



Installation & Operating Manual



ART 622 Adjustable Pressure Relief Valve

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1. Introduction

- Albion Valves (UK) Ltd ART 622 is a brass adjustable pressure relief valve.
- The ART 622 has been classified in accordance with PED 2014/68/EU. The valve is categorised in accordance with PED 2014/68/EU as a pressure accessory and must not be used as a Safety Valve

2. Technical Data

Valve Type	Size Range	Connection Type	Temperature Rating	Pressure Rating (Max)
ART 622 PN16	DN 15 – DN 80	ISO 228/1	0°C – 150°C	16 bar

3. Valve Features

- The ART 622 adjustable pressure relief valve is CE marked in accordance with PED 2014/68/EU as risk category 1. The valve should not be used as a Safety Valve.

4. Valve Installation

- The valve should be sited to ensure ease of access.
- It is the responsibility of the installer to ensure the valve is suitable for service conditions e.g., temperature, pressure, and service media.
- Where fitted, remove flange protectors / dust caps and all other packaging material.
- Care should be taken to ensure the surface finish of the valve is protected during installation.
- The valves may be installed in horizontal or vertical pipework.
- The valve is uni-directional and should only be used for flow in the direction shown on the valve.
- Suitable gaskets / sealing material should be used during installation.
- Consideration should always be given to the area of media discharge and a suitable risk assessment should be undertaken prior to installation.
- In line with BSRIA recommendations, suitable consideration needs to be made as to how the removal of system debris can be achieved during the system flushing process.



- Adjustment Procedure ART 622
 - o Install the valve on a test bench ensuring free discharge.
 - o Install a pressure gauge with 0,6 precision before the valve.
 - o Take of the brass cap by unscrewing the two nuts.
 - o Unscrew the nut on the adjustment screw.
 - o Compress the spring to the maximum by turning the adjustment screw clockwise.
 - o Put the system under pressure, at the desired discharge pressure.
 - o Unscrew the adjustment screw counter-clockwise until the valve starts to discharge and turn back one quarter turn, subsequently block the nut on the adjustment screw.
 - o Once the desired value has been reached, repeat the test to verify.
 - o Replace the brass cap and block with the nuts but be aware not to screw the lower nut too tightly otherwise you risk to involuntary opening of the valve.
 - o Block with the second nut (for possible vibration).

5. Approvals Classification

- The valve is classified in accordance with PED 2014/68/EU as category 1 and should not be used as a Safety Valve under any circumstances.

6. Troubleshooting

- If any maintenance is to be undertaken on the valve it is the responsibility of the installer to ensure the system is adequately drained and depressurized.
- A full risk assessment should be undertaken prior to any works taking place.

7. Warranty

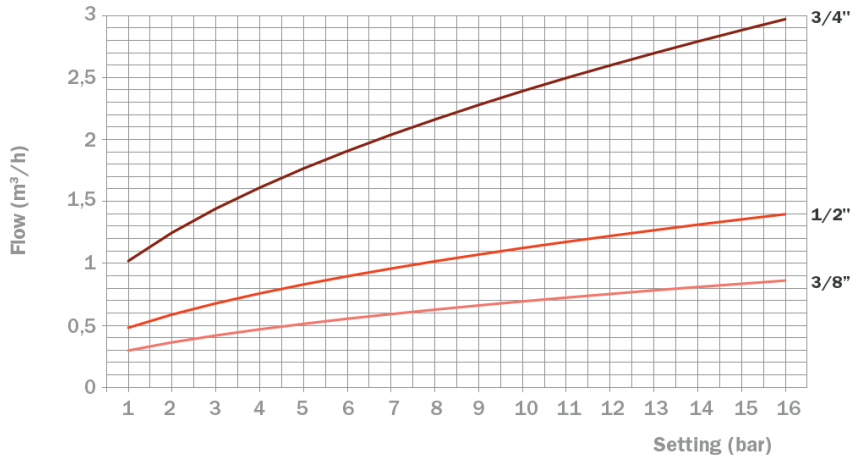
- For further details of Albion Valves (UK) Ltd warranty period, please refer to Albion Valves (UK) Ltd 'Conditions of Sale' available on our website



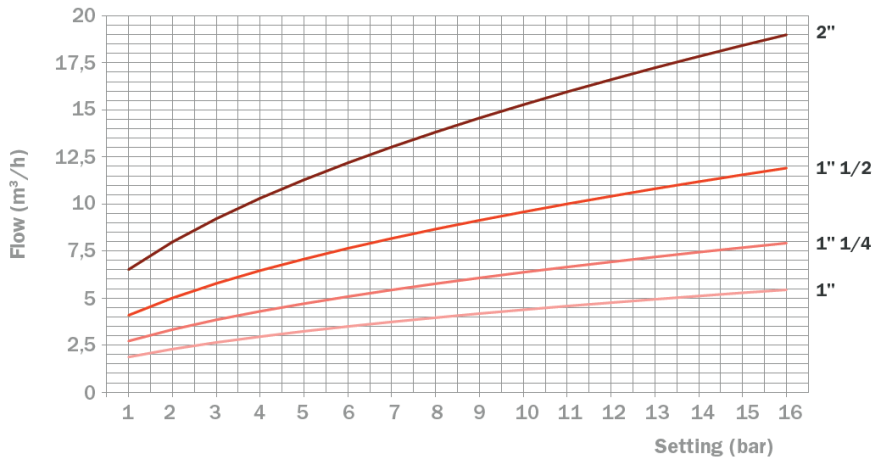
8. Discharge Charts

Discharging Pressure Flow - (setting pressure and overpressure)

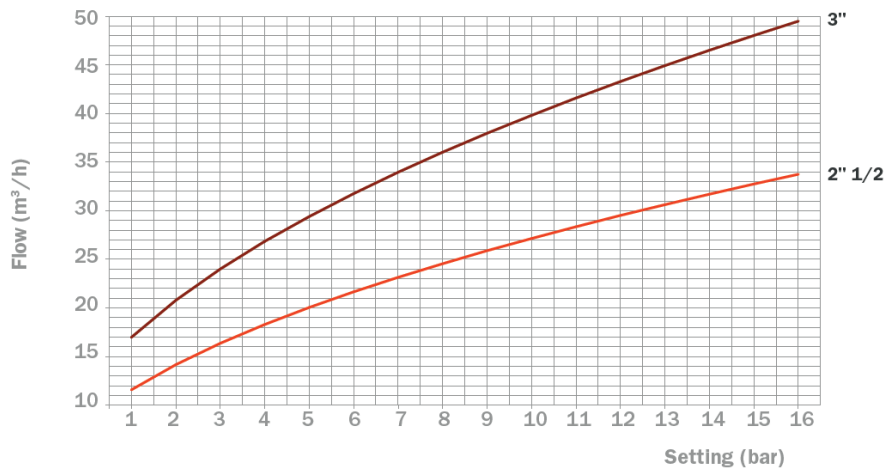
H₂O 3/8"-3/4"



H₂O 1"-2"



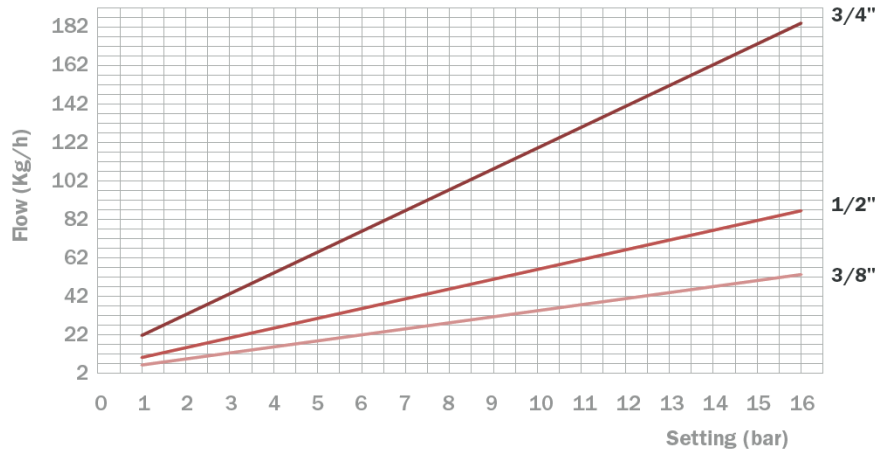
H₂O 2 1/2"-3"



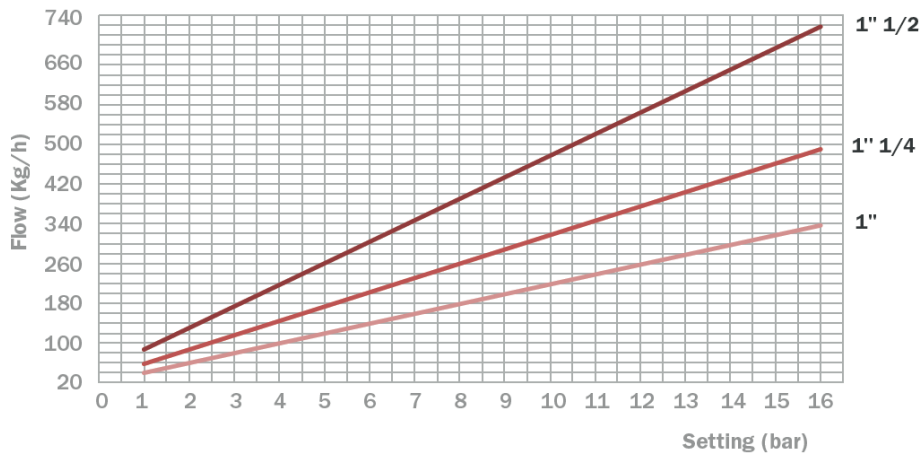
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Discharging Pressure Flow - (setting pressure and overpressure)

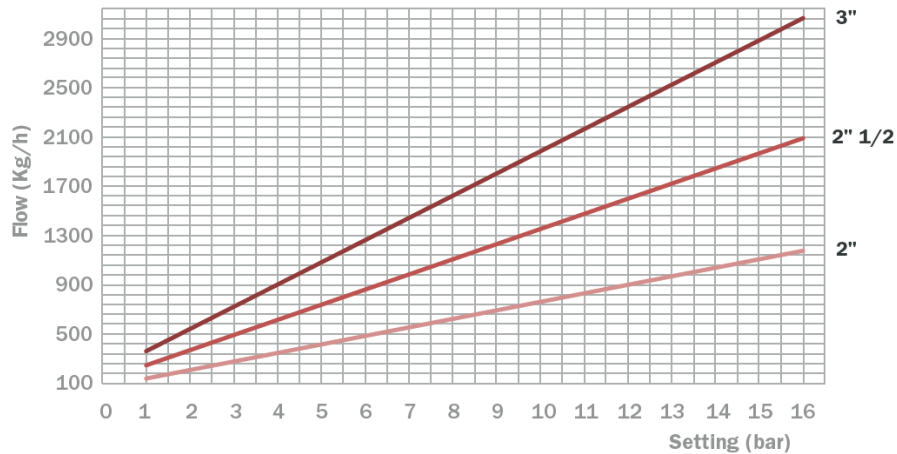
Gas (Category 1 as per PED 2014/68/EU) 3/8"-3/4"



Gas (Category 1 as per PED 2014/68/EU) 1"-1.1/2"



Gas (Category 1 as per PED 2014/68/EU) 2"-3"





About Albion Valves (UK) Ltd

Albion has been supplying valves and fittings to the building services and industrial markets for the past 40 years.

Albion was created with the sole purpose of providing quality products at an affordable price. With a growing reputation for quality and reliability, Albion is now an established brand providing the industry with a trusted alternative to premium-priced products.

Our commitment to setting the highest standards in all areas of our business means, if you're looking for quality, service, delivery and choice — you'll find it's all at Albion.

Quality

Whatever you need, you can rest assured that if it comes from Albion it has been designed and manufactured to deliver optimum performance and is accredited with the necessary approvals. Our in-house quality department are always on hand too!

Service

We pride ourselves on our customer service – we have even won awards for it! Our cradle to grave approach means you will never be on your own!

Delivery

We know that time is money, and when a priority project depends on a part you can trust Albion to deliver – next day for all orders placed before 4:00PM.

Choice

We may have started out with a single brass ball valve, but our range has grown substantially since and we now consider ourselves to be a 'One Stop Shop' with our comprehensive range. It is becoming more and more apparent to the industry, that it really is all at Albion.