# JSRLFLP Series

**New Option!**
**EPDM seat for low lockup and tight shutoff on no flow or dead-head blanketing applications**

## Pressure Reducing Valves for Low Flow and Low Pressure Biopharmaceutical and Parenteral process Gas

JSRLFLP is a high purity low flow, regulator designed and built specifically for very low pressure hygienic, ASME BPE gas applications.

The JSRLFLP has been designed specifically for very low pressure clean gas regulation in Stainless and Single Use Disposable applications. Whether it's precise regulation for sparging, blanketing, motive force, or SUD bag inflation, the JSRLFLP was built for the job!

The durable valve body and metal trim components are machined from ASTMA479 316L SST barstock and finished to ASME BPE SF5, 20Ra micro-inch, (0.5 Ra micrometer) electropolished as standard.

The valve is outfitted with a sensitive PTFE Jorlon diaphragm and Teflon, PEEK and EPDM seats and seals that are all FDA approved, USP Class VI compliant materials. These materials of construction enable JSRLFLP to withstand the rigors of an autoclave if required.

### Features

- Stable outlet pressure setpoints at very low pressure
- Very low set point offset (droop) especially at higher inlet pressures
- Top entry design facilitates in-line cleaning and maintenance
- Barstock construction guarantees material integrity and quality surface finish
- Four Cv's from 0.01 to 0.2 guarantee a valve that will fit your specific application
- Optimized internal volume
- Proprietary Jorlon diaphragm material provides exceptionally long life
- Soft seat material for ANSI Class VI shutoff

### Documentation

The following documentation is shipped at no charge:

- Steriflow Unicert, a QC signed Certificate of Compliance for:
  - Material, listing heat numbers with attached MTR's
  - Surface Finish
  - FDA/USP Class VI - for all thermoplastic and elastomers
- Traceability:
  - Each individual product serial number is traceable to the Unicert serial number, heat numbers and attached MTR's

Other documents must be requested at time of RFQ, or order:

- ADI/TSE Free, Certified Test reports, Certificate of Origin.

### Applications

The JSRLFLP is a Pressure Regulating valve ideal for low flow, low pressure precision regulation of clean compressed air and gas used in pharmaceutical and biopharmaceutical R&D, Pilot, and Production facilities.

It is designed specifically for use on traditional Stainless Steel and Single Use Disposable applications including:

- Small sterile vessels:
  - Gas overlay (blanketing)
  - Sparging
  - SUD bag integrity testing/inflation
- Incubators
- Lyophilizers
- Time/pres filling machine product hold vessels

Suitable for clean compressed gas, including:

- Air
- Nitrogen
- Carbon Dioxide
- Oxygen
- Argon
- Custom gas mixtures

STERIFLOW
a division of Jordan Valve

**Steriflow by Jordan Valve**
3170 Wasson Road • Cincinnati, OH 45209
513.533.5600 • 800.543.7311 • 513.871.0105 (f)
steriflow@richardsind.com • www.steriflowvalve.com

## Specifications

Sizes: 1/4" (DN8), 3/8" (DN10), 1/2" (DN15)

End Connections: ASME BPE, DIN, ISO Tri-clamp, or Tube Weld end; NPT

Gauge Ports: 1/4" FNPT is standard. Contact Factory for Tri-Clamp, VCR, or other alternatives.

Soft Seat Materials for ANSI Class VI Shut-off
- PTFE to +252°F (122°C) continuous or 275°F (135°C) intermittent [not to exceed 15 min. in a one hour period] FDA, USP Class VI
- PEEK to +350°F (177°C), FDA & USP Class VI
- EPDM to +275°F (135°C), FDA & USP Class VI

Body and Trim Material
- ASTM A479 316L SST
- Contact factory for other body/trim/seat materials

Diaphragm Material: Jorlon - PTFE™, FDA & USP Class VI

Maximum Inlet Pressure:
- Tube End & Tri-Clamp: 150 psig (10,3 bar)
- NPT: 150 psig (10,3 bar)

Optional Cleaning Specifications
- Clean for Oil-Free
- O2 Cleaning complying with ASTM G93-03 2011 and CGA G-4.1-2009

Pressure at Maximum Temperature:
- Tube End and Tri-Clamp: 150 psi @ 350°F (10,3 bar @ 177°C) with PEEK seats; 150 psi @ 150°F (10,3 bar @ 66°C) with PTFE seats; 150 psi @ 275°F (10,3 bar @ 135°C) with EPDM seats
- NPT: 150 psi @ 350°F (10,3 bar @ 177°C) with PEEK seats; 150 psi @ 150°F (10,3 bar @ 66°C) with PTFE seats; 150 psi @ 275°F (10,3 bar @ 135°C) with EPDM seats

Surface Finish:
- Wetted Internal surface finish: Mechanically polished, and electropolished to ASME BPE SF5, 20 Ra µin (0.5 Ra µm) as standard
- Exterior surface finish: Mechanically polished to 40 Ra µin (1.0 Ra µm) as standard
- Other finishes available upon request

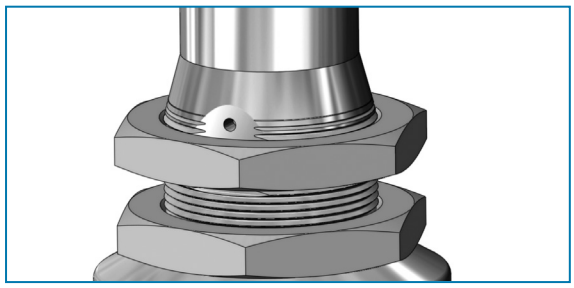
Maximum Pressure Drop:
- Tube End and Tri-Clamp: 150 psi (10,3 bar)
- NPT: 150 psi (10,3 bar)

Spring Ranges: 1 – 75 psi (0,07 – 5,2 bar), 25 - 100 psi (1,7 - 6,9 bar)

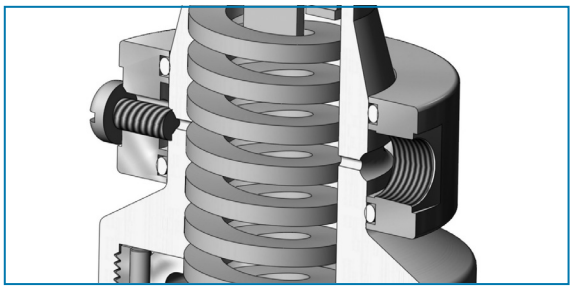
Flow Capacities: Cv 0.012, Cv 0.03, Cv 0.08, Cv 0.20 (Kv 0,010, Kv 0,026, Kv 0,069, Kv 0,173)

Options
- Oxygen cleaning and certification
- Panel Mounting
- Captured Vent
- Self Relieving
- Gauge Ports, Pressure Gauges

## Options



**Panel Mount Option**



**Captured Vent Option (1/8" NPT)**

## Option Definition

Captured Vent

The captured vent design is for maximum safety for the user when handling toxic or hazardous media. It features a 1/8" FNPT port located on the spring housing. The user can easily tube this vent to a safe location. This option can be incorporated into a self-relieving regulator that provides an additional port to permit the safe expulsion of hazardous media.

Panel Mount

The panel mount feature requires a panel cut out of 1-1/2", complete with a threaded spring housing, and a panel mount ring to secure the regulator.

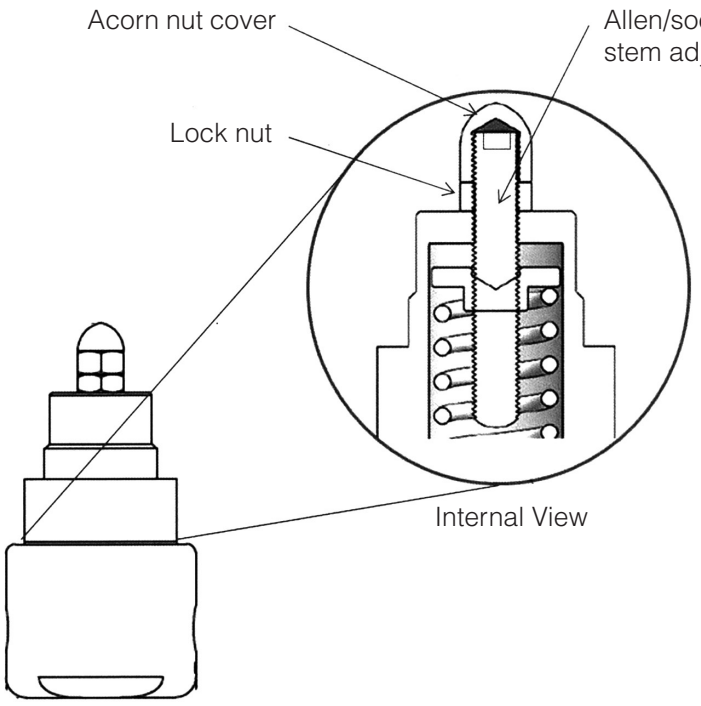
*Self Relieving

The self relieving option is used for internal venting of downstream pressure. From a practical standpoint, it allows for immediate reduction in pressure setpoints and automatically alleviates regulator lock up.

Gauge Ports - Pressure Gauge

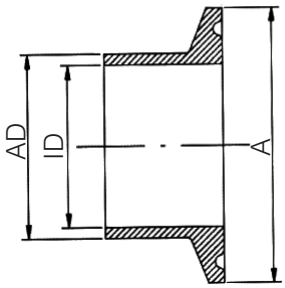
For inlet and outlet pressure gauges (and the gauges) are available as standard options

## Anti-Tamper Option




1. Adjust stem position with Allen wrench
2. Tighten lock nut against bonnet while holding stem position
3. Replace and tighten acorn nut

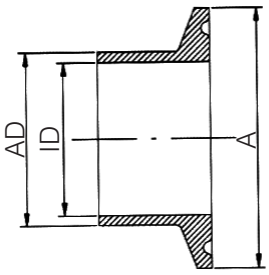
## DIN & ISO Tri-Clamp Dimensions




DIN 32676 Row B (ISO 1127)

| VALVE SIZE | A | AD | ID |
|---|---|---|---|
| DN15 | 50.5 | 21.3 | 18.1 |
| DN15* | 34.0 | 21.3 | 18.1 |
| DN20 | 50.5 | 26.9 | 22.9 |

* with non-standard Tri-clamp face



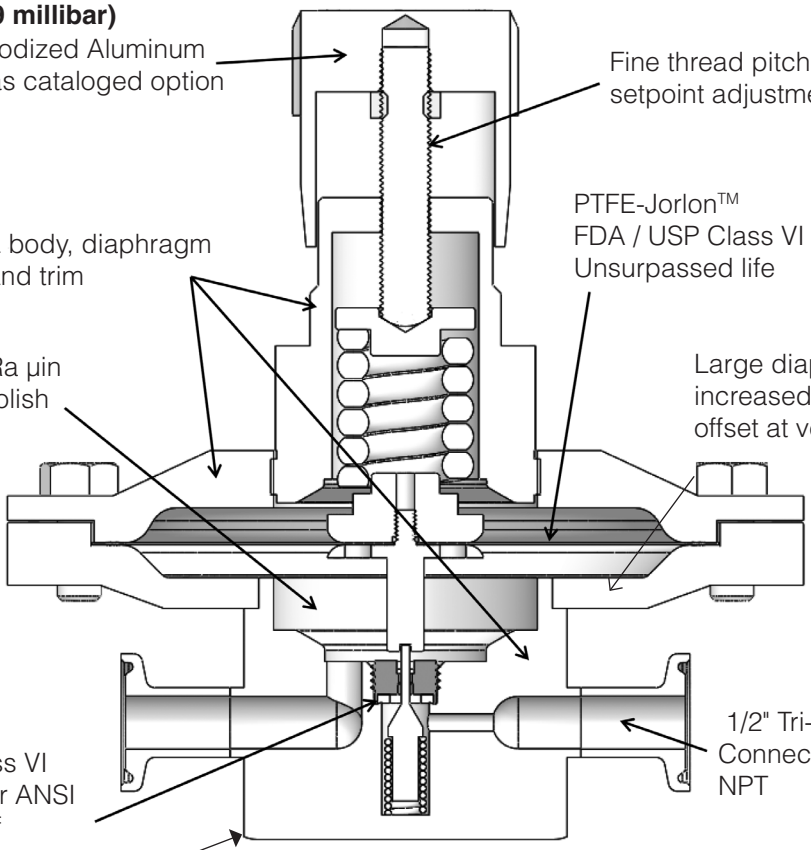

DIN 32676 Row A (DIN 11850)

| VALVE SIZE | A | AD | ID |
|---|---|---|---|
| DN15 | 34.0 | 19.0 | 16.0 |
| DN15* | 50.5 | 19.0 | 16.0 |
| DN20 | 34.0 | 23.0 | 20.0 |
| DN20* | 50.5 | 23.0 | 20.0 |

* with non-standard Tri-clamp face

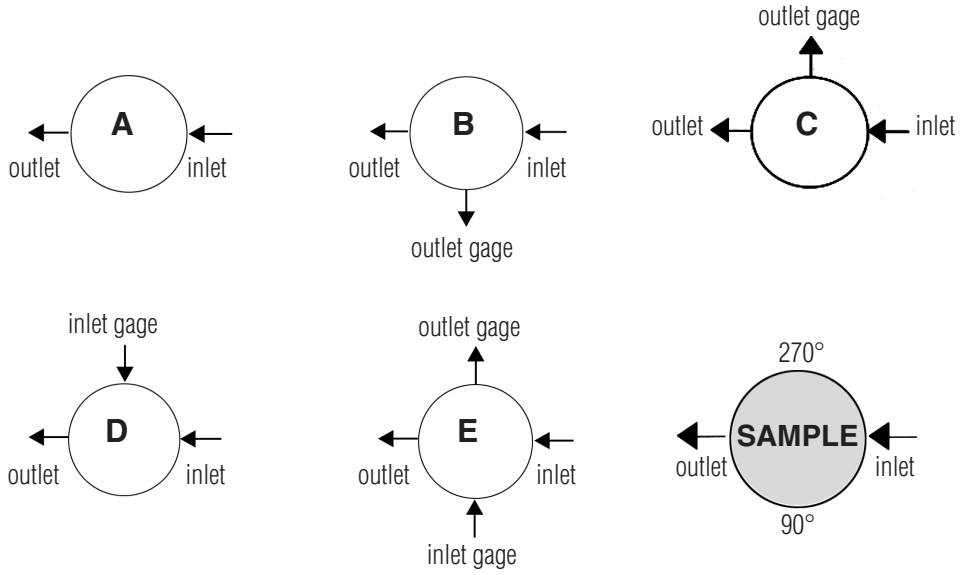
## Features & Benefits

**Reliable, gas pressure regulation at flows less than 1 LPM and set points to 1 psig (69 millibar)**



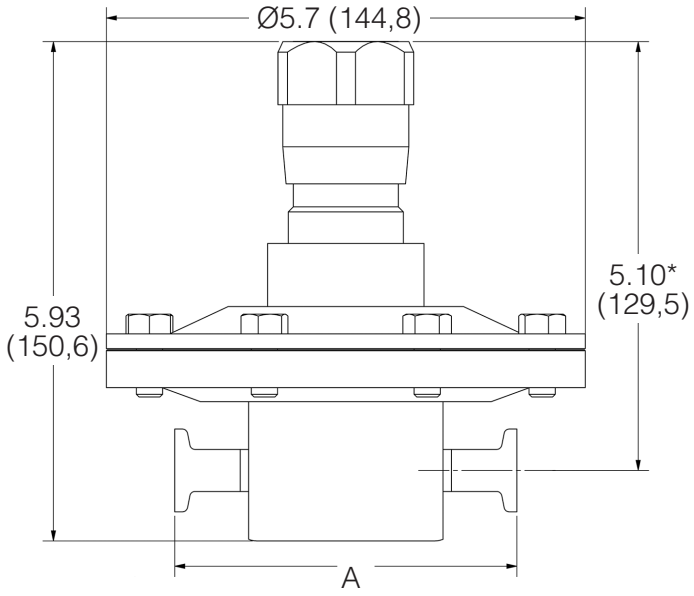

**NOTE:** Can be used on clean steam or non-cavitating liquids (the design is not drainable) with Steriflow engineering application approval.

## Flow Configurations/ Gauge Ports




* Gage ports are 1/4" FNPT as standard. Consult factory for Tri-Clamp, VCR, or other port options.

## Dimensions



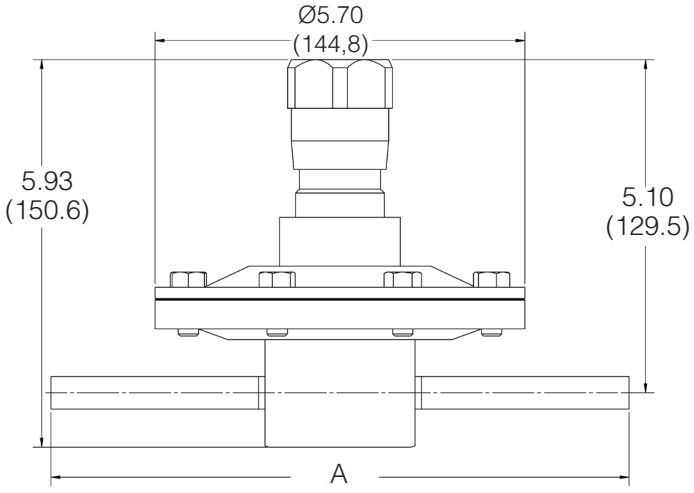

*Add 0.75" (19,1) for easy removal

- JSRLFLP Series with ASME BPE Tri-Clamp Ends, Inches (Metric)

| VALVE SIZE | A |
|---|---|
| 1/2" (DN15) | 4.07 (103,4) |
| 3/4" (DN20) | 4.07 (103,4) |

- JSRLFLP Series with ASME BPE Tube Ends, Inches (Metric)

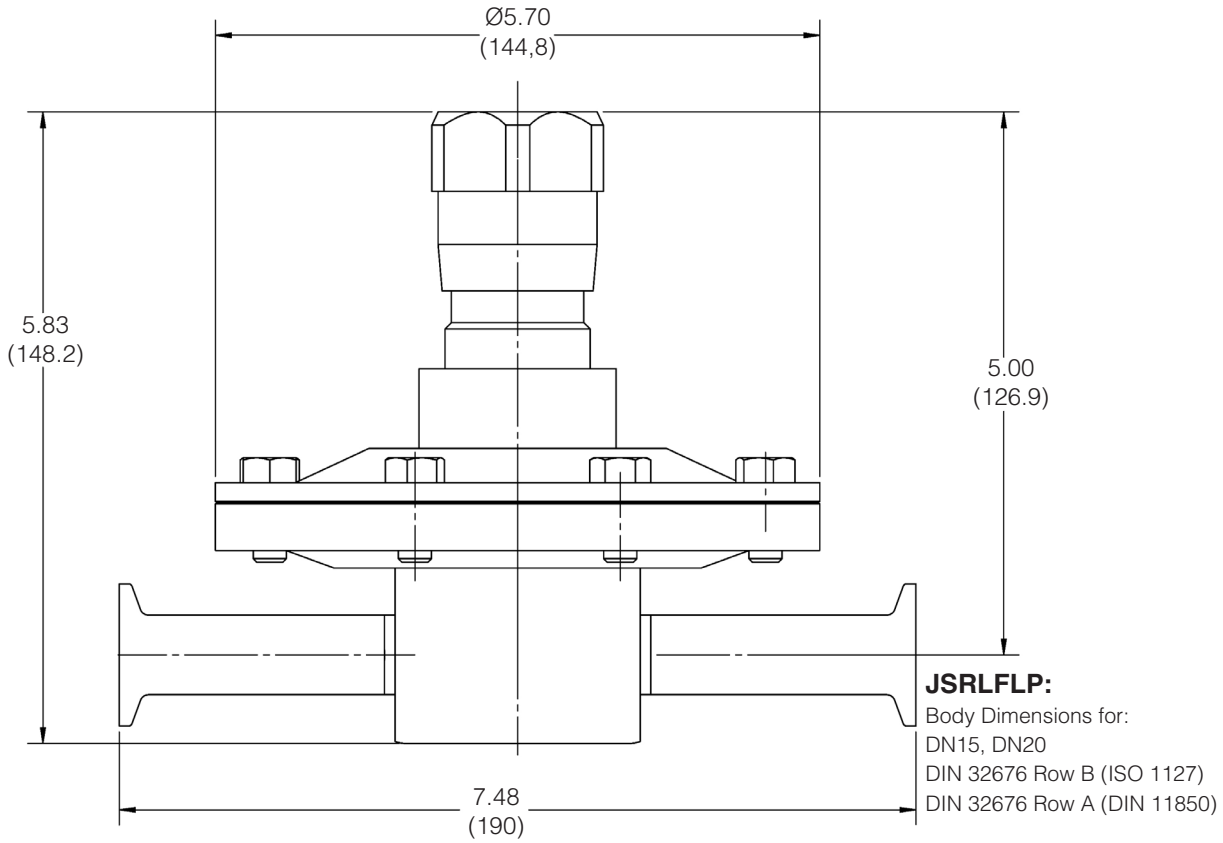
| VALVE SIZE | A |
|---|---|
| 1/2" (DN15) | 8.85 (224,8) |
| 3/4" (DN20) | 8.85 (224,8) |




- JSRLFLP Series with FNPT/SW Ends, Inches (Metric)

| VALVE SIZE | A |
|---|---|
| 1/4" (DN8) | 2.00 (50,8) |
| 3/8" (DN10) | 2.00 (50,8) |
| 1/2" (DN15) | 2.75 (69,9) |

## Dimensions, IN (MM)- DN15,20 for DIN 32676 Row B (ISO 1127) and DIN 32676 Row A (ISO 11850)




## Cv Trim Selection Instructions

To select a valve with the proper Cv:

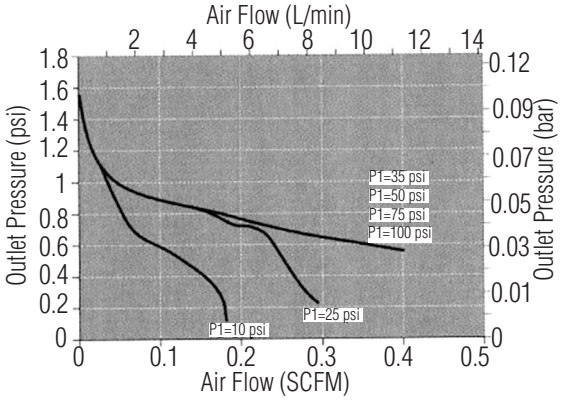
1. Select a graph on the following twelve pages that best represents your outlet pressure set point and flow range
2. Looking at that graph, select the closest inlet pressure line (horizontal sloped line, P1) that best reflects your application's actual inlet pressure. That line indicates the Pressure/Flow capabilities and offset (droop) of the trim (Flow Coefficient, Cv) under flowing conditions.
   **Note**: If your exact outlet pressure set point or inlet pressure is not listed you will have to interpolate.
   - Your particular inlet pressure line will be very similar in length and slope to the line chosen on any particular graph.
   - The same is true for your outlet pressure set point, simply shift the line up or down.
3. The Cv is listed in bold at the upper left of the page of your chosen graph. You will need that for model number selection (See page 20).

## Flow Data for Cv trim selection

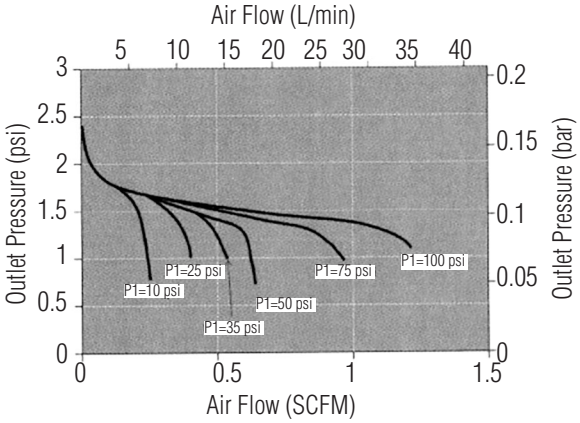
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.012
Maximum inlet pressure: 150 psig (10,3 bar)

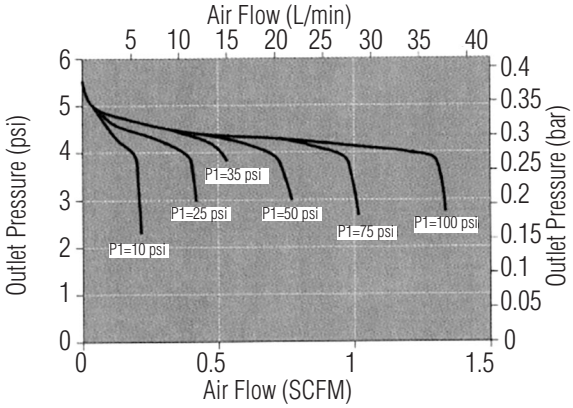
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 1 psig**



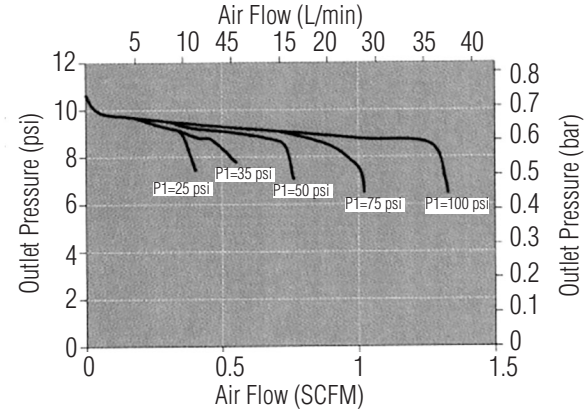

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 2 psig**



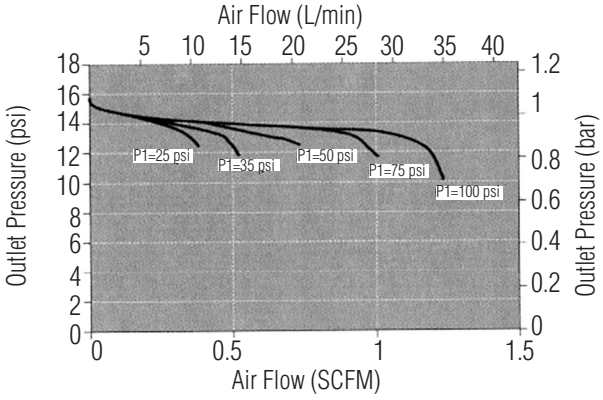

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 5 psig**



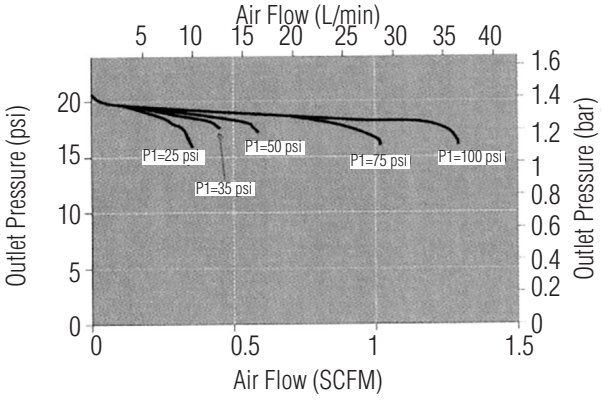

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 10 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 15 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 20 psig**

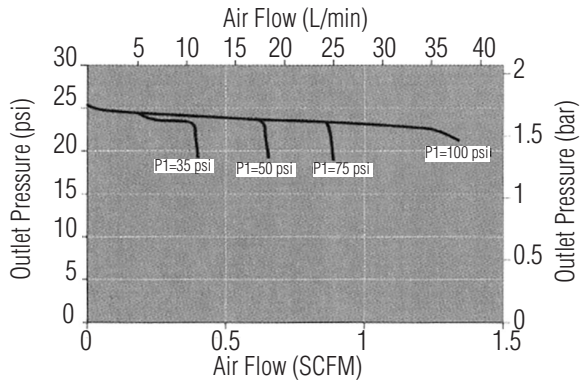


## Flow Data for Cv trim selection

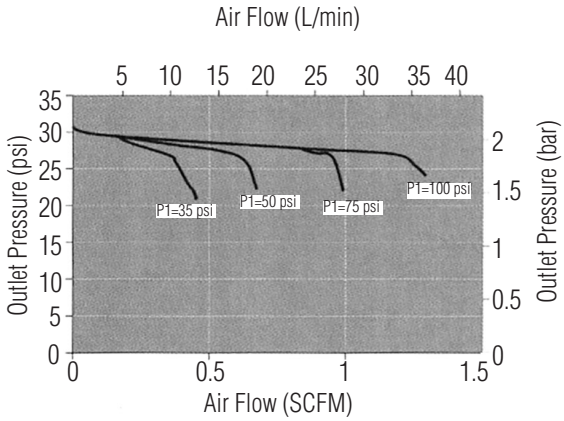
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.012
Maximum inlet pressure: 150 psig (10,3 bar)

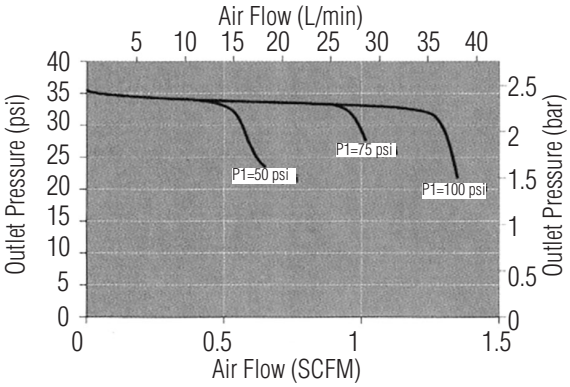
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 25 psig**



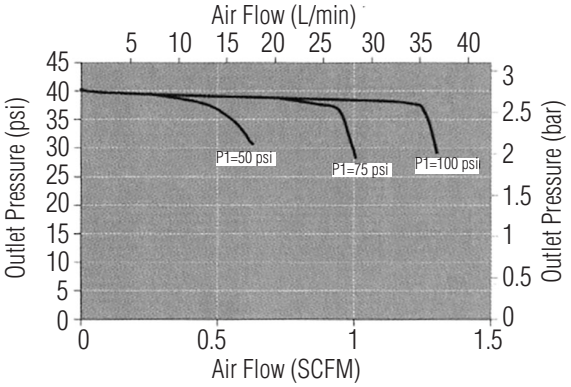

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 30 psig**



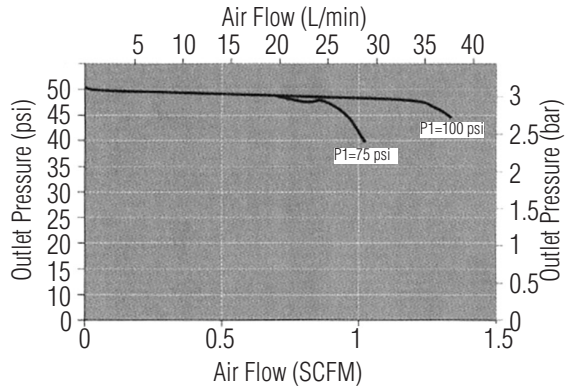

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 35 psig**



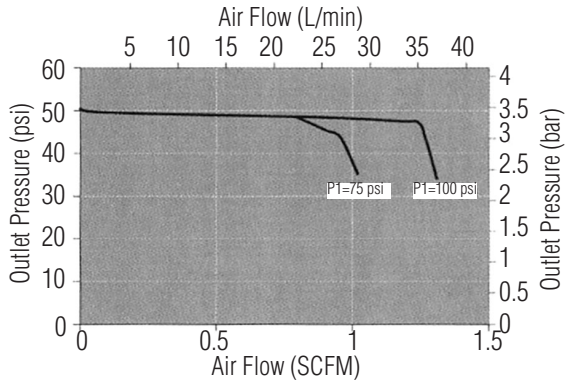

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 40 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 45 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 50 psig**

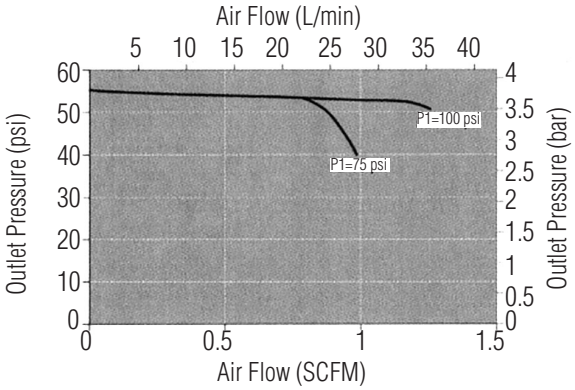


## Flow Data for Cv trim selection

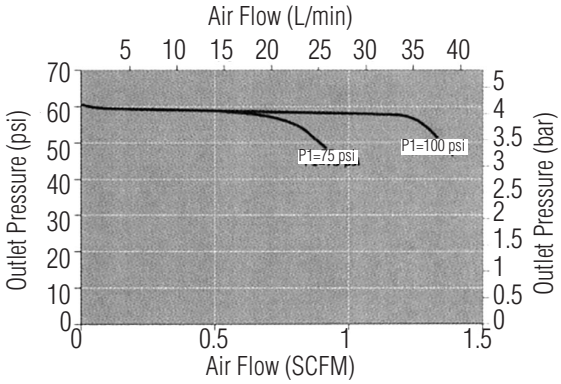
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.012
Maximum inlet pressure: 150 psig (10,3 bar)

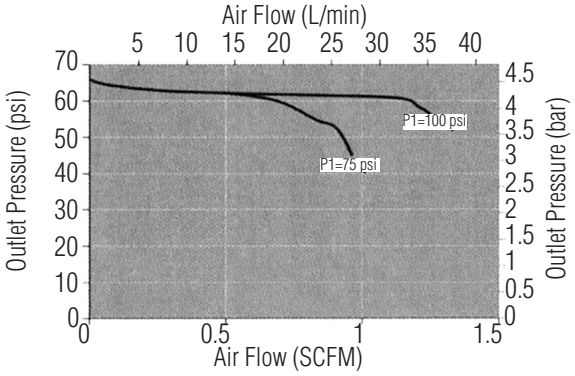
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 55 psig**



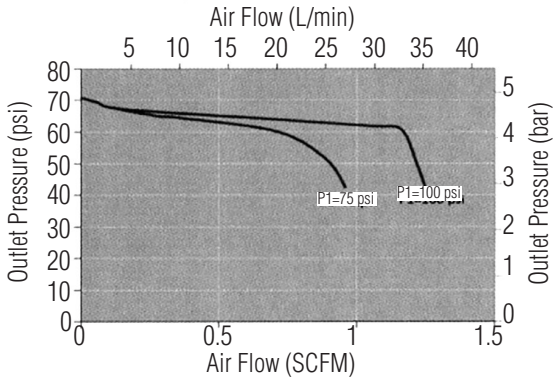

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 60 psig**



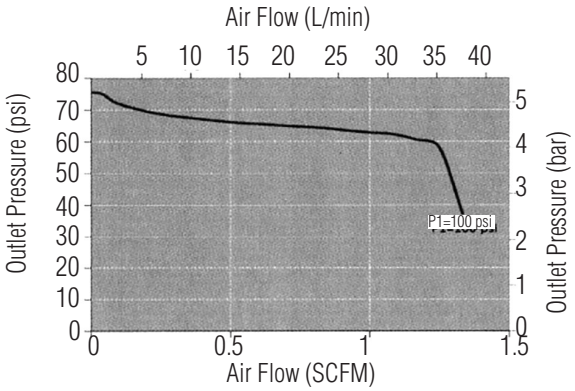

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 65 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 70 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 75 psig**



## Flow Data for Cv trim selection

The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

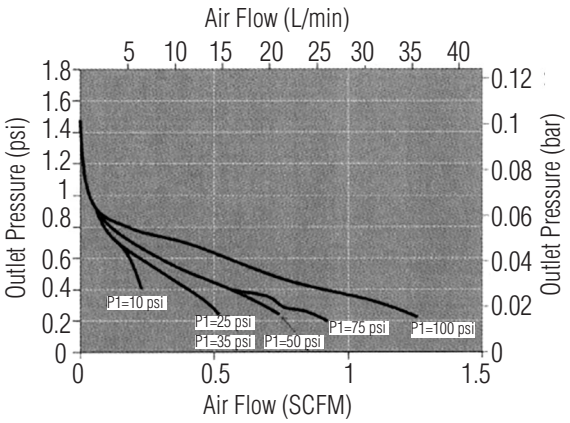
Flow Coefficient: 0.03

Maximum inlet pressure: 150 psig (10,3 bar)

**Pressure Control Range**

Range Spring: 0-75 psig (0-5,2 bar)

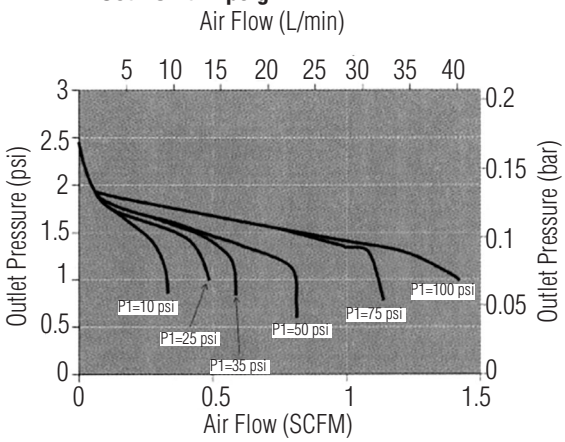
**Set Point: 1 psig**




**Pressure Control Range**

Range Spring: 0-75 psig (0-5,2 bar)

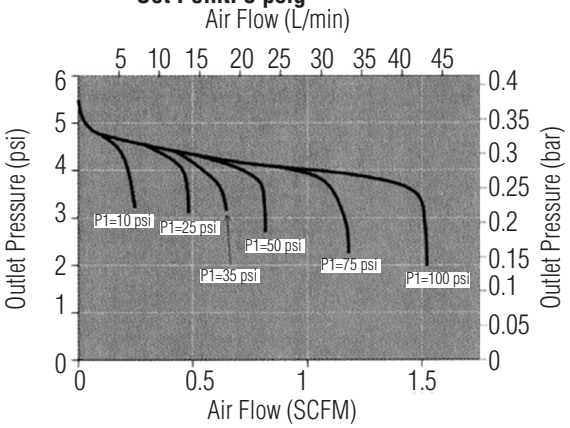
**Set Point: 2 psig**




**Pressure Control Range**

Range Spring: 0-75 psig (0-5,2 bar)

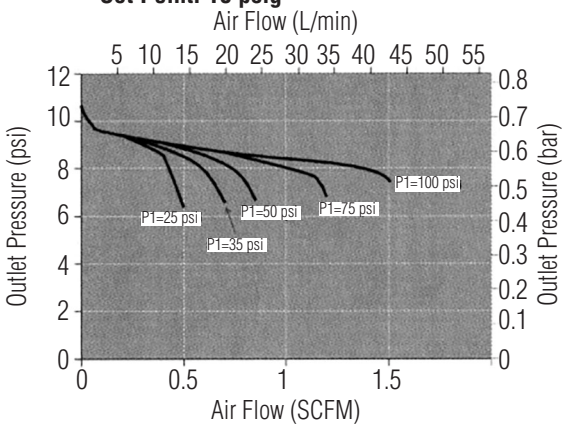
**Set Point: 5 psig**




**Pressure Control Range**

Range Spring: 0-75 psig (0-5,2 bar)

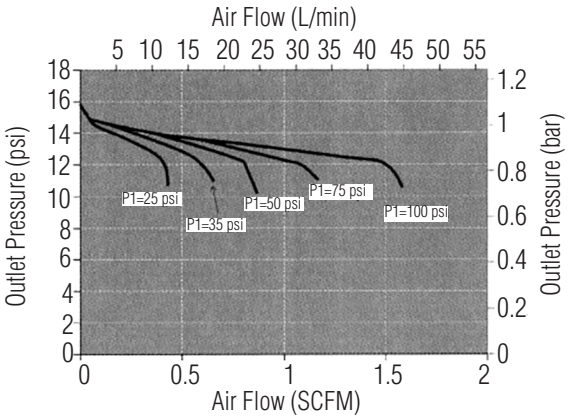
**Set Point: 10 psig**




**Pressure Control Range**

Range Spring: 0-75 psig (0-5,2 bar)

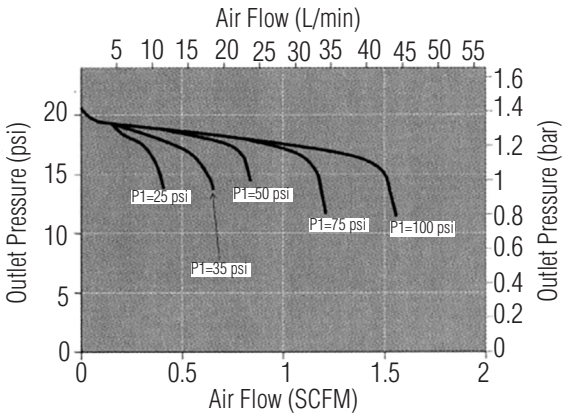
**Set Point: 15 psig**




**Pressure Control Range**

Range Spring: 0-75 psig (0-5,2 bar)

**Set Point: 20 psig**

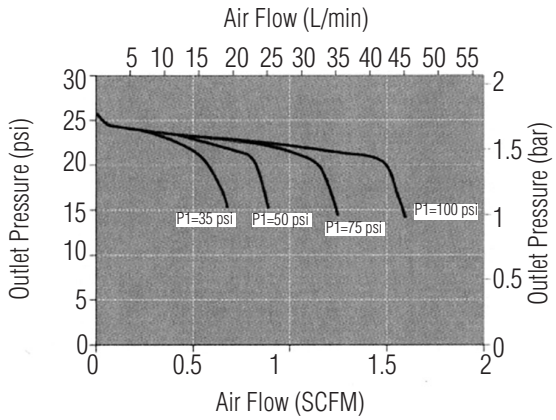


## Flow Data for Cv trim selection

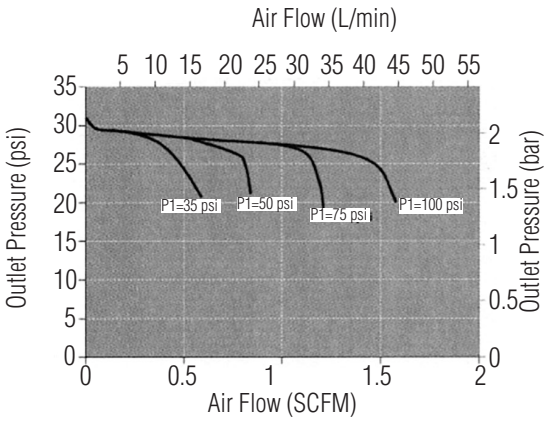
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.03
Maximum inlet pressure: 150 psig (10,3 bar)

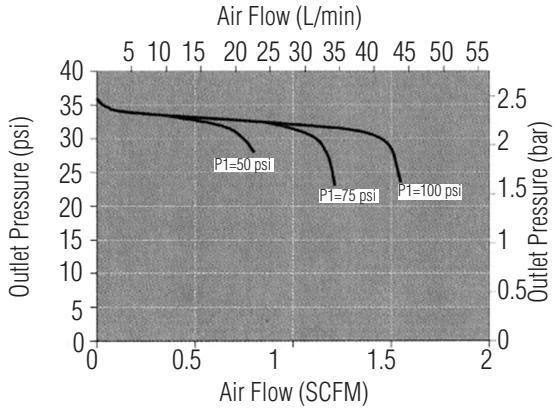
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 25 psig**



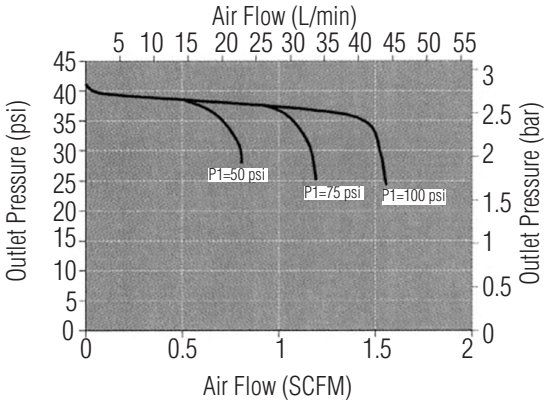

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 30 psig**



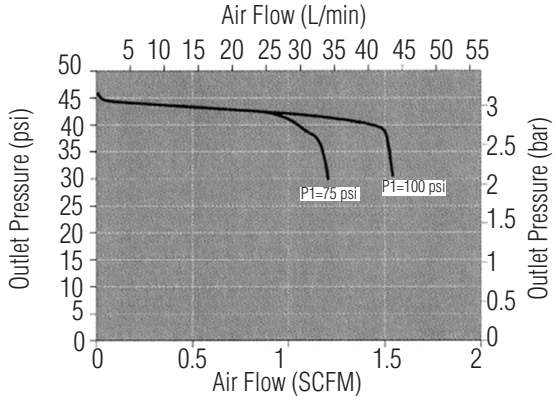

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 35 psig**



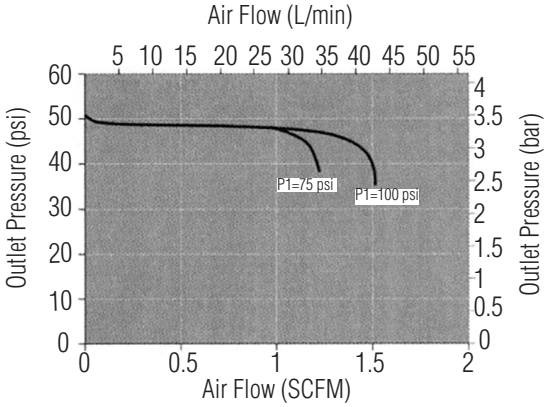

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 40 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 45 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 50 psig**

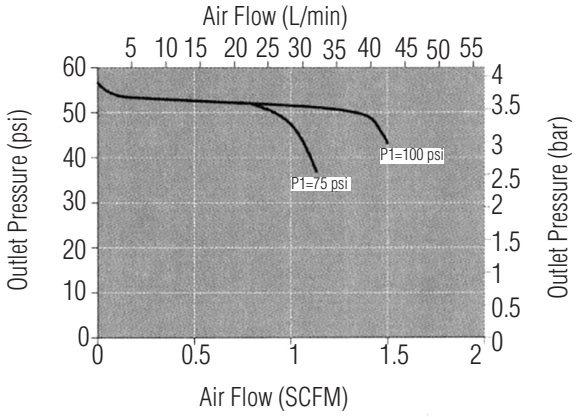


## Flow Data for Cv trim selection

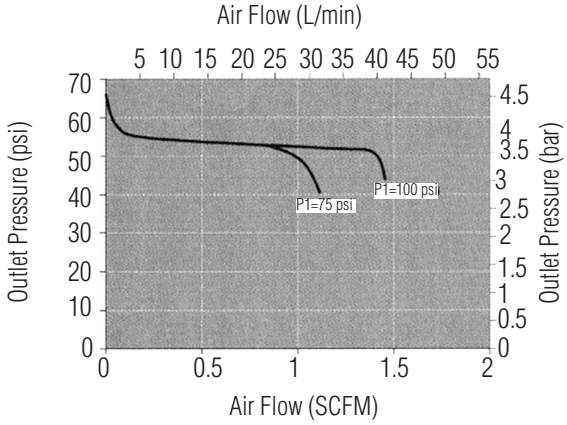
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.03
Maximum inlet pressure: 150 psig (10,3 bar)

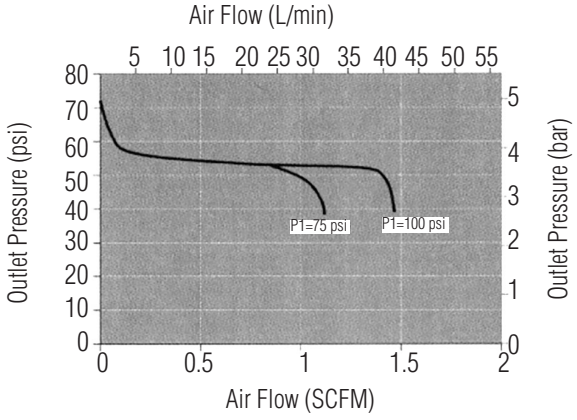
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 55 psig**



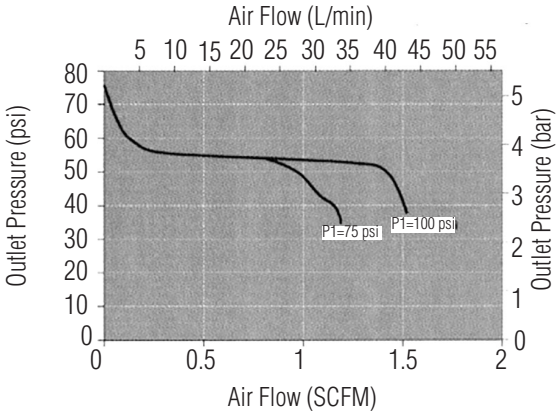

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 60 psig**



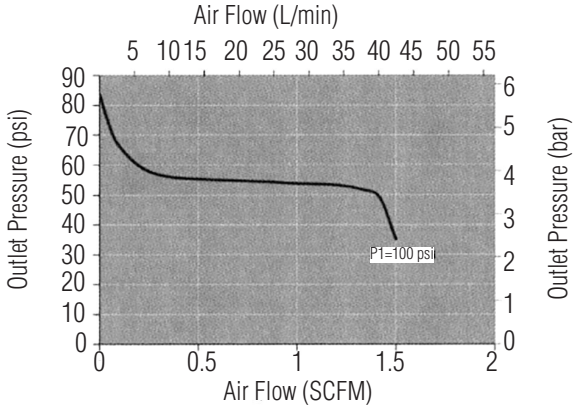

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 65 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 70 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 75 psig**

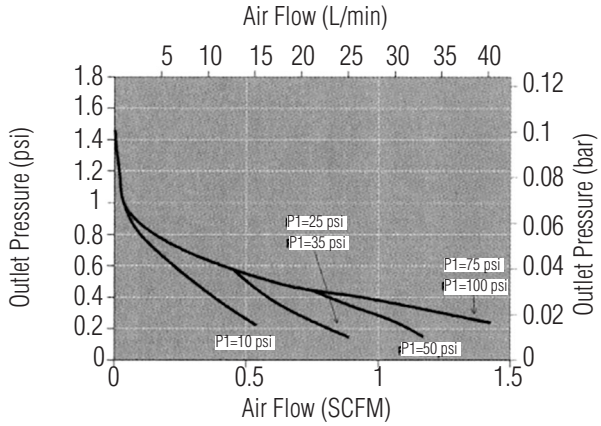


## Flow Data for Cv trim selection

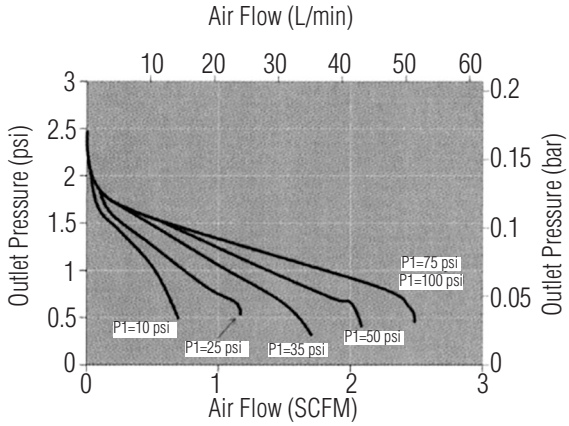
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.08
Maximum inlet pressure: 150 psig (10,3 bar)

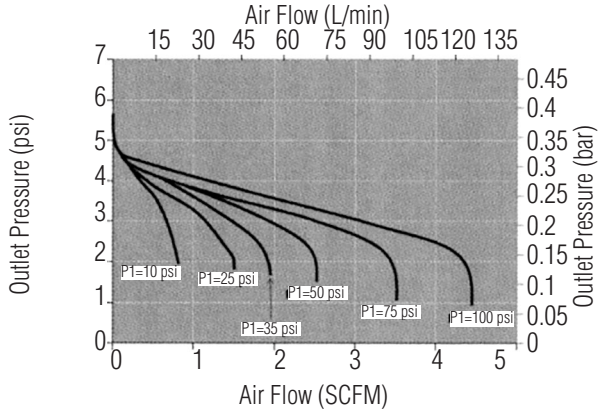
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 1 psig**



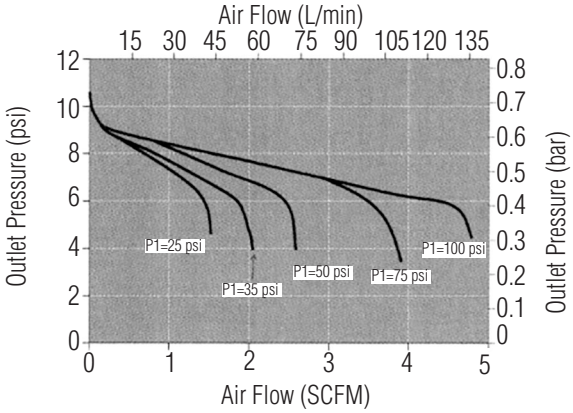

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 2 psig**



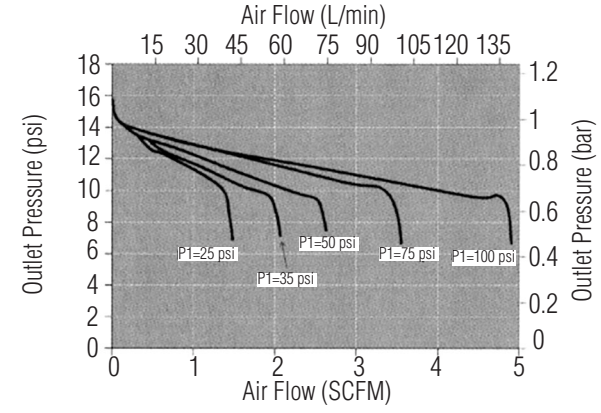

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 5 psig**



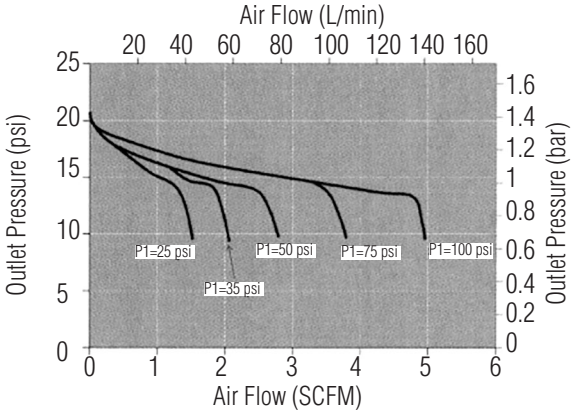

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 10 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 15 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 20 psig**

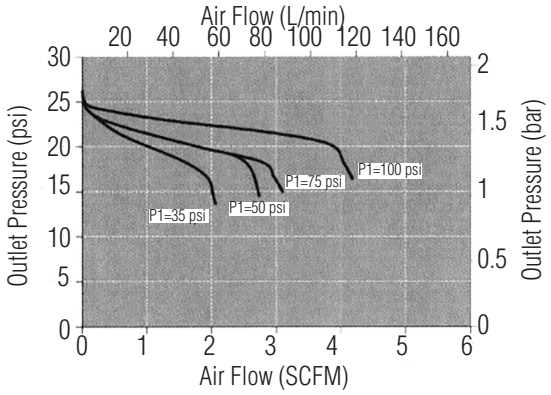


## Flow Data for Cv trim selection

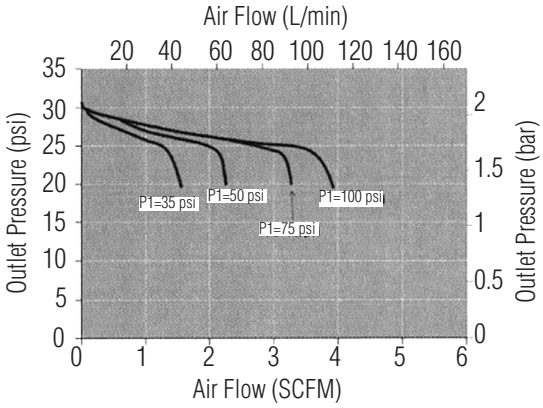
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.08
Maximum inlet pressure: 150 psig (10,3 bar)

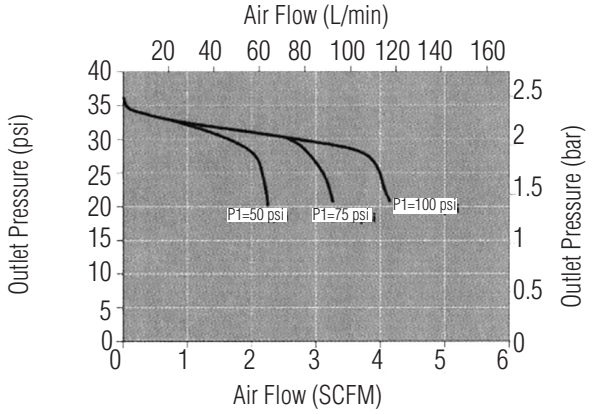
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 25 psig**



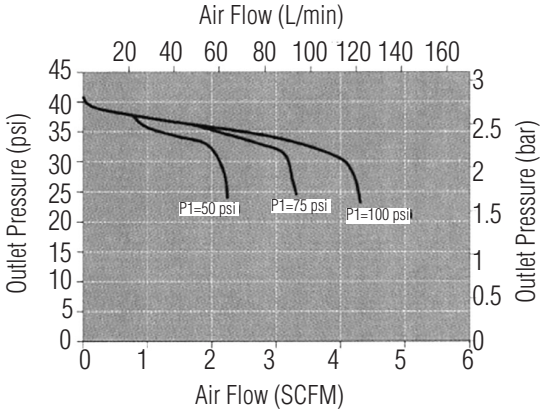

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 30 psig**



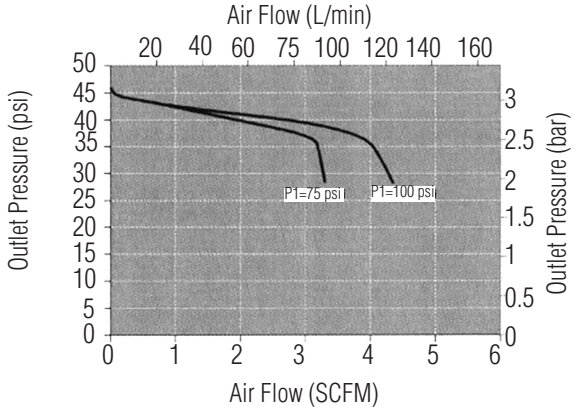

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 35 psig**



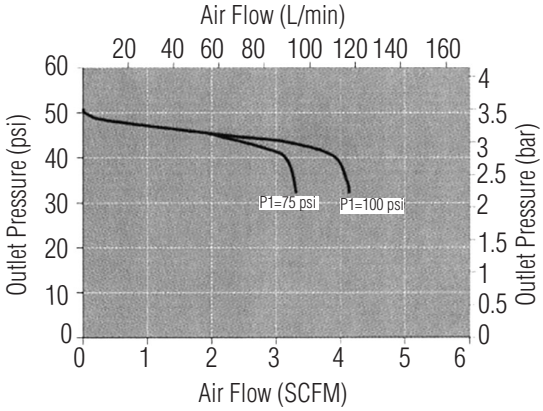

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 40 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 45 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 50 psig**

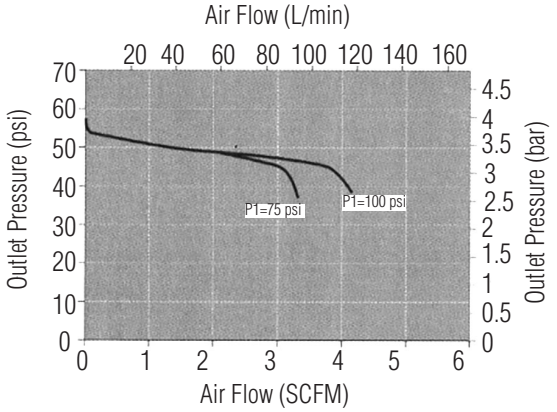


## Flow Data for Cv trim selection

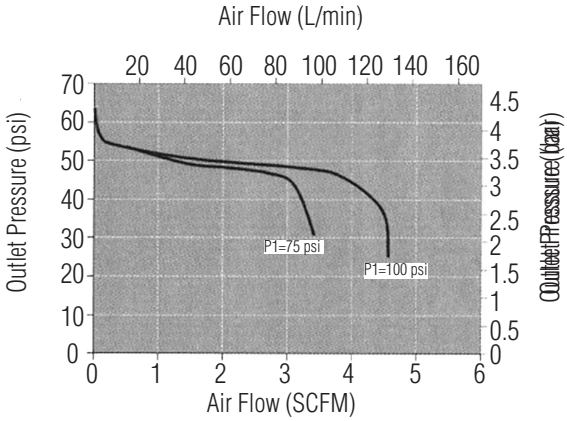
The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

Flow Coefficient: 0.08
Maximum inlet pressure: 150 psig (10,3 bar)

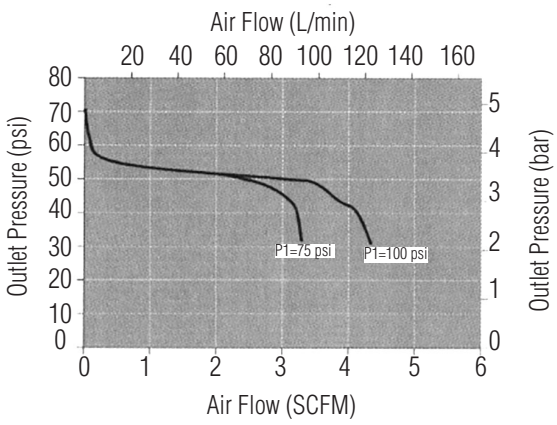
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 55 psig**



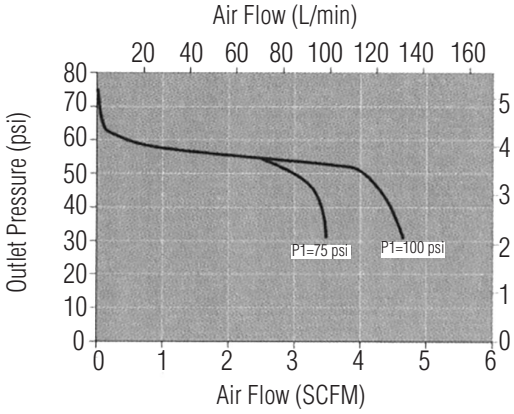

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 60 psig**



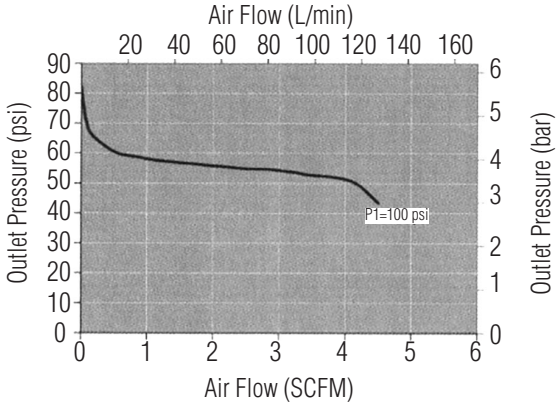

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 65 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 70 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 75 psig**



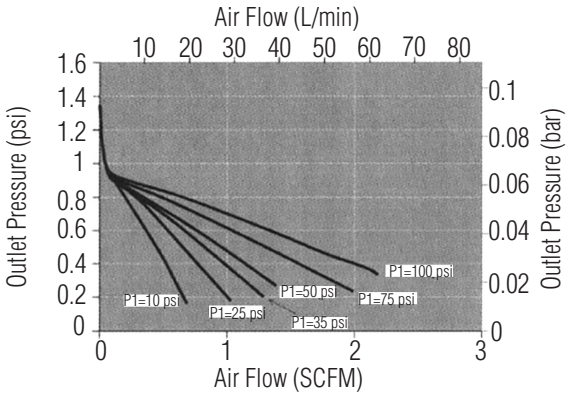
## Flow Data for Cv trim selection

The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

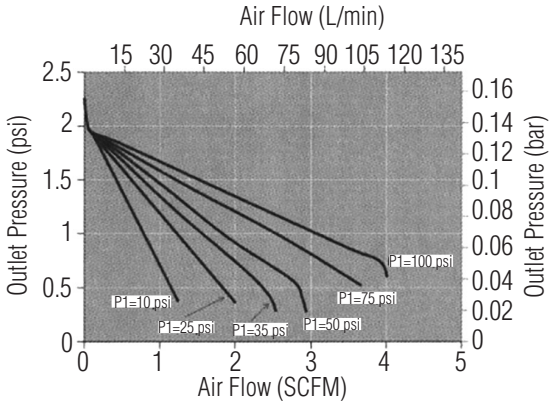
Flow Coefficient: 0.20

Maximum inlet pressure: 150 psig (10,3 bar)

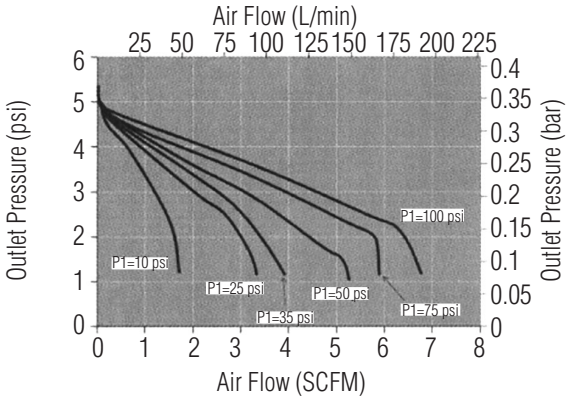
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 1 psig**



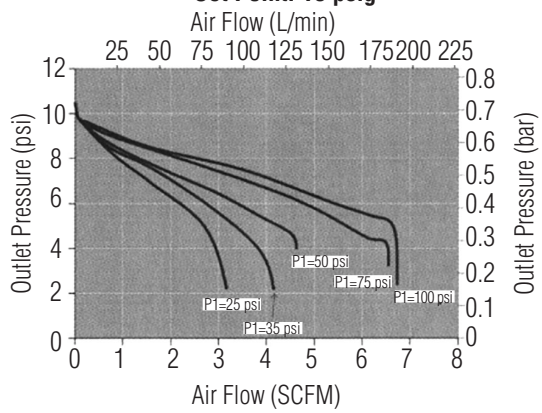

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 2 psig**



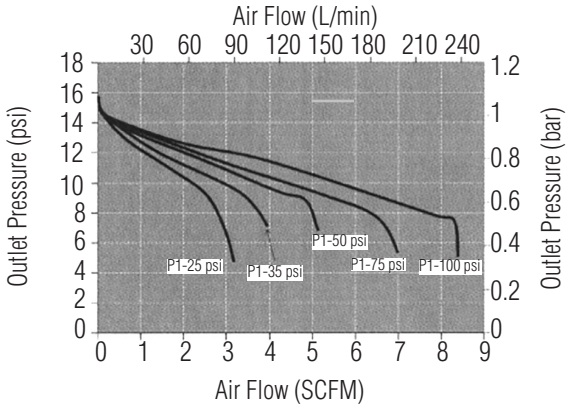

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 5 psig**



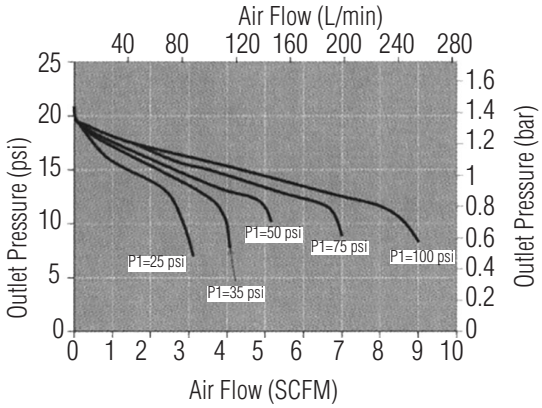

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 10 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 15 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 20 psig**



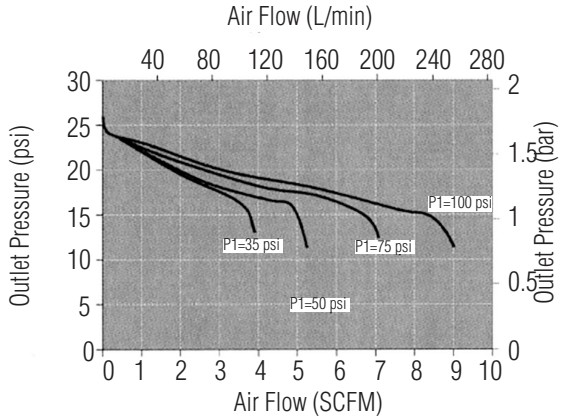
## Flow Data for Cv trim selection

The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

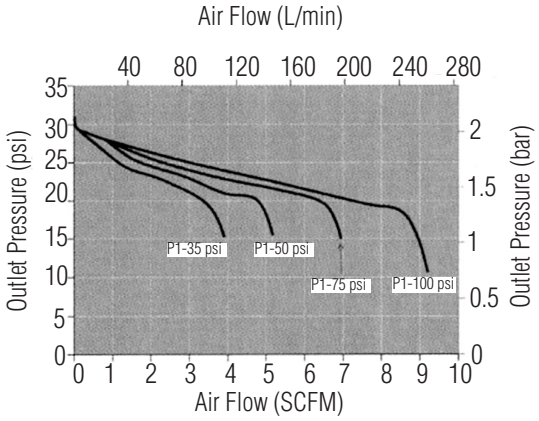
Flow Coefficient: 0.20

Maximum inlet pressure: 150 psig (10,3 bar)

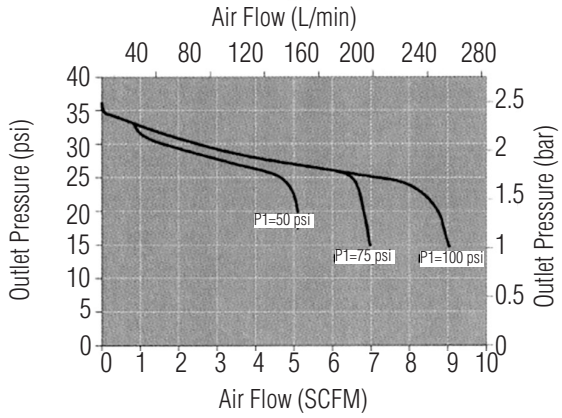
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 25 psig**



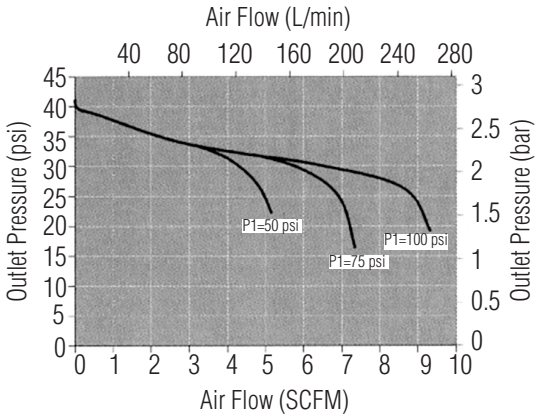

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 30 psig**



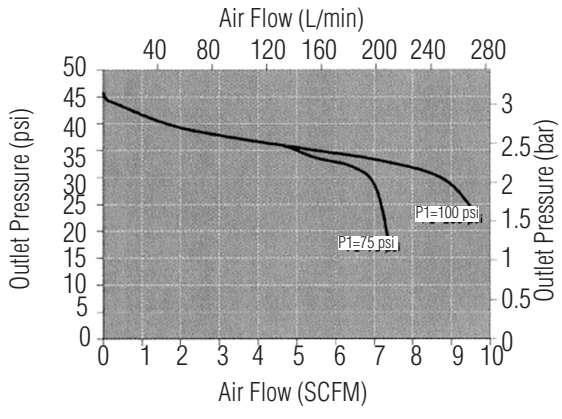

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 35 psig**



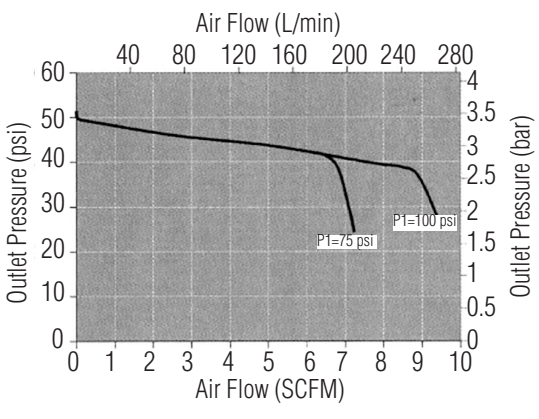

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 40 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 45 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 50 psig**



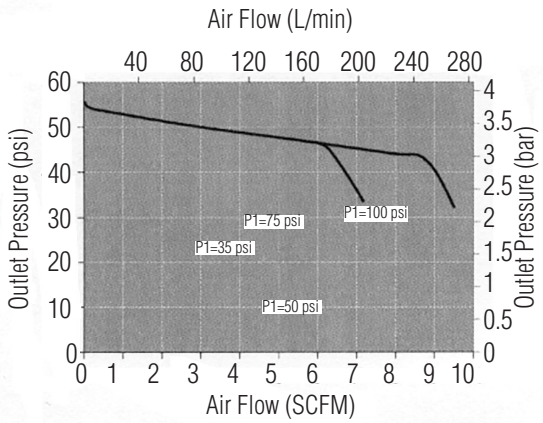
## Flow Data for Cv trim selection

The graphs illustrate the change or "droop" in outlet pressures as the flow rate increases, and the lockup (setpoint rise) as flow decreases and approaches zero.

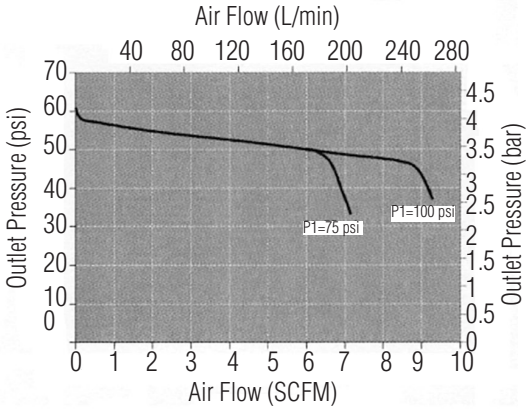
Flow Coefficient: 0.20

Maximum inlet pressure: 150 psig (10,3 bar)

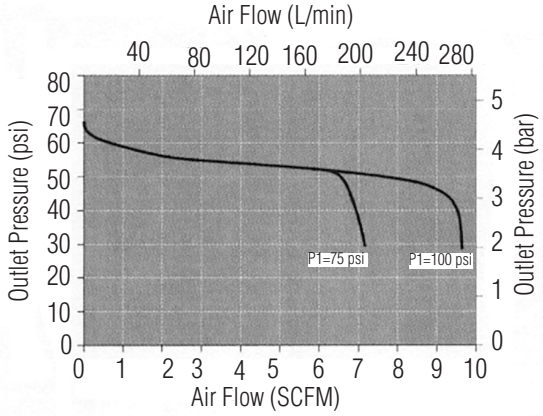
**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 55 psig**



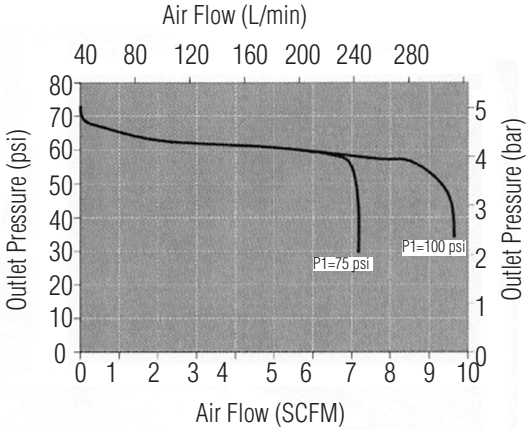

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 60 psig**



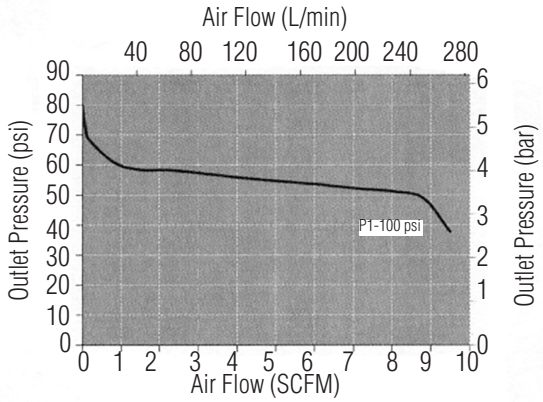

**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 65 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 70 psig**




**Pressure Control Range**
Range Spring: 0-75 psig (0-5,2 bar)
**Set Point: 75 psig**



## JSRLFLP Ordering Schematic (see pg 19 for JSRLFLPE (EPDM Seat) Ordering Schematic)

| Model | | Size | | Material | / | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | — | | — | | | | | | | | | | | | |

| Model | |
|---|---|
| JSRLFLP | Low Flow Low Pressure Reducing Valve |

| Size | |
|---|---|
| 025 | 1/4" (DN08) |
| 038 | 3/8" (DN10) |
| 050 | 1/2" (DN15) |

| Material | |
|---|---|
| 6L | ASTM A479, 316L |

| 1 | Body Feature<br>End Connection |
|---|---|
| ASME BPE Selections | |
| A | FNPT, 1/4" |
| B | FNPT, 3/8" |
| C | FNPT, 1/2" |
| T | ASME BPE Tri-Clamp, 1/2" |
| W | ASME BPE Tube Weld, 1/2" |
| ISO Selections | |
| H[4] | ISO Tube Weld, DN15 |
| S[1] | ISO Tri-Clamp, DN15 |
| V[1] | ISO w/ 34.0mm face T-Clamp, DN15 |
| R[1] | ISO T-Clamp, DN20 |
| DIN Selections | |
| D[2] | DIN Tri-Clamp, DN15 |
| N[2] | DIN T-Clamp, DN15 w/50.5mm face |
| U[2] | DIN T-Clamp, DN20 |
| X[2] | DIN T-Clamp, DN20 w/50.5mm face |
| M[3] | DIN Tube Weld, DN15 |
| ZZ | Non-Standard |

| 2 | Body Feature<br>Port Configuration* |
|---|---|
| A | Port "A" |
| B | Port "B" |
| C | Port "C" |
| D | Port "D" |
| E | Port "E" |

* Std. Gauge Ports are 1/4" FNPT. Contact factory for availability of others

[1] Acc. to DIN 32676 Row B (ISO 1127). See dimensions, page 3
[2] Acc. to DIN 32676 Row A. See dimensions, page 3
[3] Acc. to DIN 11866, DIN 11850 Row A
[4] Acc. to DIN 11866 Row B

| 3 & 4 | Trim |
|---|---|
| 1S | Cv 0.012 (Kv 0,010) |
| 4S* | Cv 0.03 (Kv 0,026) |
| 2S | Cv 0.08 (Kv 0,069) |
| 3S | Cv 0.2 (Kv 0,173) |
| 1R | Cv 0.012 Self-Relieving |
| 4R* | CV 0.03 Self-Relieving |
| 2R | Cv 0.08 Self-Relieving |
| 3R | Cv 0.2 Self-Relieving |
| ZZ | Non-Standard |

* Though out of sequence, "4S" and "4R" are the correct order codes for Cv 0.03

| 5 & 6 | Seat Material - FDA & USP Class VI | | |
|---|---|---|---|
| T1 | PTFE Cv 0.012 | P2 | PEEK Cv 0.08 |
| T2 | PTFE Cv 0.08 | P3 | PEEK Cv 0.2 |
| T3 | PTFE Cv 0.2 | P4 | PEEK Cv 0.03 |
| T4 | PTFE Cv 0.03 | ZZ | Non-Standard |
| P1 | PEEK Cv 0.012 | | |

| 7 & 8 | Range Spring / Outlet Pressure |
|---|---|
| E1 | 1 - 75 psi |
| E2 | 25 - 100 psi |
| ZZ | Non-Standard |

| 9 & 10 | Diaphragm Material |
|---|---|
| JL | Jorlon™ PTFE, FDA & USP Class VI |
| ZZ | Non-Standard |

| 11 & 12 | Actuator |
|---|---|
| SK | Standard Actuator |
| AK | Autoclavable Anodized Aluminum Knob available as cataloged option |
| CV | Captured Vent |
| PM | Panel Mount |
| TP | Anti-tamper feature (See illustration page 3) |
| ZZ | Non-Standard |

| 13 & 14 | Inlet Gauge |
|---|---|
| AA | 0 - 30 psi / bar (Dual) |
| BB | 0 - 60 psig / bar (Dual) |
| CC | 0 - 100 psig / bar (Dual) |
| DD | 0 - 160 psig / bar (Dual) |
| NN | None |
| ZZ | Non-Standard |

| 15 | Outlet Gauge |
|---|---|
| A | 0 - 30 psig/bar (Dual) |
| B | 0 - 60 psig / bar (Dual) |
| C | 0 - 100 psig / bar (Dual) |
| N | None |
| Z | Non-Standard |

| 16 | SEP Compliance |
|---|---|
| G | SEP Compliant |
| Ø | None |
| Z | Non-Standard |

| 17 | Accessories |
|---|---|
| S | Clean For Oil Free |
| X | Clean For Oxygen |
| J | Clean for Oxygen, Assemble Dry*[1] |
| A | EN10204 3.1 Cert for Wetted Parts |
| Ø | None |
| Z | Non-Standard |

*Procedure complies with ASTM G-93 2011 and CGA G-4.1-2009

[1]Use of Oxygen safe lubricant (Krytox™ for example) can affect gas line particulate testing. Assembling all wetted components dry (without lubricant) removes that effect, however it may increase the difficulty in disassembly/reassembly of valve seat components during valve maintenance. Note that we will use O2 safe lubricant on non-wetted threaded components.

## JSRLFLPE (EDPM Seat) Ordering Schematic

| Model | | Size | | Material | / | 1 & 2 | 3 & 4 | 5 & 6 | 7 & 8 | 9 & 10 | 11 & 12 | 13 & 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | — | | — | | | | | | | | | | | | |

| Model | |
|---|---|
| JSRLFLPE | Low Flow Low Pressure Reducing Valve (EDPM Seat) |

| Size | |
|---|---|
| 025 | 1/4" (DN08) |
| 038 | 3/8" (DN10) |
| 050 | 1/2" (DN15) |

| Material | |
|---|---|
| 6L | Stainless Steel 316L |

| 1 | Body Feature<br>End Connection |
|---|---|
| ASME BPE Selections | |
| A | FNPT, 1/4" |
| B | FNPT, 3/8" |
| C | FNPT, 1/2" |
| T | ASME BPE Tri-Clamp, 1/2" |
| W | ASME BPE Tube Weld, 1/2" |
| ISO Selections | |
| H[4] | ISO Tube Weld, DN15 |
| S[1] | ISO Tri-Clamp, DN15 |
| V[1] | ISO w/ 34.0mm face T-Clamp, DN15 |
| R[1] | ISO T-Clamp, DN20 |
| DIN Selections | |
| D[2] | DIN Tri-Clamp, DN15 |
| N[2] | DIN T-Clamp, DN15 w/50.5mm face |
| U[2] | DIN T-Clamp, DN20 |
| X[2] | DIN T-Clamp, DN20 w/50.5mm face |
| M[3] | DIN Tube Weld, DN15 |
| ZZ | Non-Standard |

| 2 | Body Feature<br>Port Configuration* |
|---|---|
| A | Port "A" |
| B | Port "B" |
| C | Port "C" |
| D | Port "D" |
| E | Port "E" |

* Std. Gauge Ports are 1/4" FNPT. Contact factory for availability of others

[1] Acc. to DIN 32676 Row B (ISO 1127). See dimensions, page 3
[2] Acc. to DIN 32676 Row A. See dimensions, page 3
[3] Acc. to DIN 11866, DIN 11850 Row A
[4] Acc. to DIN 11866 Row B

| 3 & 4 | Trim |
|---|---|
| 1S | Cv 0.012 |
| 2S | Cv 0.08 |
| 3S | Cv 0.2 |
| 4S | Cv 0.03 |
| 1R | Cv 0.012 Self-Relieving |
| 2R | Cv 0.08 Self-Relieving |
| 3R | Cv 0.2 Self-Relieving |
| 4R | CV 0.03 Self-Relieving |
| ZZ | Non-Standard |

| 5 & 6 | Seat Material |
|---|---|
| D1 | EPDM Cv 0.012 |
| D2 | EPDM CV 0.08 |
| D3 | EPDM C 0.20 |
| D4 | EPDM CV 0.03 |
| ZZ | Non-Standard |

| 7 & 8 | Range Spring / Outlet Pressure |
|---|---|
| E1 | 1 - 75 psi |
| E2 | 25 - 100 psi |
| ZZ | Non-Standard |

| 9 & 10 | Diaphragm Material |
|---|---|
| JL | Thin Jorlon |
| ZZ | Non-Standard |

| 11 & 12 | Actuator |
|---|---|
| | Ranges E1 thru E5 |
| SK | Standard |
| CV | Captured Vent |
| PM | Panel Mount |
| TP | Tamper Proof |
| AK | Anod. Alum. |
| ZZ | Non-Standard |

| 13 & 14 | Inlet Gauge |
|---|---|
| AA | 0 - 30 psig |
| BB | 0 - 60 psig / bar (Dual) |
| CC | 0 - 100 psig / bar (Dual) |
| DD | 0 - 160 psig / bar (Dual) |
| NN | None |
| ZZ | Non-Standard |

| 15 | Outlet Gauge |
|---|---|
| A | 0 - 30 psig |
| B | 0 - 60 psig / bar (Dual) |
| C | 0 - 100 psig / bar (Dual) |
| N | None |
| Z | Non-Standard |

| 16 | SEP Compliance |
|---|---|
| G | SEP Compliant |
| Ø | None |
| Z | Non-Standard |

| 17 | Accessories |
|---|---|
| S | Clean For Oil Free |
| X | Clean For Oxygen* |
| J | Clean for Oxygen, Assemble Dry*[1] |
| A | EN10204 3.1 Cert for Wetted Parts |
| 0 | None |
| Z | Non-Standard |

*Procedure complies with ASTM G-93 2011 and CGA G-4.1-2009

[1]Use of Oxygen safe lubricant (Krytox™ for example) can affect gas line particulate testing. Assembling all wetted components dry (without lubricant) removes that effect, however it may increase the difficulty in disassembly/reassembly of valve seat components during valve maintenance. Note that we will use O2 safe lubricant on non-wetted threaded components.