



ULTRA HIGH PURITY PRODUCTS

Hy-Lok
EUROPE

HY-LOK.EU

Hy-Lok Europe is the European headquarters and master warehouse for Hy-Lok Corporation - South Korea.

ULTRA HIGH PURITY PRODUCTS

Hy-Lok is a well-known manufacturer and supplier of UHP products and known for more than 40 years of experience in fast track delivery, special materials and design.

Hy-loc's UHP Products are produced from special materials such as Single Vacuum Melt 316L Stainless Steel and Double Vacuum Melt 316L Stainless Steel - suitable for extraordinary applications.

We look forward to be your perfect business partner in Ultra High Purity applications.

Our highly qualified staff works with high speed machines to produce your fittings and valves according to your specifications.

A primary focus of Hy-Lok is continuously investing in state-of-the-art machinery, according to the latest technology.

FOR A BETTER TOMORROW

To see the most recent information on our distributors, please visit our website

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UHP PRODUCTS



Hy-Lok Tube Fittings

APPLICATIONS

- Gas supply system
- Gas scrubber, vacuum pump system

FEATURES

- Compression double ferrule
- Easy installation and re-assembly
- Vibration resistance and complete interchangeability
- ASTM F1387 Tested

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
6.000 psig (414 bar)	-196 °C	537 °C	✓			Compression NPT, BSPT & BSPP	2"

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
8.500 psig (586 bar)	-28 °C	537 °C		✓	✓	ZCR Metal Gasket Seal	1"/25 mm

HY-LOK SOLUTIONS FOR ULTRA HIGH PURITY APPLICATIONS



Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
3.000 psig (207 bar)	-23 °C	204 °C		✓	✓	ZCR (M), ZCR (F), Butt Weld, Compression Two Ferrule	½"

Tube Butt Weld Fittings



APPLICATIONS

- High Purity Gas Line
- Vacuum System

FEATURES

- Auto Welding Design
 - Single Vacuum Melt 316L Stainless Steel (SM6L)
 - Double Vacuum Melt 316L Stainless Steel (VV6L) (equivalent with SEMI F20)
- Cleaning: 18 MΩ·cm hot DI Water
- Cleanness: Class 10
- Helium Leak Rate: 1x10⁻⁹ atm.cc/s

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
5.100 psig (351 bar)	-28 °C	537 °C		✓	✓	Butt Weld	1"/25 mm

Metal Gasket Face Seal Fittings



APPLICATIONS

- High Purity Gas Line
- Vacuum System

FEATURES

- Auto Welding Design
 - Single Vacuum Melt 316L Stainless Steel (SM6L)
 - Double Vacuum Melt 316L Stainless Steel (VV6L) (equivalent with SEMI F20)
- Cleaning: 18 MΩ·cm hot DI Water
- Cleanness: Class 10
- Helium Leak Rate: 1x10⁻⁹ atm.cc/s

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
8.500 psig (586 bar)	-28 °C	537 °C		✓	✓	ZCR Metal Gasket Seal	1"/25 mm

HY-LOK SOLUTIONS FOR ULTRA HIGH PURITY APPLICATIONS



HPGR - 400 & 800 series

Regulators

APPLICATIONS

- Semiconductor
- Research labs

FEATURES

- Single Vacuum Melt 316L Stainless Steel (SM6L)
- Double Vacuum Melt 316L Stainless Steel (VV6L) (equivalent with SEMI F20)
- Point-of-Use
- Free Poppet
- 5 Or 10 μm Ra internal surface
- Metal to Metal Body to Diaphragm Seal
- Low Particle Entrapment

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
3.500 psig (241 bar)	-26 °C	80 °C		✓	✓	ZCR (M), ZCR (F), Butt Weld, Compression Two Ferrule	1/2"



CVW Series

All Welded Check Valves

APPLICATIONS

- Semiconductor
- Biotech
- Pharmaceutical
- Ultra Pure, flammable or toxic fluid Line

FEATURES

- All Welded Design
- Single Vacuum Melt 316L Stainless Steel (SM6L)
- Double Vacuum Melt 316L Stainless Steel (VV6L) (equivalent with SEMI F20)
- Compact Design
- Low Particle Entrapment

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
3.000 psig (207 bar)	-23 °C	204 °C		✓	✓	ZCR (M), ZCR (F), Butt Weld, Compression Two Ferrule	1/2"

UHP PRODUCTS

BL Series

Bellows Valves

APPLICATIONS

- Semiconductor
- Biotech
- Pharmaceutical

FEATURES

- Single Vacuum Melt 316L Stainless Steel (SM6L)
- Double Vacuum Melt 316L Stainless Steel (VV6L) (equivalent with SEMI F20)
- 2-Way design
- Metal bellows seal
- Long life cycle
- PCTFE seats



Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
500 psig (34,4 bar)	-28 °C	93 °C		✓	✓	ZCR (M), ZCR (F), Butt Weld, Compression Two Ferrule	½"

BLF Series

Forged Bellows Valves

APPLICATIONS

- Semiconductor
- Biotech
- Pharmaceutical

FEATURES

- Stainless Steel S316 / S316L
- Single Vacuum Melt 316L Stainless Steel (SM6L) (equivalent with SEMI F20)
- 2-Way forged body design
- Metal bellows seal
- Long life cycle
- PCFTE seats



Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
145 psig (10 bar)	-28 °C	93 °C	✓	✓		ZCR (M), ZCR (F), Butt Weld, Compression Two Ferrule	1"

HY-LOK SOLUTIONS FOR ULTRA HIGH PURITY APPLICATIONS



BLY Series

Y-Type Manual Bellows Valves



APPLICATIONS

- High purity gas distribution system control
- High purity gas valves for point-of-use service
- Superior containment and cleanliness for most critical valves applications

FEATURES

- Single Vacuum Melt 316L Stainless Steel (SM6L)
Double Vacuum Melt 316L Stainless Steel (VV6L)
(equivalent with SEMI F20)
- Bellows design for high purity & long life cycle
- Compact design
- 5 Or 10 $\mu\text{in Ra}$ internal surface
- Downstream purge connections available

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
100 psig (7 bar)	-23°C	65 °C		✓	✓	Butt Weld	¾"

DV Series

Diaphragm Valves



APPLICATIONS

- Semiconductor
- Biotech
- Pharmaceutical

FEATURES

- Single Vacuum Melt 316L Stainless Steel (SM6L)
Double Vacuum Melt 316L Stainless Steel (VV6L)
(equivalent with SEMI F20)
- Metal to metal diaphragm seal
- Low Particle Entrapment
- 5 Or 10 $\mu\text{in Ra}$ internal surface

Max Operating Pressure @ 38 °C	Temperature		Material			Connection Type	Max End Connection Size
	Min	Max	S316/316L	SM6L	VV6L		
3.000 psig (207 bar)	-23°C	65 °C		✓	✓	ZCR (M), ZCR (F), Butt Weld, Compression Two Ferrule	¾"



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