

U71 SERIES ULTRA HIGH PURITY BACK PRESSURE REGULATOR

U71 Series Diaphragm Back Pressure Regulator is used to regulate the upstream pressure with precise pressure control, it is manufactured in accordance with SEMI requirement and assembled, tested and packaged in a class 100 clean room.



» U71SLAK-GW-VSF4-S2

Features

- 316L or 316L VAR stainless steel body
- Metal to metal diaphragm to body seal
- Easy front panel and rear bracket mounting
- Gauge ports are standard with 1/4" face seal male
- Fully internal electropolished
- Cleaned, assembled, and packaged for high-purity semi-conductor applications
- High-cycle life
- 100% Helium-leak tested

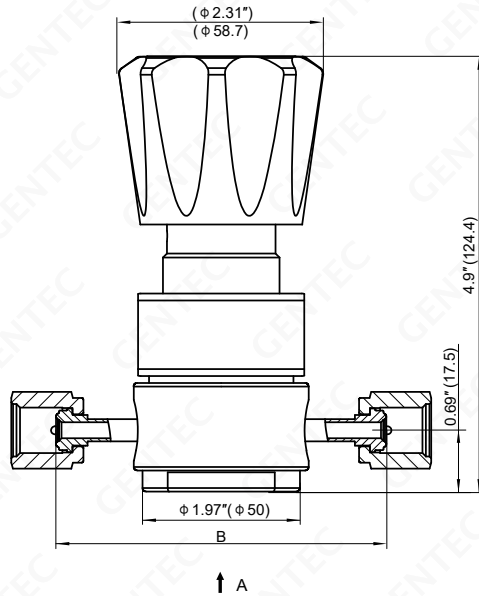
Materials

- Body: 316L, 316L VAR
- Seat: PCTFE
- Diaphragm: 316L, C-22 (option)

Specifications

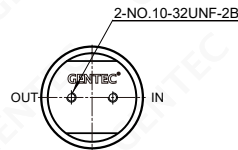
- Maximum Working Pressure: 500 psi
- Back Pressure Range: 0~25 psi, 0~50 psi, 0~75 psi, 0~100 psi, 0~150 psi, 0~250 psi
- Temperature Range: -40°F ~ 165°F (-40°C ~ 74°C)
- Cv: 0.08
- Inboard Leakage: 1×10^{-9} atm/sec He
- Proof Pressure: 150% of maximum rated pressure
- Burst Pressure: 400% of maximum rated pressure
- Surface Finish: 10 uin
- Internal Volume: 5.2 cc

Dimensions



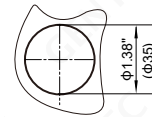
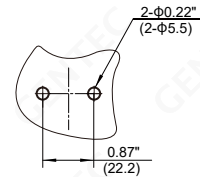
Dimension: in.(mm)

Connection Type		Dimensions
		B
VSF4	1/4" swivel female FSR	3.7" (94)
VSM4	1/4" swivel male FSR	3.7" (94)
VSF8	1/2" swivel female FSR	4.7" (119.4)
VSM8	1/2" swivel male FSR	4.7" (119.4)

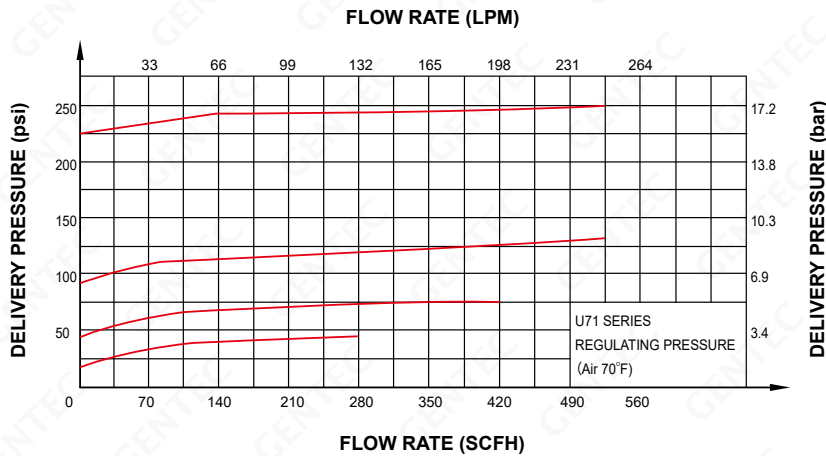


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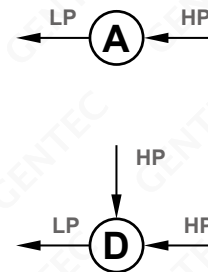
Rear Bracket Mounting


Front Panel Mounting
Maximum thickness
is 0.28" (7.1mm)

Flow Data



Regulator Port Configurations



Ordering Information

EX: U71	SL	A	K	- G	W	- VSF4- VSM4	- H	- P	- S2
Series Number	Body Material	Body Ports	Seat Material	Back Pressure Range	Pressure Gauge	Inlet / Outlet Connection	Corrosion Resistance	Options	Process Standard
U71	SL: 316L SLV: 316L VAR	A D	K: PCTFE	G: 0 ~ 250 psi H: 0 ~ 150 psi I: 0 ~ 100 psi J: 0 ~ 75 psi K: 0 ~ 50 psi L: 0 ~ 25 psi	W: Without Gauge P: psi / bar Gauge K: psi / kPa Gauge	VSF4, VSM4 VSF8, VSM8 When Inlet and Outlet Connections are the same, please write a connection code.	None: 316L H: C-22 Diaphragm	None: Rear Bracket Mounting P: Panel Mounting	S1: UHP Process Standard S2: Photovoltaic Process Standard

U72 SERIES ULTRA HIGH PURITY BACK PRESSURE REGULATOR

U72 Series Diaphragm Back Pressure Regulator is used to regulate the upstream pressure with precise pressure control, it is manufactured in accordance with SEMI requirement and assembled, tested and packaged in a class 100 clean room.



» U72SLAK-TW-VSF4-S2

Features

- 316L or 316L VAR stainless steel body
- Metal to metal diaphragm to body seal
- Easy front panel and rear bracket mounting
- Gauge ports are standard with 1/4" face seal male
- Fully internal electropolished
- Cleaned, assembled, and packaged for high-purity semi-conductor applications
- High-cycle life
- 100% Helium-leak tested

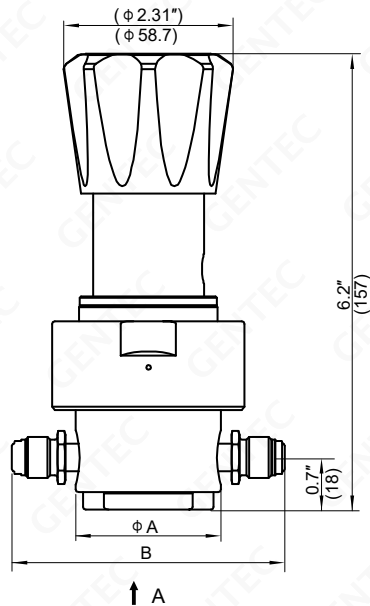
Materials

- Body: 316L, 316L VAR
- Seat: PCTFE
- Diaphragm: C-22

Specifications

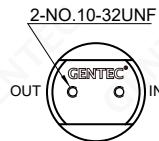
- Maximum Working Pressure: 500 psi
- Back Pressure Range: 0~25 psi, 0~50 psi, 0~75 psi, 0~100 psi, 0~150 psi, 0~200 psi
- Temperature Range: -40°F ~ 165°F (-40°C ~ 74°C)
- Cv: 0.04
- Inboard Leakage: 1×10^{-9} atm/sec He
- Proof Pressure: 150% of maximum rated pressure
- Burst Pressure: 400% of maximum rated pressure
- Surface Finish: 10 uin
- Internal Volume: 17.8 cc

Dimensions

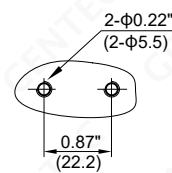


Dimension: in.(mm)

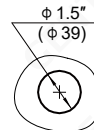
Connection Type		Dimensions	
		A	B
VSF4	1/4" swivel female FSR	2" (50.8)	3.7" (94)
VSM4	1/4" swivel male FSR		4" (101.6)
VSF8	1/2" swivel female FSR	2.5" (63.5)	5.22" (132.6)
VSM8	1/2" swivel male FSR		5.22" (132.6)
TW6	3/8" weld stub		4" (101.6)
TW8	1/2" weld stub		4.34" (110.2)



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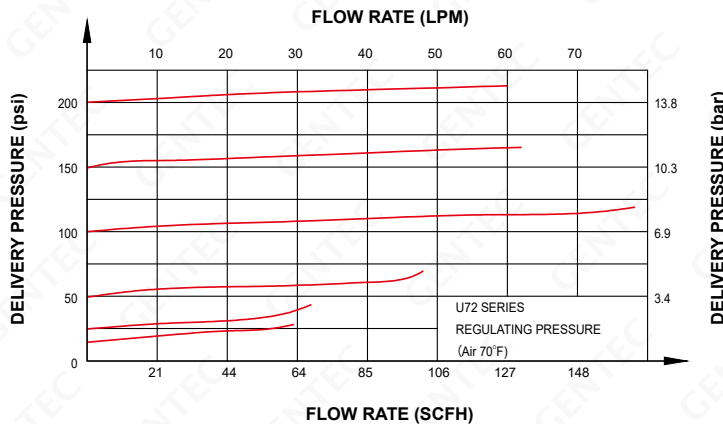


Rear Bracket Mounting

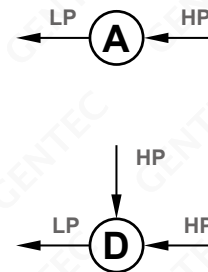


Front Panel Mounting
Maximum thickness
is 0.28" (7.1mm)

Flow Data



Regulator Port Configurations



Ordering Information

EX:	U72	SL	A	K	- T	W	- VSF4- VSM4	- H	- P	- S2
	Series Number	Body Material	Body Ports	Seat Material	Back Pressure Range	Pressure Gauge	Inlet / Outlet Connection	Corrosion Resistance	Options	Process Standard
	U72	SL: 316L SLV: 316L VAR	A D	K: PCTFE	T: 0 ~ 200 psi H: 0 ~ 150 psi I: 0 ~ 100 psi J: 0 ~ 75 psi K: 0 ~ 50 psi L: 0 ~ 25 psi	W: Without Gauge P: psi / bar Gauge K: psi / kPa Gauge	VSF4, VSM4 VSF8, VSM8 TW6, TW8 When Inlet and Outlet Connections are the same, please write a connection code.	H: C-22 stem and nozzle	None: Rear Bracket Mounting P: Panel Mounting	S1: UHP Process Standard S2: Photovoltaic Process Standard

U73 SERIES ULTRA HIGH PURITY BACK PRESSURE REGULATOR

U73 Series Diaphragm Back Pressure Regulator is used to regulate the upstream pressure with precise pressure control, it is manufactured in accordance with SEMI requirement and assembled, tested and packaged in a class 100 clean room.



» U73SLAK-TW-VSF4-S2

Features

- 316L or 316L VAR stainless steel body
- Metal to metal diaphragm to body seal
- Easy front panel and rear bracket mounting
- Gauge ports are standard with 1/4" face seal male
- Fully internal electropolished
- Cleaned, assembled, and packaged for high-purity semi-conductor applications
- High-cycle life
- 100% Helium-leak tested

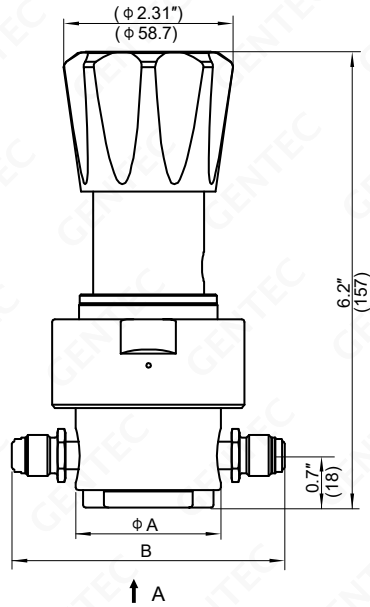
Materials

- Body: 316L, 316L VAR
- Seat: PCTFE
- Diaphragm: C-22

Specifications

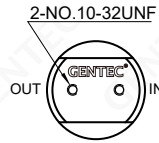
- Maximum Working Pressure: 500 psi
- Back Pressure Range: 0~25 psi, 0~50 psi, 0~75 psi, 0~100 psi, 0~150 psi, 0~200 psi
- Temperature Range: -40°F ~ 165°F (-40°C ~ 74°C)
- Cv: 0.3
- Inboard Leakage: 1×10^{-9} atm/sec He
- Proof Pressure: 150% of maximum rated pressure
- Burst Pressure: 400% of maximum rated pressure
- Surface Finish: 10 uin
- Internal Volume: 16 cc

Dimensions

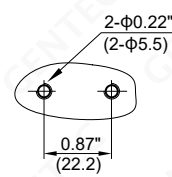


Dimension: in.(mm)

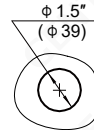
Connection Type		Dimensions	
		A	B
VSF4	1/4" swivel female FSR	2" (50.8)	3.7" (94)
VSM4	1/4" swivel male FSR		4" (101.6)
VSF8	1/2" swivel female FSR	2.5" (63.5)	5.22" (132.6)
VSM8	1/2" swivel male FSR		5.22" (132.6)
TW6	3/8" weld stub		4" (101.6)
TW8	1/2" weld stub		4.34" (110.2)



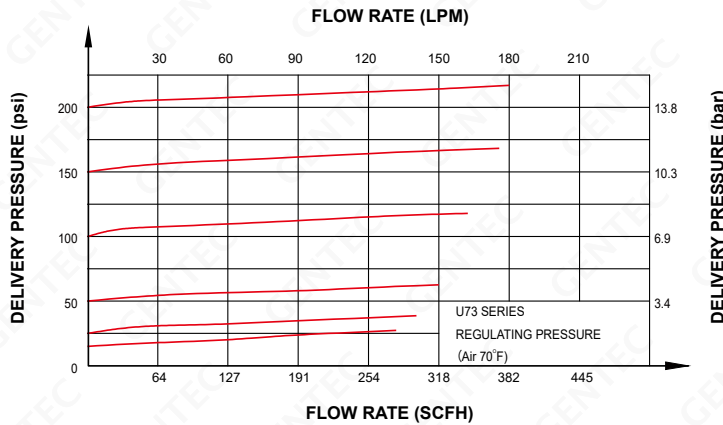
A



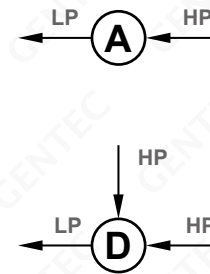
Rear Bracket Mounting


Front Panel Mounting
Maximum thickness
is 0.28" (7.1mm)

Flow Data



Regulator Port Configurations



Ordering Information

EX:	U73	SL	A	K	- T	W	- VSF4- VSM4	- H	- P	- S2
	Series Number	Body Material	Body Ports	Seat Material	Back Pressure Range	Pressure Gauge	Inlet / Outlet Connection	Corrosion Resistance	Options	Process Standard
	U73	SL: 316L SLV: 316L VAR	A D	K: PCTFE	T: 0 ~ 200 psi H: 0 ~ 150 psi I: 0 ~ 100 psi J: 0 ~ 75 psi K: 0 ~ 50 psi L: 0 ~ 25 psi	W: Without Gauge P: psi / bar Gauge K: psi / kPa Gauge	VSF4, VSM4 VSF8, VSM8 TW6, TW8 When Inlet and Outlet Connections are the same, please write a connection code.	H: C-22 stem and nozzle	None: Rear Bracket Mounting P: Panel Mounting	S1: UHP Process Standard S2: Photovoltaic Process Standard

U74 SERIES ULTRA HIGH PURITY BACK PRESSURE REGULATOR

U74 Series Diaphragm Back Pressure Regulator is used to regulate the upstream pressure with precise pressure control, it is manufactured in accordance with SEMI requirement and assembled, tested and packaged in a class 100 clean room.



» U74SLAQ-GW-VSF4-H-S2

Features

- 316L or 316L VAR stainless steel body
- Metal to metal diaphragm to body seal
- Easy front panel and rear bracket mounting
- Gauge ports are standard with 1/4" face seal male
- Fully internal electropolished
- Cleaned, assembled, and packaged for high-purity semi-conductor applications
- High-cycle life
- 100% Helium-leak tested

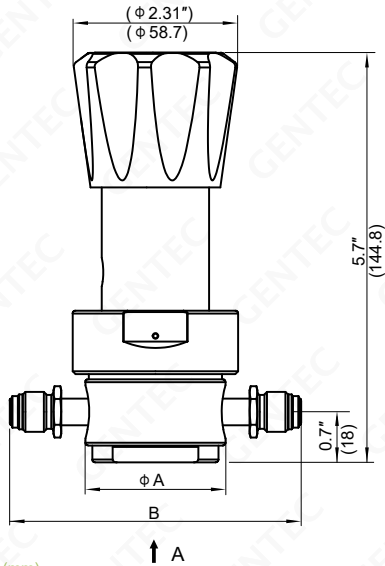
Materials

- Body: 316L, 316L VAR
- Seat: FFKM
- Diaphragm: C-22

Specifications

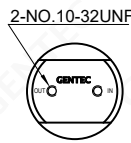
- Maximum Working Pressure: 500 psi
- Back Pressure Range: 0~25 psi, 0~50 psi, 0~75 psi, 0~100 psi, 0~150 psi, 0~250 psi
- Temperature Range: -40°F ~ 165°F (-40°C ~ 74°C)
- Cv: 0.3
- Inboard Leakage: 1×10^{-9} atm/sec He
- Proof Pressure: 150% of maximum rated pressure
- Burst Pressure: 400% of maximum rated pressure
- Surface Finish: 10 uin
- Internal Volume: 8.4 cc

Dimensions

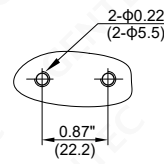


Dimension: in.(mm)

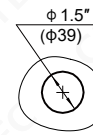
Connection Type		Dimensions	
		A	B
VSF4	1/4" swivel female FSR	2" (50.8)	3.7" (94)
VSM4	1/4" swivel male FSR		3.7" (94)
VSF8	1/2" swivel female FSR		4.7" (119.4)
VSM8	1/2" swivel female FSR		4.7" (119.4)
TW4	1/4" weld stub		2.96" (75.2)
TW6	3/8" weld stub		2.96" (75.2)



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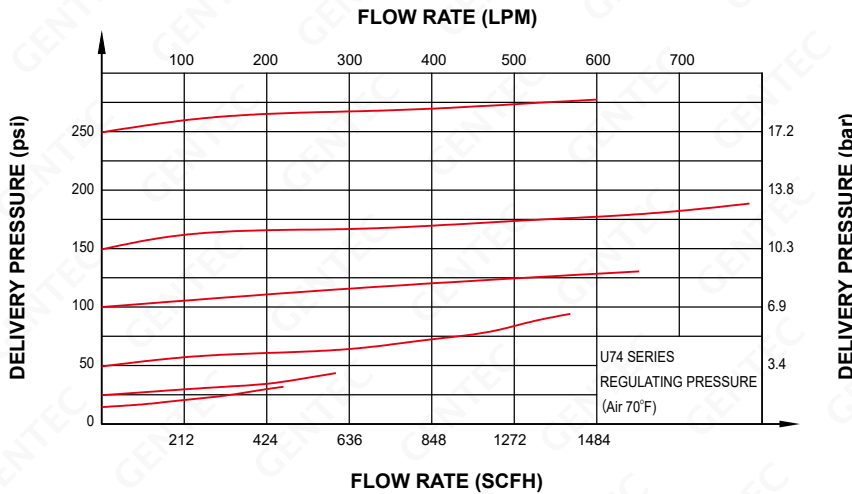


Rear Bracket Mounting

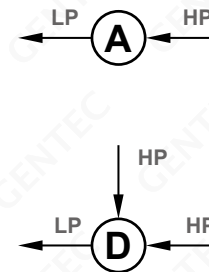


Front Panel Mounting
Maximum thickness
is 0.28" (7.1mm)

Flow Data



Regulator Port Configurations



Ordering Information

EX: U74	SL	A	Q	- G	W	- VSF4- VSM4	- H	- P	- S2
Series Number	Body Material	Body Ports	Seat Material	Back Pressure Range	Pressure Gauge	Inlet / Outlet Connection	Corrosion Resistance	Options	Process Standard
U74	SL: 316L SLV: 316L VAR	A D	Q: FFKM	G: 0 ~ 250 psi H: 0 ~ 150 psi I: 0 ~ 100 psi J: 0 ~ 75 psi K: 0 ~ 50 psi L: 0 ~ 25 psi	W: Without Gauge P: psi / bar Gauge K: psi / kPa Gauge	VSF4, VSM4 VSF8, VSM8 When Inlet and Outlet Connections are the same, please write a connection code.	None: 316L Nozzle H: C-22 Nozzle	None: Rear Bracket Mounting P: Panel Mounting	S1: UHP Process Standard S2: Photovoltaic Process Standard