

BACKPRESSURE REGULATOR



EVOL

INSTRUMENT

EVOL BACKPRESSURE REGULATOR



Single-stage Diaphragm Backpressure Regulator

EVOL Backpressure Regulator (BPR) uses springs to gradually open up as the overpressure is used to compress the spring. With a frictionless flexible diaphragm, our backpressure regulator is able to regulate the set upstream pressure with precision.

Our BPR is created with single-stage diaphragm and 316L stainless steel construction, which is suitable in most of the chemical industries.

Thus, it is often used, but not limited to the following applications:

- 1| Separators
- 2| Treaters
- 3| Compressor stations
- 4| Gas gathering systems



EVOL Backpressure Regulator

- ✓ Provide an obstruction to flow
- ✓ Maintain the set upstream pressure

Features

Single-stage type relief structure

Maternal and diaphragm use hard seal form

Internal structure easy to purge and with filter

Can use panel or wall mounting

Body made with 316L stainless steel

Stable output

Applicable temperature range: -40 to 74 °C

Standard Materials

Parts	Materials
Body	316L stainless steel
Seat	PCTFE / PTFE
Spring	316L stainless steel / cobalt chrome nickel alloy
Stem	316L stainless steel / nickel alloy
Seat retainer	316L stainless steel / nickel alloy
Valve guide	316L stainless steel / nickel alloy

❖ Other materials are available upon request.

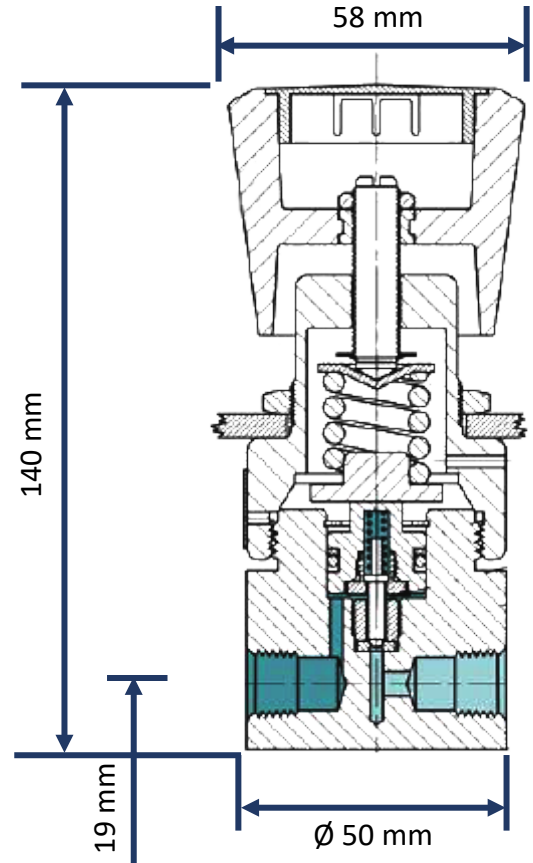
MODEL DESIGN, SPECS & DIMENSIONS



Design



Dimensions

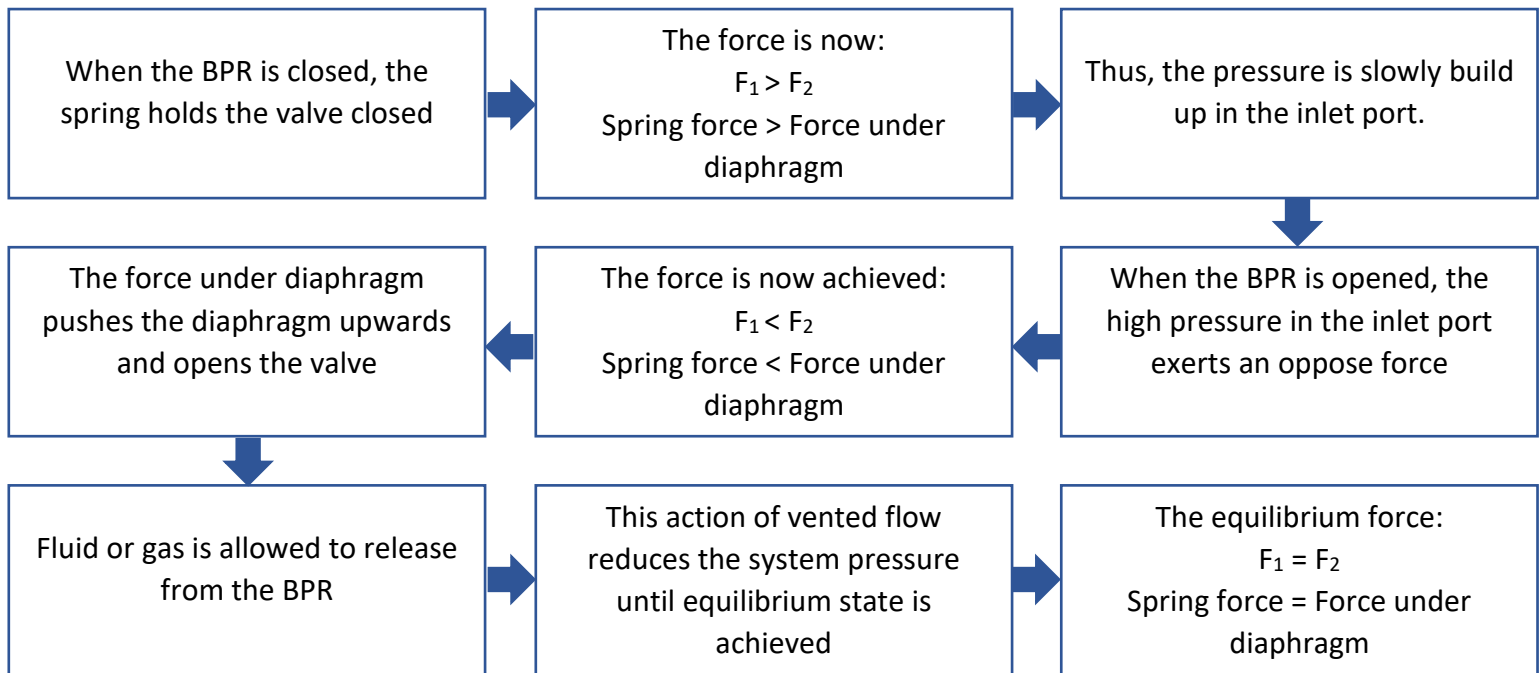
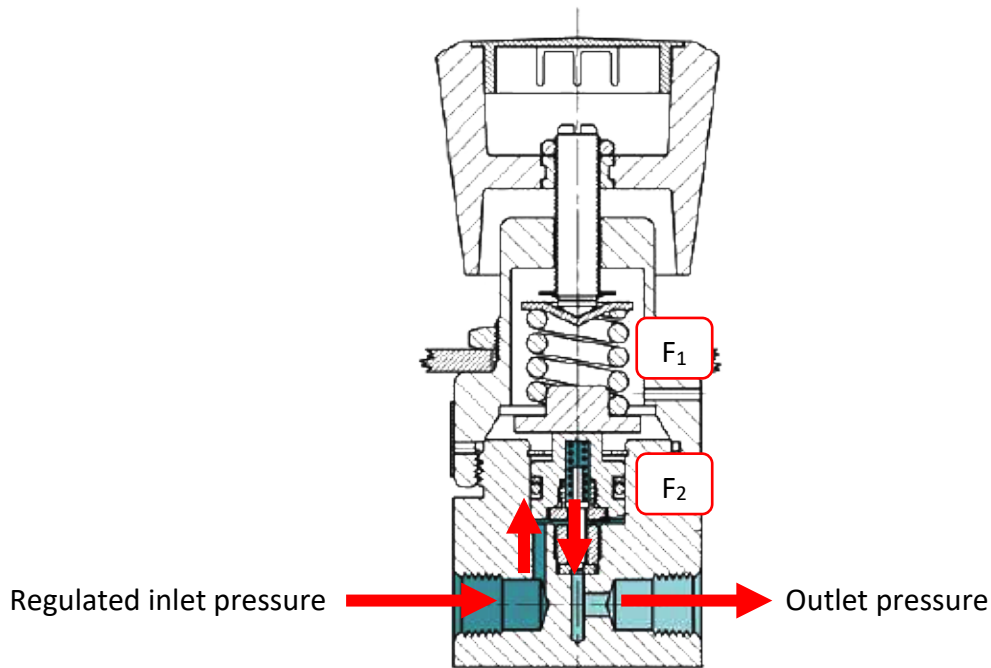


Specifications

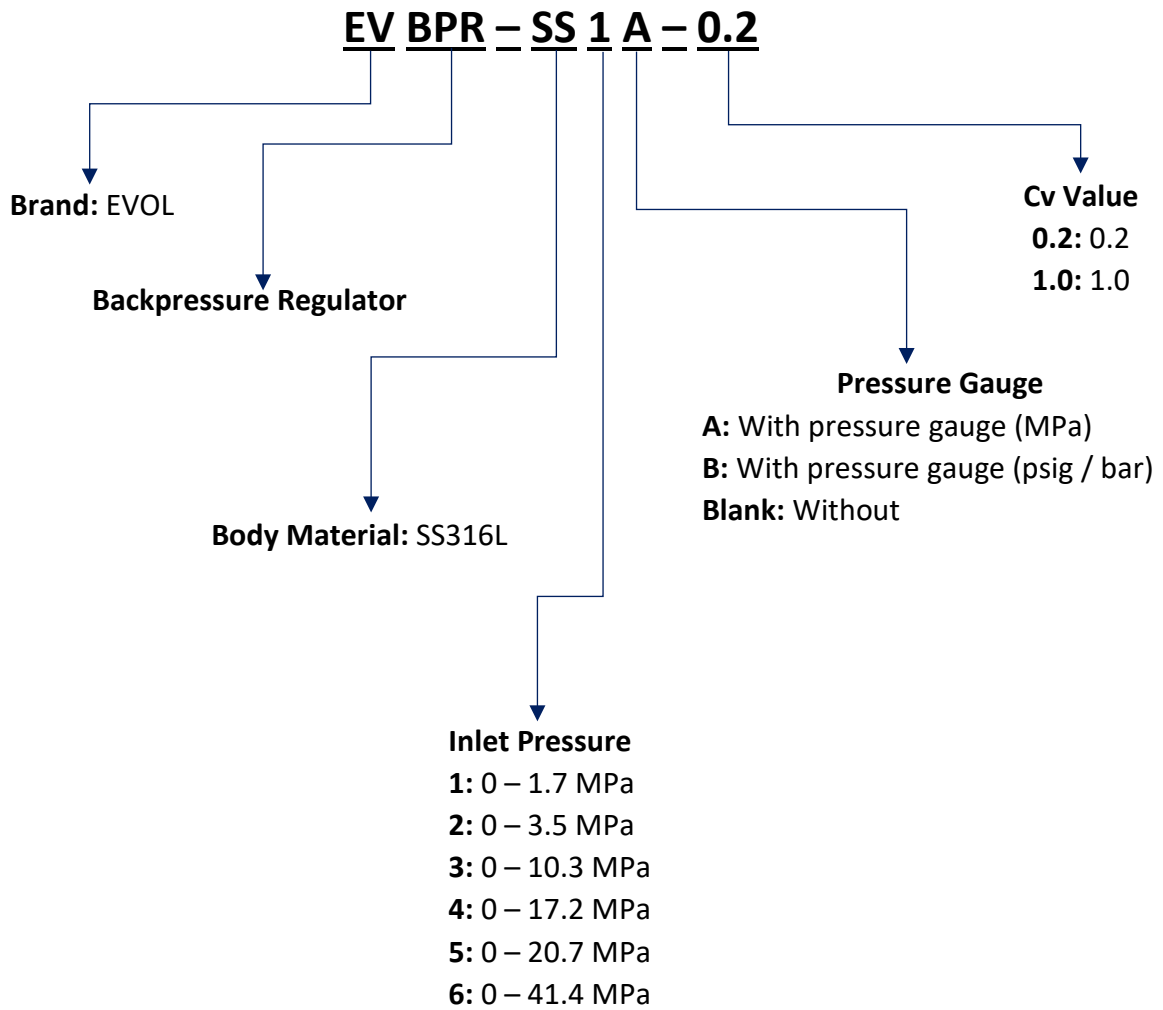
Inlet pressure	Outlet pressure	Safety test pressure	Leak rate	Pressure gauge	Cv value	Connection type	
						Inlet port	Outlet port
1.0 – 1.7 MPa	0 – 41.4 MPa	1.5 times max inlet pressure	2×10^{-8} atm cc/sec He	With gauge (MPa)	0.2	1/4" FNPT	1/4" FNPT
2.0 – 3.5 MPa				With gauge (psig / bar)		3/8" FNPT	3/8" FNPT
3.0 – 10.3 MPa				Without gauge		1/2" FNPT	1/2" FNPT
4.0 – 17.2 MPa				1/2" MNPT		1/2" MNPT	
5.0 – 20.7 MPa				3/8" fitting		3/8" fitting	
6.0 – 41.4 MPa				1/2" fitting		1/2" fitting	

❖ Inlet and outlet ports can be customized based on customer's requirement.

WORKING PRINCIPLE



MODEL NUMBER





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