



GENTEC® R72SL Series Back Pressure Regulator is a piston-sensed high purity back regulator designed for analytical applications where a constant back pressure is desired.

Product Features

- Piston Type Configuration
- Inlet & Outlet Port Size: 1/4" NPT(F)

» R72SLAK-EW-00-00

Materials

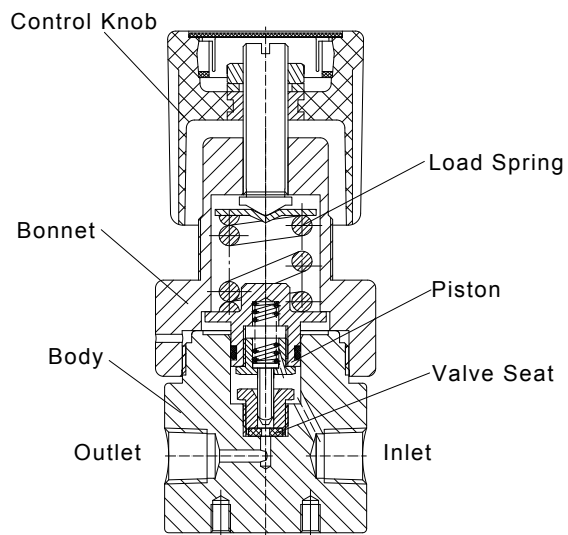
• Body	316L Stainless Steel
• Seat	PCTFE
• Piston	316L Stainless Steel
• Stem	316L Stainless Steel
• Spring	316L Stainless Steel

Applications

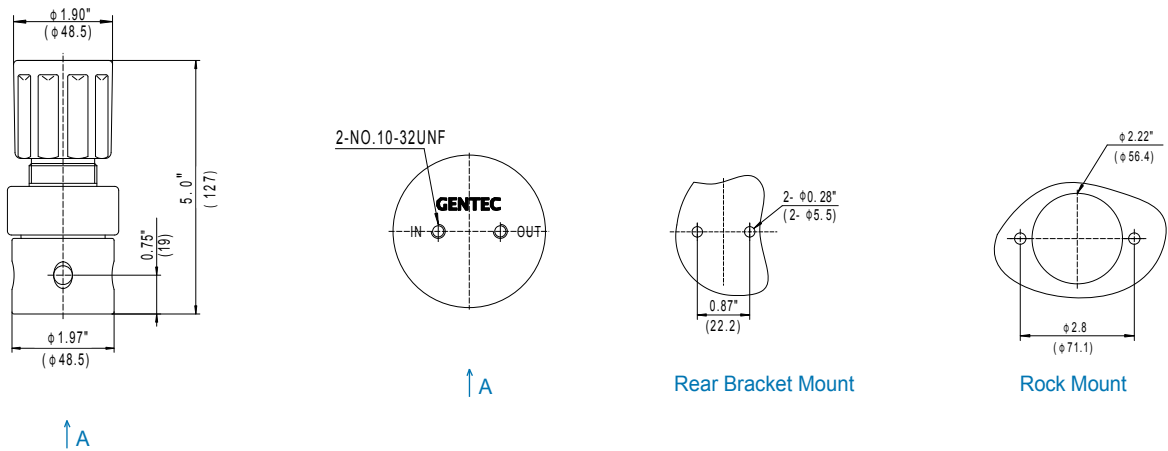
- Process Control
- Petrochemical Industry
- Gas Chromatography
- Research Laboratories

Specifications

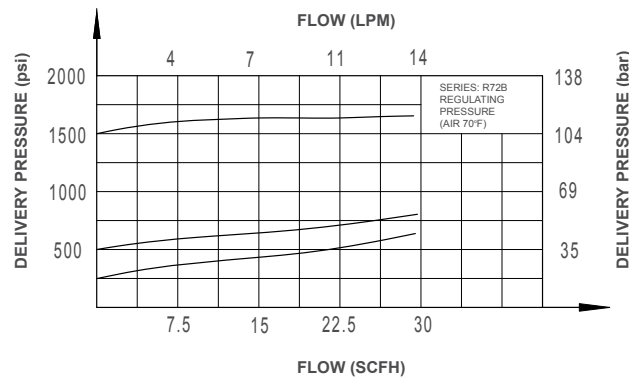
- **Maximum back pressure:** 1500 psi (103 bar)
- **Safety test pressure:** 1.5 x Maximum pressure
- **Temperature range:** -40 to 165°F (-40 to 74°C)
- **Inboard leakage:** 2×10^{-8} atm.cc/sec He
- **Outboard leakage:** 2×10^{-8} atm.cc/sec He
- **Maximum Cv:** 0.14
- **Weight:** 2.65 lb (1.2 kg)



Dimensions



Flow Data



Body Port



Ordering Information

EX: R72SL	A	K -	E	W -	00 -	00 -	J
Series	Body Ports	Seat	Inlet Pressure Range	Gauge	Inlet Connections	Outlet Connections	Options
• R72SL	A	K: PCTFE	E: 0-1500 psi (103 bar) F: 0-500 psi (35 bar) G: 0-250 psi (17 bar)	W: No Gauge	00: 1/4" NPT(F) Other connections available*	00: 1/4" NPT(F) Other connections available*	Blank: None J: Rack Mount

*: For more connection options contact Gentec.

R73SL SERIES

High Pressure Back Pressure Regulator

Specialty Gas Equipment



GENTEC® R73SL Series Back Pressure Regulator is a piston-sensed high purity regulator designed for analytical applications where a constant back pressure is desired.

Product Features

- Piston Type Configuration
- Inlet & Outlet Port Size: 1/4" NPT(F)

» R73SLAE-BW-00-00

Materials

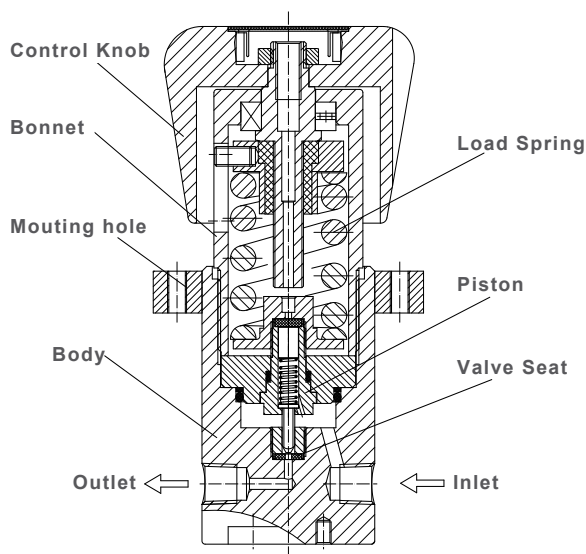
- | | |
|----------|----------------------|
| • Body | 316L Stainless Steel |
| • Seat | PEEK |
| • Piston | 316L Stainless Steel |
| • Stem | 316L Stainless Steel |
| • Spring | 316L Stainless Steel |

Applications

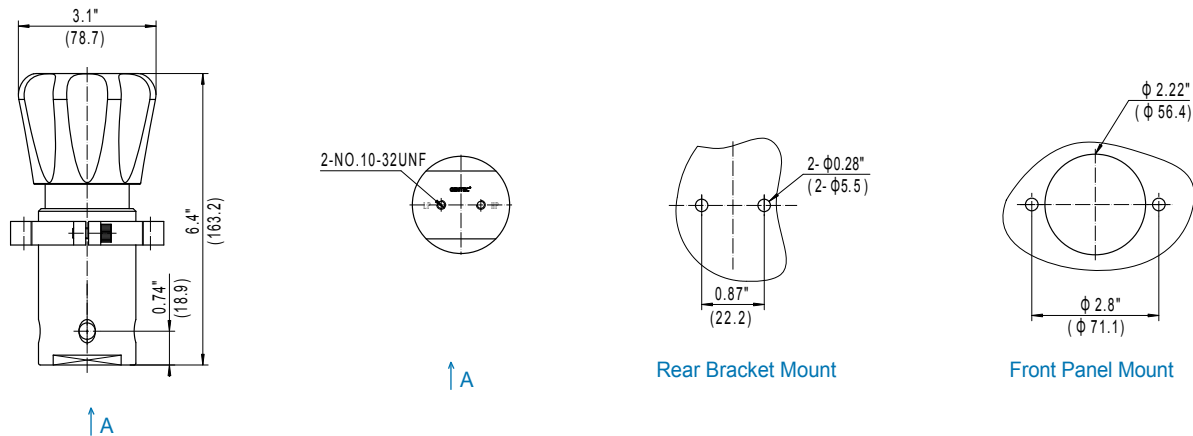
- Process Control
- Petrochemical Industry
- Gas Chromatography
- Research Laboratories

Specifications

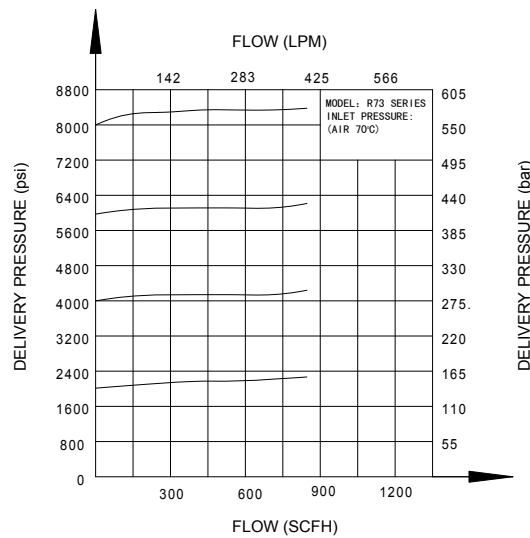
- **Maximum back pressure:** 10000 psi (690 bar)
- **Safety test pressure:** 1.5 x Maximum pressure
- **Temperature range:** -40 to 165°F (-40 to 74°C)
- **Inboard leakage:** 2×10^{-8} atm.cc/sec He
- **Outboard leakage:** 2×10^{-8} atm.cc/sec He
- **Maximum Cv:** 0.1
- **Weight:** 4.85 lb (2.2 kg)



Dimensions



Flow Data



Body Port



Ordering Information

EX: R73SL	A	E -	B	W -	00 -	00 -
Series	Body Ports	Seat	Inlet Pressure Range	Gauge	Inlet Connections	Outlet Connections
• R73SL	A	E: PEEK	A: 0-10000 psi (690 bar) B: 0-6000 psi (414 bar) C: 0-4500 psi (310 bar) D: 0-3000 psi (206 bar)	W: No Gauge	00: 1/4" NPT(F) Other connections available*	00: 1/4" NPT(F) Other connections available*

*: For more connection options contact Gentec.

R74SL SERIES

Medium Flow Back Pressure Regulator

Specialty Gas Equipment



» R74SLAK-GW-04-04

Materials

- | | |
|-------------|----------------------|
| • Body | 316L Stainless Steel |
| • Seat | PEEK |
| • Diaphragm | 316L Stainless Steel |
| • Stem | 316L Stainless Steel |
| • Spring | 316L Stainless Steel |

GENTEC® R74SL Series Back Pressure Regulator is a diaphragm-sensed high purity regulator designed for analytical applications where a constant back pressure is desired.

Product Features

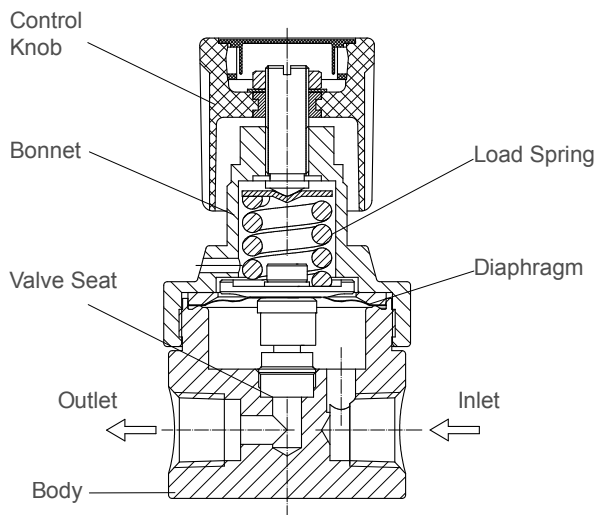
- Diaphragm Type Configuration
- Inlet & Outlet Port Size: 1/2" NPT(F)

Applications

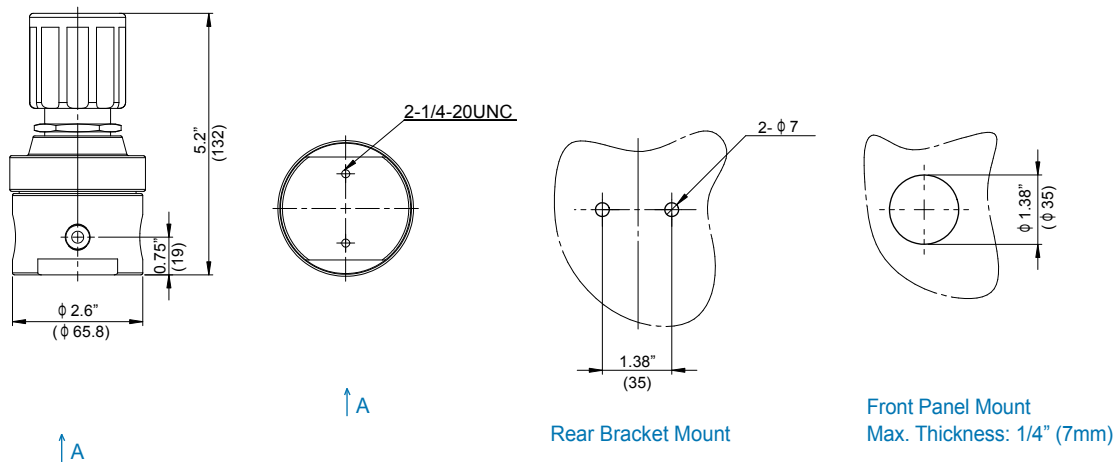
- Process control
- Laboratory
- Petrochemical industry
- Gas analysis

Specifications

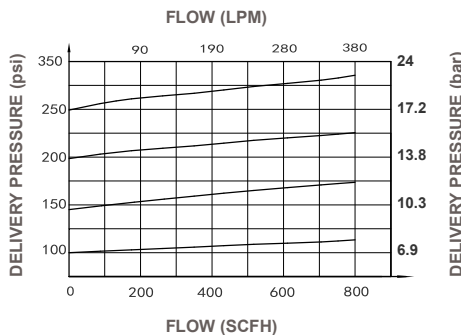
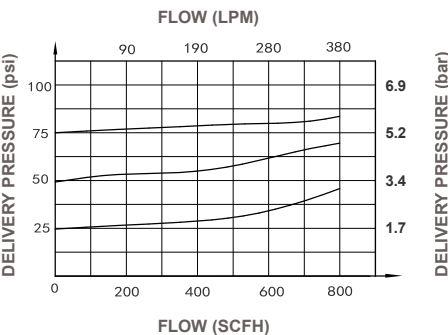
- **Maximum back pressure:** 500 psi (35 bar)
- **Safety test pressure:** 1.5 x Maximum pressure
- **Temperature range:** -40 to 165°F (-40 to 74°C)
- **Inboard leakage:** 2×10^{-8} atm.cc/sec He
- **Outboard leakage:** 2×10^{-8} atm.cc/sec He
- **Maximum Cv:** 0.6
- **Weight:** 3.53 lb (1.6 kg)



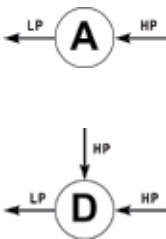
Dimensions



Flow Data



Body Port



Ordering Information

EX: R74SL	A	K -	K	W -	04 -	04 -	P
Series	Body Ports	Seat	Inlet Pressure Range	Gauge	Inlet Connections	Outlet Connections	Options
• R74SL	A D	K: PCTFE	G: 0-250 psi (17 bar) I: 0-100 psi (7 bar) K: 0-50 psi (3 bar) L: 0-25 psi (2 bar)	W: No Gauge	04: 1/2" NPT(F) Other connections available*	04: 1/2" NPT(F) Other connections available*	P: Panel Mount

*: For more connection options contact Gentec.



» R75SLAK-GW-06-06

Materials

• Body	316L Stainless Steel
• Seat	PCTFE
• Diaphragm	316L Stainless Steel
• Stem	316L Stainless Steel
• Spring	316L Stainless Steel

GENTEC® R75SL Series Back Pressure Regulator is a diaphragm-densed high purity regulator designed for analytical applications where a constant back pressure is desired.

Product Features

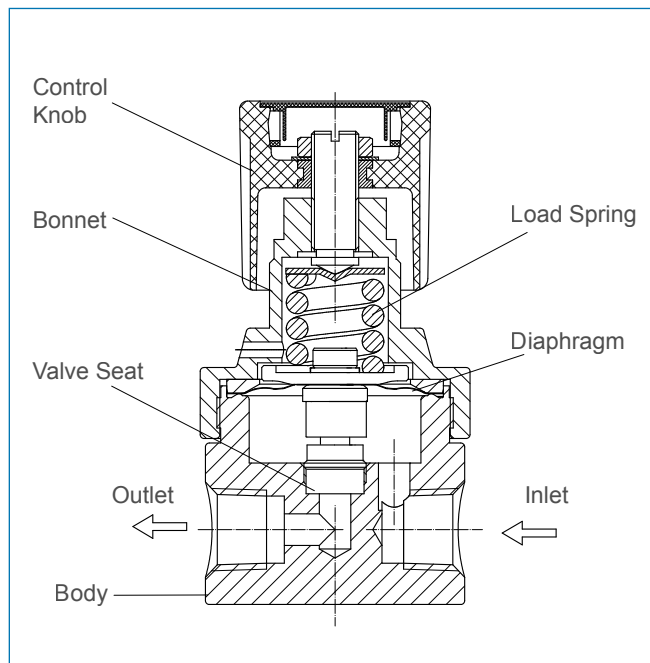
- Diaphragm Type Configuration
- Inlet & Outlet Port Size: 3/4" NPT(F)

Applications

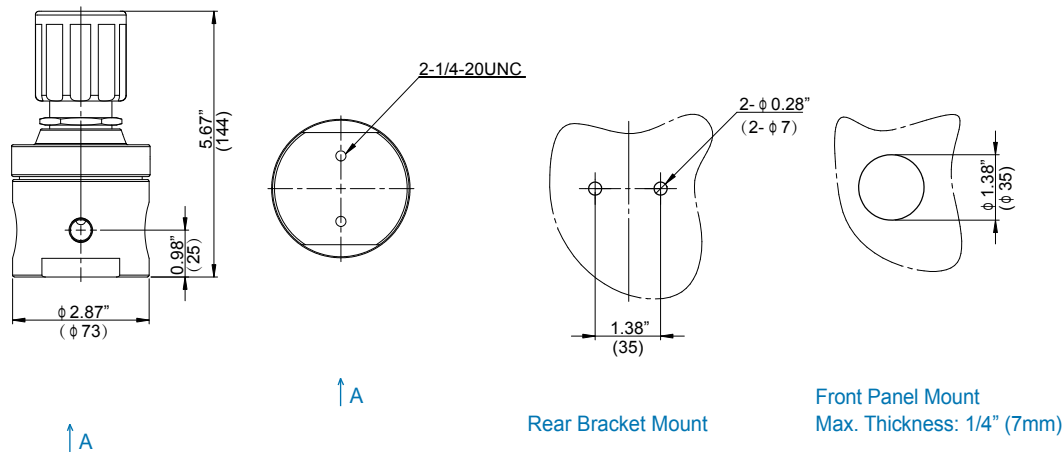
- Process control
- Laboratory
- Petrochemical industry
- Gas analysis

Specifications

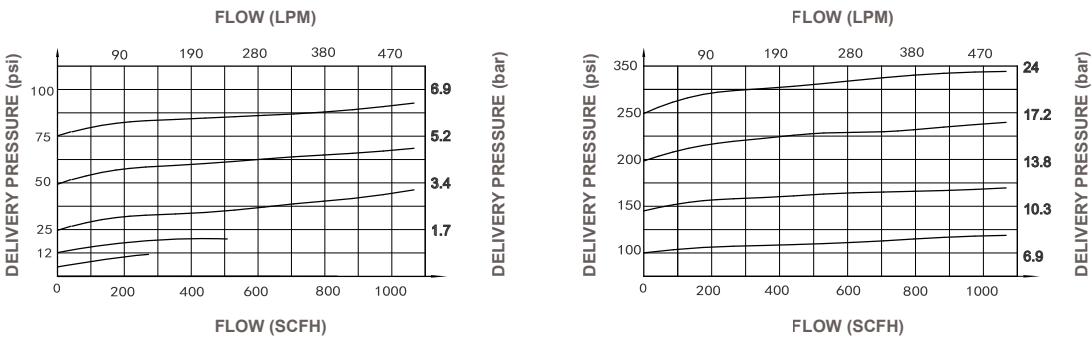
- **Maximum back pressure:** 500 psi (35 bar)
- **Safety test pressure:** 1.5 x Maximum pressure
- **Temperature range:** -40 to 165°F (-40 to 74°C)
- **Inboard leakage:** 2×10^{-8} atm.cc/sec He
- **Outboard leakage:** 2×10^{-8} atm.cc/sec He
- **Maximum Cv:** 1.2
- **Weight:** 4.63 lb (2.1 kg)



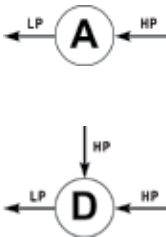
Dimensions



Flow Data



Body Port



Ordering Information

EX: R75SL	A	K -	K	W -	06 -	06 -	P
Series	Body Ports	Seat	Inlet Pressure Range	Gauge	Inlet Connections	Outlet Connections	Options
• R75SL	A D	K: PCTFE	G: 0-250 psi (17 bar) I: 0-100 psi (7 bar) K: 0-50 psi (3 bar) L: 0-25 psi (2 bar) M: 0~15 psi (1 bar) N: 0~6 psi (0.4 bar)	W: No Gauge P: psi / bar K: psi / kPa	06: 3/4" NPT(F) Other connections available*	06: 3/4" NPT(F) Other connections available*	P: Panel Mount

*: For more connection options contact Gentec.

R77SL SERIES

Back Pressure Low Flow Regulator

Specialty Gas Equipment



» R77SLAK-GW-00-00

Materials

- | | |
|------------------|----------------------|
| • Body | 316L Stainless Steel |
| • Bonnet | 316L Stainless Steel |
| • Seat | PCTFE, PTFE |
| • Diaphragm | 316L Stainless Steel |
| • Adjusting Knob | ABS Plastic |

GENTEC® R77SL Series Back Pressure Regulator is a diaphragm-sensed single-stage high purity regulator designed for applications where a constant back pressure is desired.

Product Features

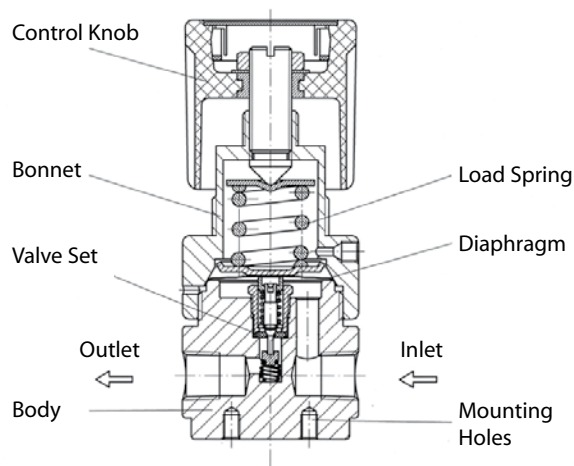
- Single-Stage Configuration
- Inlet & Outlet Port Size: 1/4" NPT(F)
- 2" Pressure Gauge

Applications

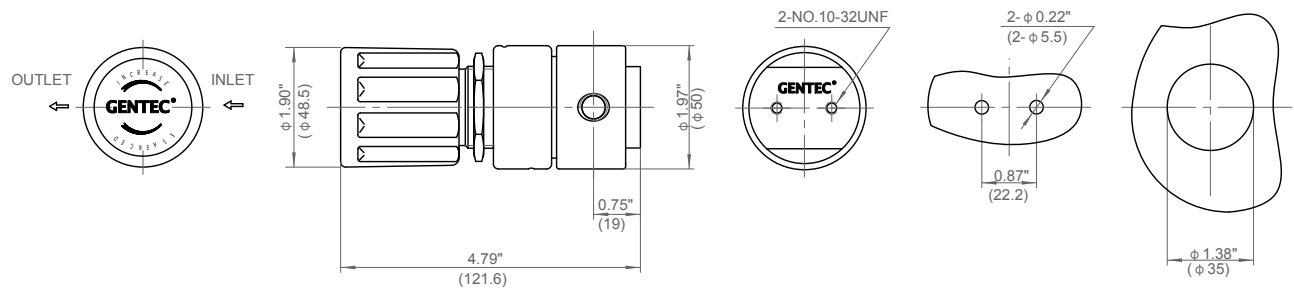
- Process Control
- Petrochemical Industry
- Gas Chromatography
- Research Laboratories

Specifications

- **Maximum inlet pressure:** 250 psi (17 bar)
- **Safety test pressure:** 1.5 x Maximum inlet pressure
- **Temperature range:** -40 to 165°F (-40 to 74°C)
- **Inboard leakage:** 2×10^{-8} atm.cc/sec He
- **Outboard leakage:** 2×10^{-8} atm.cc/sec He
- **Maximum Cv:** 0.08
- **Weight:** 2.2 lb (1 kg)



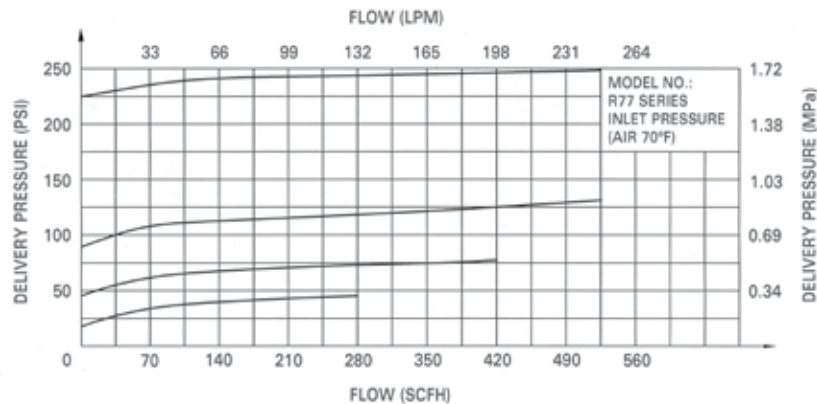
Dimensions



Rear Bracket Mount Front Panel Mount
Max. Thickness: 1/4" (7mm)

Flow Data

Body Port



Ordering Information

EX: R77SL	A	K -	G	W -	00 -	00 -	P
Series	Body Ports	Seat	Outlet Pressure Ranges	Gauge	Inlet Connections	Outlet Connections	Options
• R77SL	A	K: PCTFE T: PTFE	G: 0-250 psi (17 bar) I: 0-100 psi (7 bar) K: 0-50 psi (3 bar) L: 0-25 psi (1.5 bar)	P: psi / bar K: psi / kPa W: No Gauge	00: 1/4" NPT(F)	00: 1/4" NPT(F)	P: Panel Mount

R78SL SERIES

High Accuracy Back Pressure Regulator

Specialty Gas Equipment



» R78SLAE-MW-00-00

GENTEC® R78SL Series Back Pressure Regulator is a diaphragm-sensed high purity regulator. The large sensing seat area ratio provides a low crack to reseal pressure differential and excellent repeatability.

Product Features

- Metal-to-Metal Seal
- Inlet & Outlet Port Size: 1/4" NPT(F)

Materials

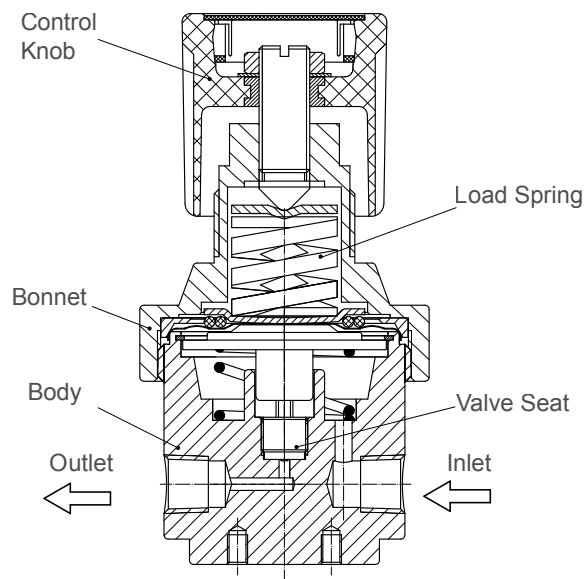
- | | |
|------------------|----------------------|
| • Body | 316L Stainless Steel |
| • Bonnet | 316L Stainless Steel |
| • Seat | PEEK |
| • Diaphragm | 316L Stainless Steel |
| • Adjusting Knob | ABS Plastic |

Applications

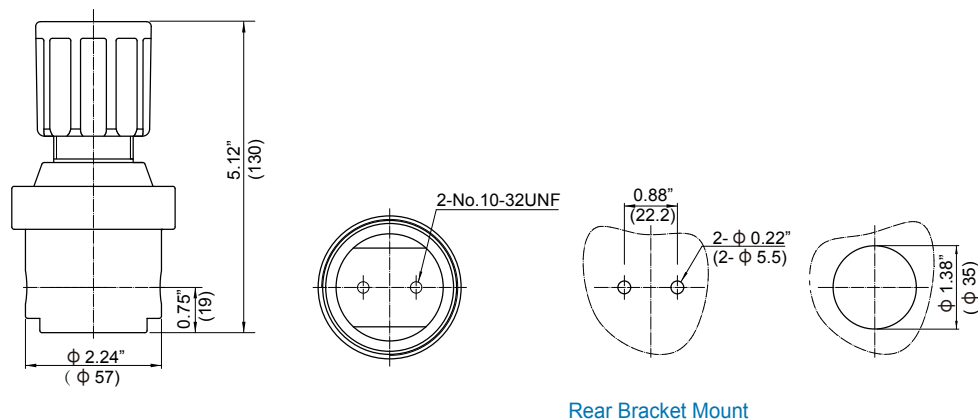
- Process Control
- Petrochemical Industry
- Gas Chromatography
- Research Laboratories

Specifications

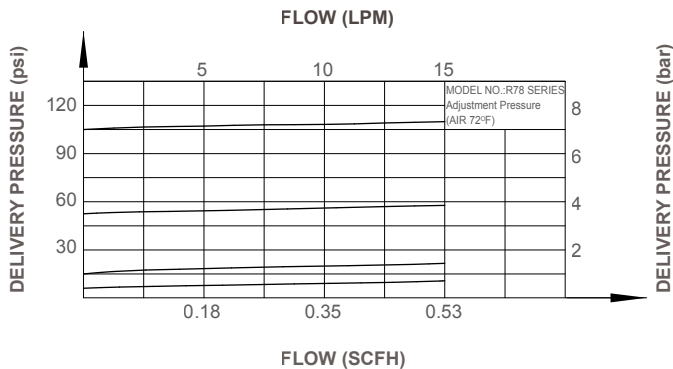
- **Maximum inlet pressure:** 150 psi (10 bar)
- **Safety test pressure:** 1.5 x Maximum inlet pressure
- **Temperature range:** -40 to 165°F (-40 to 74°C)
- **Inboard leakage:** 2×10^{-8} atm.cc/sec He
- **Outboard leakage:** 2×10^{-8} atm.cc/sec He
- **Maximum Cv:** 0.04
- **Weight:** 2.65 lb (1.2 kg)



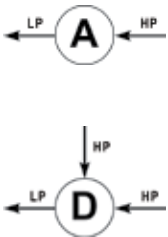
Dimensions



Flow Data



Body Port



Ordering Information

EX: R78SL	A	E -	K	W -	00 -	00 -	P
Series	Body Ports	Seat	Outlet Pressure Ranges	Gauge	Inlet Connections	Outlet Connections	Options
• R78SL	A D	E: PEEK	I: 0-100 psi (7 bar) K: 0-50 psi (3 bar) M: 0-15 psi (1 bar) N: 0-6 psi (0.4 bar)	P: psi / bar K: psi / kPa W: No Gauge	00: 1/4" NPT(F) Other connections available*	00: 1/4" NPT(F) Other connections available*	P: Panel Mount

*: For more connection options contact Gentec.