

Alfa Laval Pneumatic Pressure Control Valve for Membrane Filtration Systems

Regulating valves

Introduction

The Alfa Laval Pneumatic Pressure Control Valve for Membrane Filtration Systems is a hygienic regulating valve that provides control of the pressure and flow of the retentate in cross-flow membrane filtration plants. Versatile and modular, the valve can be customized to match exact process requirements.

Application

This pneumatic pressure control valve is ideal for automatic regulation of pressure and flow of the retentate in cross-flow membrane filtration plants used in hygienic applications such as dairy, food, beverage, brewery, personal care and many other industries.

Benefits

- Hygienic regulating valve
- Straightforward, easy-to-use design
- Reliable, safe, automated operation
- Large operating area, very low to high Kv values

Standard design

The Alfa Laval Pneumatic Pressure Control Valve for Membrane Filtration Systems consists of a valve body, valve guide, valve stem and actuator. All materials comply with FDA regulations, and all product wetted parts are made of AISI 316L stainless steel. Please specify flow and pressure drop when placing your order.



TECHNICAL DATA

Operation

Max. flow rate:	20 m ³ /h
Max. working pressure:	64 bar (6.4 MPa)
Pneumatic pilot pressure:	0.02–0.08 MPa
Kv:	0.02-20
Turn down:	10

PHYSICAL DATA

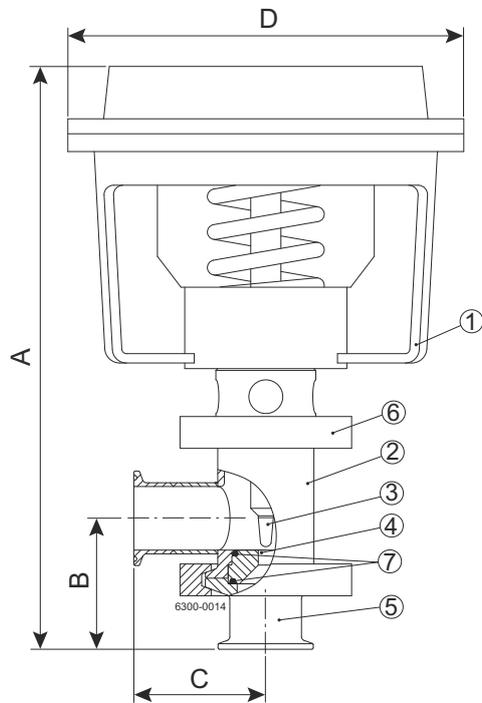
Connections

Inlet:	38 mm clamp ISO 2852 or 51 mm clamp ISO 2852
Outlet:	38 mm clamp ISO 2852
Weight:	5.2 kg

Options

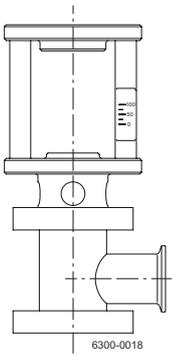
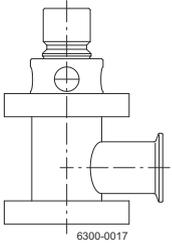
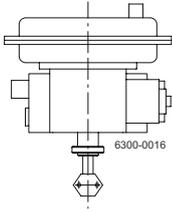
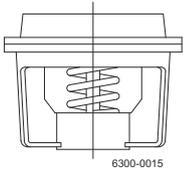
- Reverse acting actuator
- Built-in electropneumatic positioner
- Samson actuator

Dimensions (mm)



1. Actuator
2. Valve housing
3. Spindle
4. Seat
5. Bottom piece
6. 51 mm clamp assembly
7. O-ring

A	B	C	D
310	70	70	220



Actuator

8" Honeywell direct actuator

3 psi (0.21 bar) = open valve

Code no. 103278

7" Honeywell reversed actuator

3 psi (0.21 bar) = closed valve

Code no. 103277 (option)

Samson actuator*

*Please contact Alfa Laval for calculation of type of Samson actuator

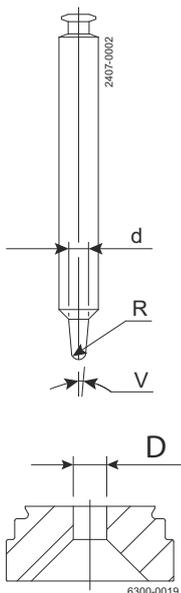
Valve housing

Regulation valve housing for Honeywell

Code no. 103270

Regulation valve housing for Samson

Code no. 526051



Spindle

Spindle for Honeywell 8"

Code no. 103271

Spindle for Honeywell 7"

Code no. 502057

Spindle for Samson

Code no. 519744

$d = \text{mm}$

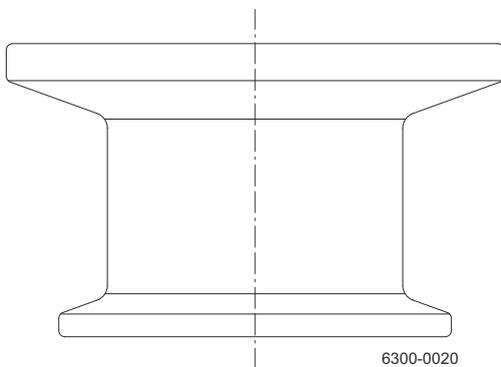
$V = ^\circ$ (angle)

$R = \text{mm}$

Seat

Code no. 103267

$D = \text{mm}$



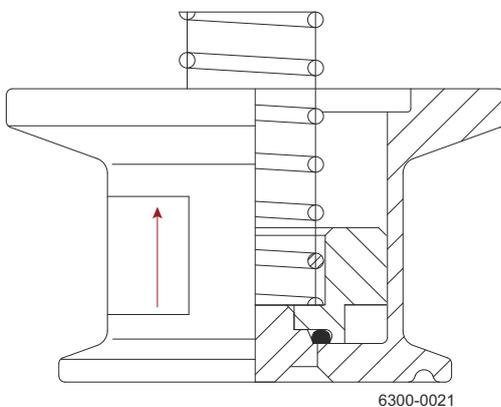
Bottom piece

38 mm

Code no. 103264

51 mm

Code no. 103265



Bottom piece with incorporated counter valve

38 mm

Code no. 103274

51 mm

Code no. 103275

Order example Pneumatically controlled valve, direct acting, with $\varnothing 51$ mm inlet.

Code numbers 103278, 103270, 103271, 103267, 103265. When ordering, please specify d , D , V and R .

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