McGill Hose & Coupling prides itself on supplying quality product solutions and services for your company. With over 100 years of combined experience in custom hose fabrication, large inventory of various hoses, high-volume production & partnerships with the best hose & coupling manufacturers, you’ll feel confident putting your trust in us.
DK-Lok Tube Fittings

Standard Features

- 1/16 - 2 in. OD.
- 2mm - 50mm OD.
- Heat Code Traceability.
- Reusable.
- Gaugeable Feature.
- Rolled Male Thread Construction.
- Leak-free performance across all applications in heavy vibration, high thermal stress, extreme impulse, and vacuum application.

DK-Lok Corrosion-Resistant Ferrules provide;

- No formation of carbides for excellent corrosion resistance.
- Retention of Stainless steel non-magnetic characteristics.
- Service in chloride, sulfide and acid fluid proven to be superior to conventional selectively hardened ferrules.
- Excellent gripping and sealing integrity across tubing wall thickness and outside diameter combinations of stainless steel tubing.

DK-Lok Tube Fittings
- Stainless Steel
- Brass, Carbon Steel
- PTFE

DK-Lok Tube Fittings
- Flanges
- Dielectric Fittings
- Single Ferrule Fittings
- Stainless Steel, Super Duplex, and 904L

DK-Lok Tools
- Gap Gauge
- Tube Depth Marking Tool
- Pre-Swaging Hand Tool
- Hydraulic Swaging Unit
DK-Lok Quick Fittings

DQ Series Quick Connectors
- Bi-directional flow design
- Up to 3,000 psig
- Stainless Steel and Brass
- DK-Lok 1/8 to 1/2 in. OD
- Male/Female 1/8 to 1/2 in. NPT

DQ Series Keyed Connectors
- Key prevents intermixing mechanically & visually
- Applicable to multi-fluids and multi-pressure systems

DQM Series
- Miniature Quick Connectors
- Bi-directional flow design
- Up to 4,000 psig
- Stainless Steel and Brass
- DK-Lok 1/16 to 1/8 in. OD
- Male/Female 1/16 to 1/8 in. NPT

DF Series
- Full Flow Quick Connectors
- Bi-directional flow design
- Up to 6,000 psig
- Stainless Steel and Brass
- DK-Lok 1/4 to 1 in. OD
- Male/Female 1/4 to 1 in. NPT

DK-Lok Check and Relief Valves

V33 Series
Poppet Check Valves
- Working Pressure: 3,000 psig
- Cracking Pressure: 1/3 to 100 psig
- Stainless Steel and Brass
- DK-Lok 1/8 to 1 in. OD
- Pipe thread 1/8 to 1 in.

VP33 Series
One Piece Check Valves
- Working Pressure: 3,000 psig
- Cracking Pressure: 1/3 to 25 psig
- Stainless Steel and Brass
- Pipe thread 1/4 to 1/2 in.

VH36 Series
High Pressure Check Valves
- Working Pressure: 6,000 psig
- Cracking Pressure: 1/3 to 25 psig
- Stainless Steel
- DK-Lok 1/8 to 1 in. OD
- Pipe thread 1/8 to 1 in.

VA33 Series
One Piece Adjustable Check Valves
- Working Pressure: 3,000 psig
- Cracking Pressure: 3 to 600 psig
- Stainless Steel
- Pipe thread 1/4 to 1/2 in.

VDA33 Series
In-Line Adjustable Check Valves
- Working Pressure: 3,000 psig
- Cracking pressure: 3 to 600 psig
- Stainless Steel
- DK-Lok 1/4 in. 6mm, and 8mm OD

VL36 Series
Lift Check Valves
- Working Pressure: 6,000 psig
- Reverse flow closes the valve
- Up to 900 °F (482 °C)
- DK-Lok 1/4 to 3/4 in OD
- Pipe thread 1/8 to 1/2 in.

V63/V66 Series
Relief Valves
- Working Pressure: 6,000 psig
- Cracking pressure: 50 to 6,000 psig
- -18 to 400 °F (-28 to 204 °C)
- Stainless Steel with FKM seals
- DK-Lok 1/4 to 1/2 in. OD
- Pipe thread 1/4 to 1/2 in.

V66T Series
Relief Valves
- Working Pressure: 6,000 psig
- Cracking Pressure: 540 to 640 psig
- -20 to 250 °F (-29 to 121 °C)
- Stainless Steel with FKM Seat
- Male to Female 1/4 in. NPT
### DK-Lok Filters and Excess Flow Valves

<table>
<thead>
<tr>
<th>V73/V76 Series Filters</th>
<th>VX36 Series Excess Flow Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Pressure</td>
<td>Working Pressure: 6,000 psig</td>
</tr>
<tr>
<td>- 6,000 psig for V76 Series</td>
<td>- Up to 204 °C (400 °F)</td>
</tr>
<tr>
<td>- 3,000 psig for V73 Series</td>
<td>- Designed to stop uncontrolled release of system media.</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>DK-Lok 1/8 to 1/2 in. OD</td>
</tr>
<tr>
<td>DK-Lok 1/8 to 1/2 in. OD</td>
<td>Pipe thread 1/8 to 1/2 in.</td>
</tr>
</tbody>
</table>

### DK-Lok Valve for Offshore Platform

<table>
<thead>
<tr>
<th>Double Block and Bleed Valves</th>
<th>Monoflanges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 150 through 2,500 to ASME B16.5</td>
<td>Class 150 through 2,500 to ASME B16.5</td>
</tr>
<tr>
<td>Up to 204 °C (400 °F)</td>
<td>Up to 204 °C (400 °F)</td>
</tr>
<tr>
<td>SS316</td>
<td>PTFE packing</td>
</tr>
<tr>
<td>Flange size 1/2 to 2 in. (DN15 – DN50)</td>
<td>Up to 454 °C (850 °F)</td>
</tr>
<tr>
<td>Blowout proof valve stem and needle</td>
<td>graphite packing</td>
</tr>
<tr>
<td>Fire-tested to BS 6755 part</td>
<td>Flange size 1/2 to 2 in. (DN15 – DN50)</td>
</tr>
</tbody>
</table>

### DK-Lok Bleed, Purge, Gauge Root and Block & Bleed Valves

<table>
<thead>
<tr>
<th>VBV Series Bleed Valves</th>
<th>VPV Series Purge Valves</th>
<th>V46 Series Gauge Root Valves</th>
<th>V46V2 Series Block and Bleed Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Pressure: 10,000 psig</td>
<td>Working Pressure: 4,000 psig</td>
<td>Working Pressure: 6,000 psig for pressure gauge with vent port.</td>
<td>Working Pressure: 6,000 psig</td>
</tr>
<tr>
<td>Vent the signal line pressure to atmosphere to assist in calibration of control valves or multi-valve manifolds</td>
<td>For bleeding, venting, and draining of system fluids.</td>
<td>Stainless Steel and Carbon Steel</td>
<td>Bleeding, venting, and draining of system fluids.</td>
</tr>
<tr>
<td>Stainless Steel and Carbon Steel</td>
<td>Stainless Steel and Brass</td>
<td>DK-Lok 1/8 to 1/2 in.</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Male pipe thread 1/8 to 1/2 in.</td>
<td>DK-Lok 1/8 to 1/2 in.</td>
<td>Pipe thread 1/8 to 1/2 in.</td>
<td>Male to female 1/2 in. NPT</td>
</tr>
</tbody>
</table>

### DK-Lok CNG / NGV Valves

<table>
<thead>
<tr>
<th>VC86 Series CNG/NGV Ball Valves</th>
<th>V64 Series High Flow Relief Valves</th>
<th>VCH86 Series Alternative Fuel Service Ball Valves</th>
<th>VCT86 Series Trunnion Ball Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Pressure: 274 bar@120°C</td>
<td>Working Pressure: 6,000 psig</td>
<td>2-way on-off valves</td>
<td>2-way on-off valves</td>
</tr>
<tr>
<td>Dynamic seat design</td>
<td>Cracking pressure: 15 to 5,000 psig</td>
<td>Working Pressure: 274 bar@120°C</td>
<td>3-way switching valves</td>
</tr>
<tr>
<td>Dynamic seat design</td>
<td>Orifice: 0.404 in. (10.26 mm)</td>
<td>Dynamic seat design</td>
<td>Working Pressure: 274 bar@120°C</td>
</tr>
<tr>
<td>Air Gases, CNG, and Liquid</td>
<td>DK-Lok 3/8 to 1 in. OD</td>
<td>DK-Lok 3/8 to 1 in. OD</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Pipe thread: 1/2 to 1 in.</td>
<td>Pipe thread: 3/8 to 3/4 in.</td>
<td>Pipe thread: 1/2 to 1/2 in OD</td>
<td>DK-Lok 1/4 to 1/2 in OD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pipe thread 1/8 to 1/4 in.</td>
<td></td>
</tr>
</tbody>
</table>
DK-Lok Bellows, Needle and Toggle Valves and Manifolds

V13 Series
Bellows Valves
- Working Pressure: 2,500 psig
- Vacuum and high pressure application
- Stainless Steel
- DK-Lok 1/4 to 1/2 in. OD
- Pipe thread 1/4 to 1/2 in.

V15 Series Integral
Bonnet Needle Valves
- Working Pressure: 5,000 psig
- Regulating/Vee/Soft Seat
- Stainless Steel, Brass, and Exotic Alloys
- DK-Lok 1/8 to 3/4 in. OD
- Pipe thread 1/8 to 1/2 in.

V16 Series Severe
Service Union Bonnet Valves
- Working Pressure: 6,000 psig
- Non-rotating globe stem tip
- Stainless Steel and Exotic Alloys
- DK-Lok 1/4 to 1 in. OD
- Pipe thread 1/16 to 3/4 in.
- Pipe socket weld 1/4 to 1/2 in.

VB16 Series Integral
Bonnet Needle Valves
- Working Pressure: 6,000 psig
- Compact design
- Vee Tip / Soft Seat
- Stainless Steel
- DK-Lok 1/4 to 1/2 in. OD
- Pipe thread 1/8 to 1 in.

VM Series
Metering Valves
- Working Pressure: 2,000 psig for VM1D Series
- 1,000 psig for VM3D/VM6D Series
- Stainless Steel and Brass
- DK-Lok 1/16 to 3/8 in. OD
- Pipe thread 1/8 to 1/4 in.
- Panel mount with no handle removal.

V96 Series
Rising Stem Plug Valves
- Working Pressure: 6,000 psig
- Acetal replaceable soft seat
- Straight-through roddable orifice
- Stainless Steel
- Pipe thread 1/4 to 3/4 in.

V46A Series
Hex. Body Needle Valves
- Working Pressure: 10,000 psig
- Packing adjustment externally
- Stainless Steel and Carbon Steel
- DK-Lok 1/4 to 1/2 in. OD
- Pipe thread 1/4 to 3/4 in.

VEX110 Series
Needle Valves
- Working Pressure: 10,000 psig
- Unique sealing cup design on packing
- Stainless Steel
- Pipe thread 1/4 to 1/2 in.

V103 Series
Toggle Valves
- Working Pressure: 300 psig
- Instant open and close the valve for sampling and testing equipment
- Stainless Steel and Brass
- DK-Lok 1/8 to 1/2 in. OD
- Pipe thread 1/8 to 3/8 in.

VD3 Series
Diaphragm Valves
- Working Pressure: 3,500 psig
- Instant open and close the valve with no o-ring, no packing or no bellows in the flow stream
- Stainless Steel and Brass
- DK-Lok 1/4 to 1/2 in. OD
- Pipe thread 1/4 to 3/8 in.

V56 Series
Instrument Manifolds
- Working Pressure: 6,000 psig
- Vertical Direct / Remote mount
- Stainless Steel and Carbon Steel
- 2, 3, and 5 valve as standard

V56 Series
Instrument Manifolds
- Working Pressure: 6,000 psig
- Single / Double Flange Direct mount
- Stainless Steel
- 2, 3, and 5 valve as standard
### DK-Lok Ball and Plug Valves

#### V23 Series Plug Valves
- Working Pressure: 3,000 psig
- Stainless Steel and Brass
- Forward flow throttling
- DK-Lok 1/8 to 1/2 in. OD
- Pipe thread 1/8 to 1/2 in.

#### V81 Series General Purpose Ball Valves
- Working Pressure: 2,000 psig
- Stainless Steel and Brass
- Pipe thread 1/4 to 1 in.

#### V82 Series Lowest Dead Volume Ball Valves
- Working Pressure: 3,000 psig
- Stainless Steel and Brass
- 2-way and 3-way actuation
- DK-Lok 1/8 to 1/2 in.
- Pipe thread 1/8 to 1/2 in.

#### V824 Series Lowest Dead Volume Ball Valves
- Crossover 4-way Ball valves
- Working Pressure: 2,500 psig
- Stainless Steel
- Pipe thread 1/8 - 1/2 inch

#### V825 Series Lowest Dead Volume Ball Valves
- Switching 5-way Ball Valves
- Working Pressure: 2,500 psig
- Stainless Steel
- Pipe thread 1/8 - 1/2 in.

#### V83 Series Swing-Out Ball Valves
- Working Pressure: 3,000 psig
- Stainless Steel and Carbon Steel
- DK-Lok 1/4 to 1 in. OD
- Pipe thread 1/8 to 1 in.

#### V86 Series High Pressure Ball Valves
- 2-way on-off valves
- 3-way diverter valves
- Working Pressure: 10,000 psig
- Stainless Steel and Carbon Steel
- DK-Lok 1/4 to 1 in. OD
- Pipe thread 1/4 to 1 in.

#### VT86 / VTH86 Series Trunnion Ball Valves
- 2-way on-off valves
- 3-way switching valves
- Working Pressure: 6,000 psig for VT86 Series
- Stainless Steel
- DK-Lok 1/4 to 1/2 in. OD
- Pipe thread 1/8 to 1/4 in.

#### VH86 Series Multi-Purpose Ball Valves
- 2-way bi-directional valves
- 3-way diverter valves
- Working Pressure: 6,000 psig
- Stainless Steel
- Pipe thread 1/4 to 1/2 in.

#### VH86 Valve with Actuator
- Pneumatic Actuator
- 90/180 degree actuation
- Single and Double return

#### V87 Series DIN Standard Ball Valves
- Up to 7,250 psig (500bar)
- Up to 100°C (212°F)
- DIN 1.4404, SS316L
- DIN OD 6mm – 36mm
- Pipe thread 1/8 – 1in.
- Ball valve to DIN standard.

---

### Certifications for DK-LOK

![Image of various certification logos and certificates]
# Testing Specifications

## Tube Outside Diameter by Wall Thickness Combinations

<table>
<thead>
<tr>
<th>Tube Size (inch)</th>
<th>Tube Rate Pressure (psig / bar)</th>
<th>Tube Hardness (HRB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 x 0.049</td>
<td>7,500 / 517</td>
<td>75 - 78</td>
</tr>
<tr>
<td>3/8 x 0.049</td>
<td>4,800 / 331</td>
<td>75 - 78</td>
</tr>
<tr>
<td>1/2 x 0.065</td>
<td>4,700 / 324</td>
<td>70 - 77</td>
</tr>
<tr>
<td>3/4 x 0.095</td>
<td>4,900 / 338</td>
<td>75 - 80</td>
</tr>
<tr>
<td>1 x 0.109</td>
<td>4,200 / 290</td>
<td>75 - 79</td>
</tr>
</tbody>
</table>

## Intermix Matrix for Swagelok® & DK-LOK®

<table>
<thead>
<tr>
<th></th>
<th>#1</th>
<th>#2</th>
<th>#3</th>
<th>#4</th>
<th>#5</th>
<th>#6</th>
<th>#7</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DK Nut - DKN</strong></td>
<td>SN</td>
<td>DKN</td>
<td>DKN</td>
<td>DKN</td>
<td>SN</td>
<td>DKN</td>
<td>DKN</td>
</tr>
<tr>
<td><strong>DK Back Ferrule - DKB</strong></td>
<td>DKB</td>
<td>SBF</td>
<td>DKB</td>
<td>DKB</td>
<td>SBF</td>
<td>SBF</td>
<td>DKB</td>
</tr>
<tr>
<td><strong>DK Front Ferrule - DKFF</strong></td>
<td>DKFF</td>
<td>DKFF</td>
<td>SFF</td>
<td>DKFF</td>
<td>DKFF</td>
<td>SFF</td>
<td>SFF</td>
</tr>
<tr>
<td><strong>DK-Body - DKB</strong></td>
<td>DKB</td>
<td>DKB</td>
<td>SB</td>
<td>DKB</td>
<td>DKB</td>
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<tr>
<td><strong>Swagelok Nut - SN</strong></td>
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<td>SN</td>
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<td>SN</td>
<td>SN</td>
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<tr>
<td><strong>Swagelok Back Ferrule - SBF</strong></td>
<td>DKB</td>
<td>SBF</td>
<td>DKB</td>
<td>SBF</td>
<td>SBF</td>
<td>SBF</td>
<td>DKB</td>
</tr>
<tr>
<td><strong>Swagelok Front Ferrule - SFF</strong></td>
<td>SFF</td>
<td>DKFF</td>
<td>SFF</td>
<td>SFF</td>
<td>DKFF</td>
<td>SFF</td>
<td>SFF</td>
</tr>
<tr>
<td><strong>Swagelok-Body - SB</strong></td>
<td>SB</td>
<td>SB</td>
<td>SB</td>
<td>SB</td>
<td>SB</td>
<td>SB</td>
<td>SB</td>
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</tbody>
</table>

## Tests Based on ASTM F1387 – Mandatory Tests

<table>
<thead>
<tr>
<th>ASTM 1387 Section No.</th>
<th>Procedure</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>Examination of Specimen</td>
<td>Done</td>
</tr>
<tr>
<td>A3</td>
<td>Pneumatic Proof Test</td>
<td>Done</td>
</tr>
<tr>
<td>A4</td>
<td>Hydrostatic Proof Test</td>
<td>Done</td>
</tr>
<tr>
<td>A5</td>
<td>Impulse Test</td>
<td>Done</td>
</tr>
<tr>
<td>A6</td>
<td>Flexure Fatigue Test</td>
<td>Done</td>
</tr>
<tr>
<td>A7</td>
<td>Tensile Test</td>
<td>Done</td>
</tr>
<tr>
<td>A8</td>
<td>Hydrostatic Burst Test</td>
<td>Done</td>
</tr>
<tr>
<td>A9</td>
<td>Repeated Assembly Test</td>
<td>Done</td>
</tr>
<tr>
<td>A10</td>
<td>Rotary Flex Test</td>
<td>Done</td>
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<tr>
<td>A11</td>
<td>Mercurocyan Nitrate Test</td>
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</tbody>
</table>

## Tests Based on ASTM F1387 – Supplemental Tests

<table>
<thead>
<tr>
<th>ASTM 1387 Section No.</th>
<th>Procedure</th>
<th>Comments</th>
</tr>
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<tbody>
<tr>
<td>S2</td>
<td>Thermal Cycling Test</td>
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</tr>
<tr>
<td>S3</td>
<td>Elevated Temperature Soak Test</td>
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</tr>
<tr>
<td>S4</td>
<td>Stress-Corrosion Test</td>
<td>-</td>
</tr>
<tr>
<td>S5</td>
<td>Torsion Test</td>
<td>-</td>
</tr>
<tr>
<td>S6</td>
<td>Shock Test</td>
<td>-</td>
</tr>
<tr>
<td>S7</td>
<td>Fire Test</td>
<td>-</td>
</tr>
<tr>
<td>S8</td>
<td>Vibration Test</td>
<td>Done</td>
</tr>
</tbody>
</table>

ASTM (American Society of Testing and Materials) F1387 establishes the performance characteristics required for mechanically attached fittings (MAF) for use in piping and tubing systems. All tests witnessed by TUV Rheinland. No failure observed.
At McGill Hose & Coupling we are pleased that we can offer custom tube and pipe bending to compliment our DK-Lok lineup and offer another dimension of fluid handling solutions. We stock and can source and work with carbon steel, stainless steel, aluminum, copper, as well some of the more exotic specialty metals like Inconel and Hastelloy.