



Alfa Laval Unique SSV Manually Regulating - RF

Single seat valves

Introduction

The Alfa Laval Unique SSV Manually Regulating - RF is a versatile, reliable single seat valve with a single contact surface between the plug and the seat to minimize the risk of contamination. Its compact, modular and hygienic design meets the highest process demands in terms of hygiene and safety. It is built on the well-proven Alfa Laval Unique SSV platform. Few moving parts ensure easy dismantling, high reliability and low maintenance costs. A wide range of optional features, including lockable handles, enables customization to specific process requirements.

Application

The Unique SSV Manually Regulating - RF is designed for straightforward fine regulating or dosing purposes in hygienic applications across the dairy, food, beverage, brewery and many other industries.

Benefits

- Straightforward, reliable design
- Cost effective and highly modular
- Exceptional valve hygiene
- Long service life
- Low total cost of ownership

Standard design

This manually regulating single seat valve consists of one valve body, plug, sealing, crank mechanism, and clamp ring. The plug can be adjusted to a fixed position with a lock screw. The valve can easily be converted to a pneumatic valve by replacing the crank mechanism with an actuator, sealing element and plug.

Using the Alfa Laval Anytime configurator, it is easy to customize to meet virtually any process requirement.

Working principle

The Alfa Laval Unique SSV Manually Regulating - RF operates manually using a crank mechanism to control pressure and flow through gradual opening and closing.



TECHNICAL DATA

Temperature	
Temperature range:	-10°C to +140°C (EPDM)

Pressure	
Max product pressure:	1000 kPa (10 bar)
Min. product pressure:	Full vacuum

ATEX	
Classification	II 2 G D*

*This equipment is outside the scope of the directive 2014/34/EU and must not carry a separate CE marking according to the directive as the equipment has no own ignition source

Valve Body Combinations



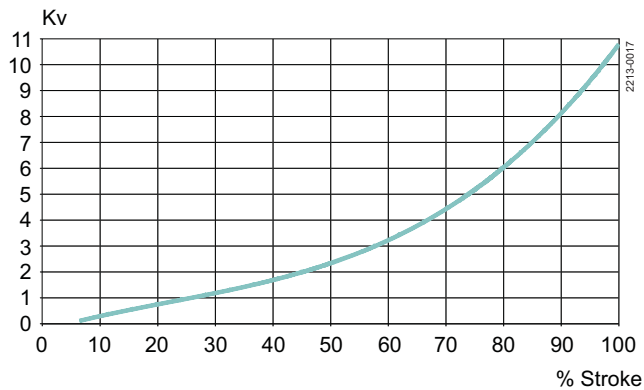
PHYSICAL DATA

Materials	
Product wetted steel parts:	1.4404 (316L)
Other steel parts:	1.4301 (304)
External surface finish:	Semi-bright (blasted)
Internal surface finish:	Bright (polished), Ra < 0.8 μm
Other product wetted seals:	EPDM

Options

A. Product wetted seals in HNBR or FPM.

Pressure drop/capacity diagrams



The flow in % of the total flow at a pressure drop of 1 bar.

Kv-Factors

Valve size	Kv
38mm	11

* optional

Kv = m³/h at a pressure drop of 1 bar.

For other pressure drops than 1 bar the flow can be calculated with the following formula:

$$Q = Kv \times \sqrt{\Delta p}$$

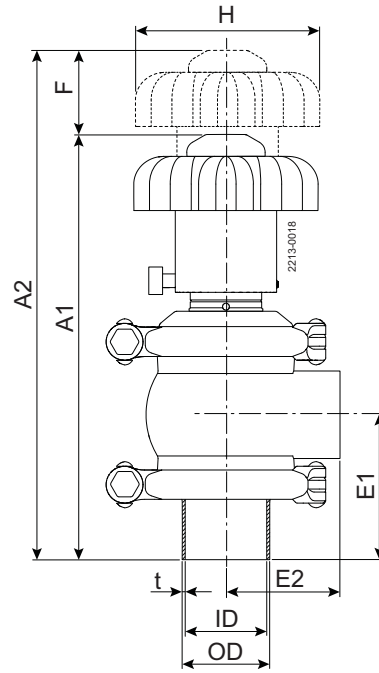
Where

Q = Flow in m³/h.

Kv = See above.

Δ p = Pressure drop in bar over the valve.

Dimensions (mm)



Unique Manually Regulating Valve

Size	38 mm
A ₁	178.8
A ₂	205.4
OD	38
ID	34.8
t	1.6
E ₁	62.9
E ₂	49.5
F ₁	26.6
H	80

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Contact details for all countries
are continually updated on our website.
Please visit www.alfalaval.com to
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