# **Ultra High Purity Products**

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## Products Condensed Catalog

No. CC-1 September 2017





### **DK-Lok Ultra High Purity Products**

#### **Weld Fittings**



- High Purity Gas Line
- Auto Welding Design and 1/8"~1" Size
- DK-Lok's Own Electro Polished and Cleaning Process (18MΩ D.I Water)
- SS316L, SS316L VAR Material BA/EP Grade

### **Bend Fittings**



- Pipe Size 8A~300A, Tube Size 1/4"~6"
- DK-Lok's Own Electro Polished and Cleaning Process
- (18MQ D.I Water)
- SS304, SS316, SS316L Material
- AP/MP/BA/EP Grade

#### **DCR Fittings**



• High Purity Gas Line

\* DCR : DK-Metal Face Seal

- DCR Design and 1/8"~1" Size
- DK-Lok's Own Electro Polished and Cleaning Process
- (18MQ D.I Water)
- SS316L, SS316L VAR Material BA/EP Grade

#### **Diaphragm Valves**



- Working Pressure 145psig(10bar)
- SS316/316L, SS316L, SS316L VAR Material
- DCR, DK-Lok, TBW 1/4"~3/4" Size Elgiloy Diaphragm Material
- Manual, Pneumatic, Block, Shut off Model
- Minamall Particle Generation
   Moisture Contribution

Regulator

#### **Bellows Valves**



- Working Pressure 145psig(10bar)
- SS316/316L, SS316L Material
- DCR, DK-Lok, TBW 1/4"~1", 15A~50A
- Manual, Pneumatic Operation
- Minamall Particle Generation
- Moisture Contribution

Working Pressure 145psig(10bar)

**Casting Bellows Valves** 

- SS304, SS316, SS316L Material
- Butt Weld, Flange Type
- •65A, 80A, 100A, 125A, 150A~500A



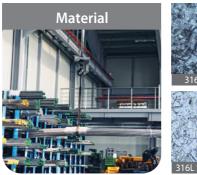
- Max. Inlet Working Pressure 600psig, 3500psig
- Outlet Working Pressure 30psig, 60psig,
- 100psig, 150psig, 250psig
- SS316L, SS316L VAR Material
- DCR, TBW Type 1/4"~1/2" Size
- BA, EP Grade

#### **IDK-LOK** Corporation



### **Manufacturing Process**

#### Process 1





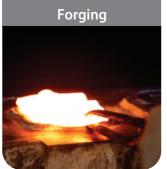
**Process 3** 

#### **DK-Lok Specification**

**Process 4** 

	Chemical Compositions	316L Stainless		316L Stainless VAR		Remark
T		Spec	Act	Spec	Act	Neillaik
	S	0.005	0.001	0.003	0.001	Weldability
ř.	Mn	1.000	0.423	0.500	0.020	weldability

Process 2



 Material before Machining Capabilly : 1,000 ton



- CNC and MCT Operation
  Six Axis Machine
  Five-Axis Machines with
- E.P & Passivation

• DK-Lok's Own EP System Inner Surface 0.7 µm (Ry) • After E.P, Surface Passivated

#### Process 5



- Ultrasonic Hot D.I Water
- Electric-Resistivity 18MΩ-Cm
- Final D.I Water Cleaning & N2 Purge, Vaccum Dring in a Class 1,000

#### Process 6



Process 7

Robotic Arm



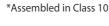
#### Inspection

Surface Roughness Measurement Particle Counting Test (ASTM F1374) Helium Leak Test (SEMA 90120391B-STD) Function, Cv Testing Surface Composition & Chemical Components (SEMA 91060573B, SEMA 90120430B-STD) Moisture Analysis (SEMA 90120391B-STD) Redual Oil Content (≤ 0.01mg/ft2)

### Process 8



\*Double Packing in Class 100



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**DK-Lok** strives to ensure customer satisfaction by providing products of the highest quality. We expanded the customer base

with the world leading companies in Railway Vehicles, Offshore & Onshore, shipbuilding & Marine Engine, CNG & NGV, Chemical, Petrochemical & Refinery, Semiconductor and Power Plant industries on 46 countries across the globe. DK-Lok continues to strengthen our basis for growth through aggressive production facility investment, ceaseless employee training and R&D for the development of new technologies. For superior product and process quality, we acquired the certifications of ASME N, NPT, NS stamps. Moreover, we have received product certifications from global certification agencies, such as LR, GL, ABS, DNV, RWTUV, NK and KR. Hence, we are able to ensure the provision of high quality products and service that meet the product quality needs of global high tech industry customers.



#### **Global Distribution Network**



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