FR2 Series Normal Diaphragm Line Pressure Regulator Max.Inlet Pressure: 1500 psig.

Feature

- Piston sensing design with greater outlet pressure adjustment range
- Inner small volume
- 40 μm filter element installed at the inlet
- Special cleaning and packaging processes for oxygen-rich environments

FR1S Series Compact Piston Line Pressure Regulator

EMICONDUCTOR &

SPECIALTY GAS APPLICATIONS-

PRESSURE REDUCING REGULATOR

- Compact design, small size
- Inner small volume
- 40 μm filter element installed at the inlet

- Excellent sensitivity and set point pressure stability
- Inner small volume

Feature

40 μm filter element installed at the inlet

FR2 Series Normal Diaphragm

Max.Inlet Pressure: 1500 psig.

Line Pressure Regulator

Technical Data

- Media contacting material 316,316L SS or Brass (nickel plated) for body Seat: PCTFE, PEEK or Vespel Piston:316L O-ring:Viton,Kalrez or Buna-N Filter: 316L
- Function
- Test pressure: 150% of max rated pressure Burst pressure: 300% of the max rated pressure Leak rate: Internal:Bubble-tight External:Bubble-tight
- Flow coefficient (Cv):0.06
- Weight(only regulator):0.93lbs(0.4kg)
- Body port: inlet, outlet 1/4" NPT female thread
- Working condition:
- Maximum inlet pressure: 6000 psig Controlled pressure ranges:0~8,0~500,0~1500 psig Working temperature: $-15^{\circ}F \sim +165^{\circ}F$ ($-26^{\circ}C \sim +74^{\circ}C$)

Technical Data

- Single-stage regulator
- Maximum control pressure:3000 or 4500 psig
- Material of the internal components: Seat: PEEK,PCTFE,PEEK Diaphragm:Alloy Filter: 316L
- Working temperature: -40°F~+165°F (-40°C~+74°C)
- Leak rate: (helium): Internal:≤1x10⁻⁷ mbar·l/s External:≤1x10⁻⁹ mbar·l/s
- Flow coefficient (Cv):0.06
- Weight(only regulator):≈0.86 kg
- Body port: inlet, outlet, pressure gauge port 1/4" NPT female thread





Technical Data

- Single-stage regulator
- Maximum control pressure:6000 psig
- Controlled pressure ranges:0~3000 psig
- Material of the internal components: Main seat: PEEK,PCTFE,PEEK Diaphragm: 316L Filter: 316L
- Working temperature:-15°F~+165°F(-26°C~+74°C)
- Leak rate: Internal:Bubble-tight External: Bubble-tight
- Flow coefficient (Cv): Without vent: 0.06, 0.2, 0.5
- Weight(only regulator):≈1 kg Body port: inlet, outlet, pressure gauge port - 1/4" NPT female thread

FR4 Series Medium Flow Line Pressure Regulator

Feature

- High flow rate (Cv 1.1) and high sensitivity
- Large diameter convoluted diaphragm to increase pressure sensitivity
- Balanced spool design reduces pressure supply effect
- Special cleaning and packaging processes for oxygen-rich environments

Technical Data

- Single-stage regulator
- Maximum control pressure:500 and 3000 psig
- Controlled pressure ranges:0~500psig
- Material of the internal components: Seat: PTFE、PCTFE、PEEK Diaphragm:316L
- Working temperature: -40°F~+140°F (-40°C~+60°C)
- Leak rate: Helium: Internal:Bubble-tight External:≤1x10⁻⁹mbar·l/s
- Flow coefficient (Cv):1.1
- Weight(only regulator):≈1.45kg
- Body port: inlet, outlet -1/2" NPT female thread Pressure gauge port -1/4"NPT female thread





FRH Series High Pressure Piston Line Pressure Regulator Max.Inlet Pressure: 10000 psig.

Feature

- Maximum control pressure: 10000 psig
- Piston sensing design with greater outlet pressure adjustment range

Technical Data

Maximum control pressure: Stainlless Steel :10000 psig Brass:6000 psig

Material of the internal components:

Seat: PEEK Piston: 316 Filter: 316L

■ Working temperature:-15°F~+165°F (-26°C~+74°C)

Leak rate: Internal: Bubble-tight External: Bubble-tight

Flow coefficient (Cv):0.05,0.2

Weight:≈ 2.0 kg

Body ports: inlet, outlet and pressure gauge ports -1/4"NPT female thread

Ordering Number Description



















SS - FR1 - 3 - 50 - FN4 - B - B - FN4 - W

Α	Body Material
SS=	316 SS
HC=AlloyC-276	

В	Series
FR1S	S
FR2	
FR3	
FR4	
FRH	

U	Inlet Pressure Range
3=3	000 psig
36=3	3600 psig
6=6	000 psig
10=	10000 psig

	D	Outlet Pressure Range
2	25=	0-25PSI
5	50=	0-50PSI
1	100:	=0-100PSI
2	250:	=0-250PSI
	500	=0-500PSI
7	750:	=0-750PSI
1	1500)=0-1500PSI
2	2500)=30-2500PSI
2	1000)=50-4000PSI
6	5000)=60-6000PSI
1	1000	00=200-10000PSI

ш	Inlet Size		
FN4	=1/4NPT Female NPT		
FN8	FN8=1/2NPT Female NPT		
F4=	1/4" inch double ferrule fitting		
F8=	1/2" inch double ferrule fitting		

F	Inlet pressure gauge port		
B=Leave port with pressure gauge 0=No watch, no mouth K=No gauge, no gauge port PST=Leave the mouth open with			
		la pl	ua

Outlet pressure gauge port Specify in the same way as the P1

I	Outlet Size
FN4	=1/4NPT Female NPT
FN8	=1/2NPT Female NPT
F4=	1/4" inch double ferrule fitting
F8=	1/2" inch double ferrule fitting

=	Way to install	
Default=No special requirements		
Y=Panel mounting		
U=Bottom with bolt mounting		
U=Bottom with bolt mounting		

J	Circulation mode
Defa	ault=Right in, left out
FI=Left in, right out	

	Cleaning and Packaging	
Default = Standard cleaning and		
pack	packaging for general industrial	
use		
W=	degreasing and oxygen-rich	

W1=Normally open actuator

cleaning

Non-standard products or customized product models are indicated separately by our technician for the model.

EMICONDUCTOR & SPECIALTY GAS APPLICATIONS PRESSURE BACK PRESSURE REGULATOR

BPY Series Diaphragm Back Pressure Regulator Maximum control pressure: 250 psig

Feature

- Excellent sensitivity and set point pressure stability
- Inner small volume
- Special cleaning and packaging processes for oxygen-rich environments

Technical Data

- Maximum control pressure:500 psig
- Material of the main components: Seat: PCTFE,PTFE,PEEK Diaphragm: 316L
- Working temperature:-40°F~+140°F (-40°C~+60°C)
- Leak rate(Helium): Internal: Bubble-tight External:≤1x10⁻⁹ mbar·l/s
- Flow coefficient (Cv): 0.06,0.2
- Weight:≈0.86kg
- Body ports: inlet, outlet and pressure gauge ports 1/4" Female NPT



BPM Series Piston Back Pressure Regulator Maximum control pressure: 1000 psig

Feature

- Excellent sensitivity and set point pressure stability
- Inner small volume
- Special cleaning and packaging processes for oxygen-rich environments

Technical Data

- Maximum control pressure:500 psig
- Material of the main components: Seat: PCTFE,PTFE,PEEK Diaphragm: 316L
- Work Tmeperature:-40°F~+140°F (-40°C~+60°C)
- Leak rate: (Helium): Internal: Bubble-tight External:≤1x10⁻⁹ mbar·l/s
- Flow coefficient (Cv):1.1
- Body ports: inlet, outlet and pressure gauge ports 1/4" and 1/2" Female NPT



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