane

See SEALEXCEL® Catalogue No. PNP-1112 for full details.
QUICK CONNECT COUPLINGS

Series-310

SEALEXCEL® Series 310 Stainless Steel Single Valve Quick Connect Couplings are designed and manufactured for low pressure applications. This Coupling are Resistant to Aggressive Environments and Corrosive Fluids etc. and are generally used in many applications across a wide sector of Industries

FEATURES
- Available in SS316L with Viton® ‘O’ Ring
- Robust in construction.
- Easy for manual connection and disconnection.
- No tools required for connection and disconnection.
- Reliable leak tight Sealing System.
- Durable ball-locking mechanism assures reliable connection.
- Valve guide positively aligns valve with seat to prevent leakage.
- SEALEXCEL® Industrial interchange Plugs are interchangeable with similar Plugs manufactured by other quick coupling manufacturers confirming to ISO 6150 Series B and USMIL-C4109 or ANSI(NFPA) T3.20.14-1990 (R2004).

OPERATING PARAMETERS
- Available Size : 1/8” to 1/2” Pipe thread
- Pressure Rating : Up to 290 PSI at CWP
- Temperature Rating : Up to 120°C
- Available Flow Passage : Metric Size : 5mm, 7.9mm, 10mm, 14mm
  : Fractional Size : 3/16”, 9/32”, 3/8” & 9/16”

APPLICATION
- Pneumatics Control.
- Air Supply to pneumatic machines.
- Automatic devices.
- Laboratories (Medical, Pharmaceutical etc.)
- Instrumentation

See SEALEXCEL® Catalogue No. 06-02/QC for full details.

A-Lok® is a registered trademark of parker Hannifin Corp.
Swagelok® is a registered trademark of Swagelok Co.
Viton® is a registered trademark of Dupont.
SEALEXCEL® (INDIA) PVT. LTD.

Regd. Office & Unit-I : 56 & 61, Veena Dalvai Industrial Estate,
S. V. Road, Oshiwa, Jogeshwari (west), Mumbai - 400 102. India.
Phone : +91-22-26786885, 26788534, 66944124
Fax : +91-22-26781426, 66944126
E-mail : sales@sealexcel.com, Website : http://www.sealexcel.com

Unit II : Plot No. 300/1 & 2, At Post - Mahi, Pirojpur - Mahi Road,
Via Chhapi, Taluka-vaudgam, Dist-Banaskantha,
North-Gujarat, Pin-385210. India

Catalogue No. PD-0613