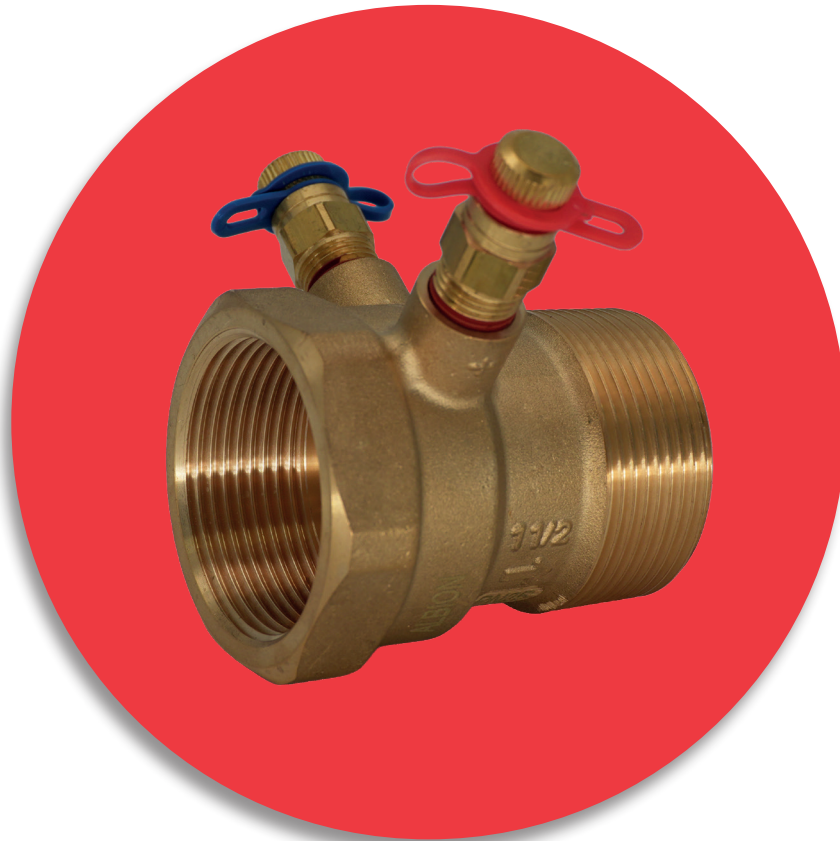




Installation & Operating Manual



ART 67 DZR Brass Metering Station (MS)

Albion Valves (UK) Ltd
www.albionvalvesuk.com
Email: sales@albionvalvesuk.com
Tel: 01226 729900



Contents

1. Introduction
2. Technical Data
3. Valve Features
4. Valve Installation
5. Approvals Classification
6. Troubleshooting
7. Warranty

1. Introduction

- Albion Valves (UK) Ltd's ART 67 is a stand-alone fixed orifice metering station used to measure flow passing through it.
- The ART 67 metering station can be used close coupled to an ART 23 or an ART 26 double regulating valve to form a commissioning set.
- By using the ART 67 & ART 23 / ART 26, the combined flow measurement accuracy of the fixed orifice is +/- 5%.

2. Technical Data

Valve Type	Size Range	Connection Type	Temperature Rating	Pressure Rating (Max)
ART 67	DN15-DN50	ISO 7/1	-10°C - 120°C	25 bar

Flow Coefficient

The flow rate can be calculated using the Kv value and a measured signal.

$$K_v = Q \cdot 36 / \sqrt{\Delta P}$$

$$K_{vs} = Q \cdot 36 / \sqrt{\Delta P}$$

Where Kv & Kvs = flow coefficient (m³/hr at 1 bar differential)

Q - Flow rate (l/s)

ΔP - Head loss attributable to valve (kPa)

ΔPs - Differential pressure across tapping's (signal) (kPa)

Kvs Values ART 67

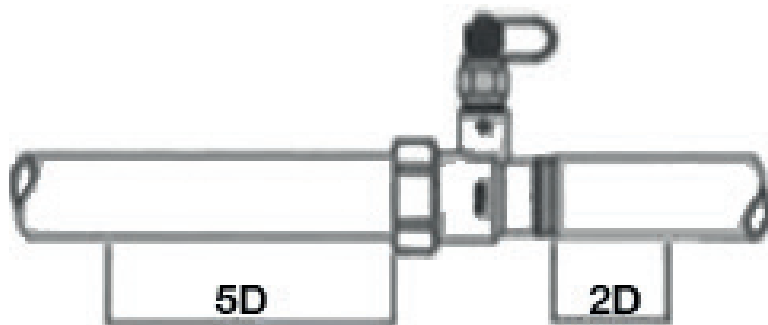
Size	1/2" UUL	1/2" UL	1/2" L	1/2" M	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Kvs	0.11	0.24	0.47	0.96	1.81	4.38	10.07	18.11	29.28	50.59

3. Valve Features

- The ART 67 DZR Metering Station is fitted with 2 test points.
- Made of DZR (Dezincification Resistant) brass.
- This article is made in compliance with the quality management requirements of ISO 9001 standard.
- All articles are tested in accordance with the EN 12266-1 standard.
- It can be used in a wide variety of sectors: heating, air conditioning, water, sanitary systems and generally with any non-corrosive liquid.

4. Valve Installation

- The ART 67 should be sited to ensure ease of access.
- It is the responsibility of the installer to ensure the ART 67 is suitable for service conditions e.g., temperature, pressure, and service media.
- Where fitted, remove all packaging material.
- Care should be taken to ensure the surface finish of the ART 67 is protected during installation.
- The ART 67 may be installed in horizontal or vertical pipework.
- The ART 67 is unidirectional and should only be used for flow in the direction shown on the valve.
- The ART 67 should be installed with a minimum of 5 pipe diameters upstream and 2 pipe diameters downstream as per the image below. This is to ensure flow measurement accuracy is maintained during the commissioning stage.

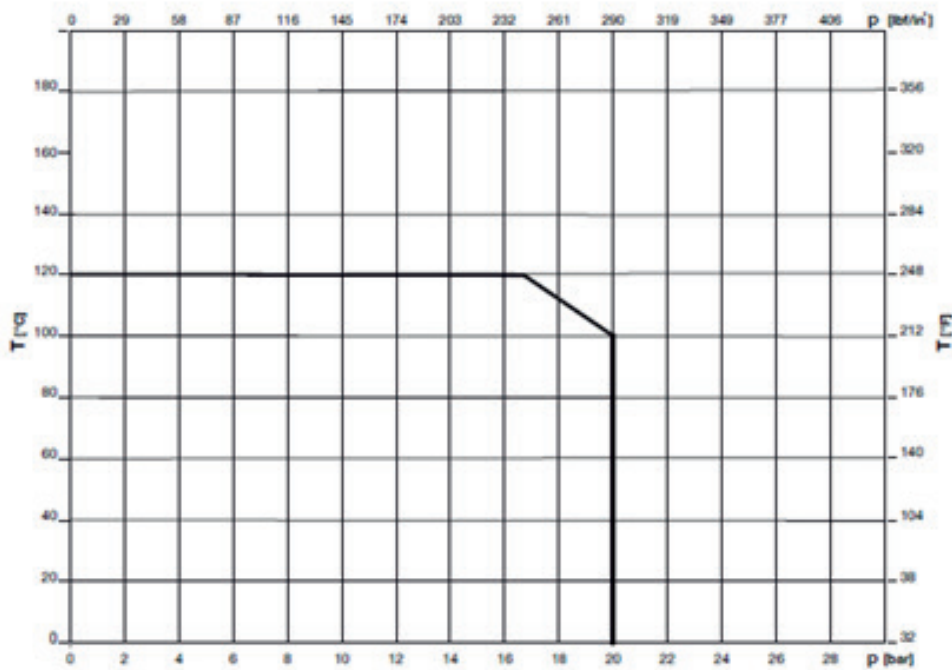


Flushing

Control valves are sized to give good control over the system water and have therefore been designed with small, convoluted flow paths. These water ways may not allow adequate water velocities needed for flushing the system during the pre-commissioning stages of water treatment.

In line with BSRIA BG29 recommendations, suitable consideration needs to be made as to how the removal of system debris can be achieved during the system flushing process.

Pressure – Temperature Rating



5. Approvals Classification

- The valve is classified in accordance with PED 2014/68/EU as Sound Engineering Practice (SEP).

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 depressurised.
- 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's Conditions of Sale available on our website.



About Albion Valves (UK) Limited

Albion Valves (UK) Limited has been in the industrial heating and valve market for over 40 years, with this comes a wealth of knowledge and expertise that allows us to support our network of independent distributors and their customers.

Albion aims to supply a readily available, complete, quality valve solution alongside excellent cradle-to-grave support and service.

That is why we say, '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 and technical departments are always on hand too!

Service

Our cradle-to-grave approach means you will never be on your own. Whether you need assistance with your system designs, an industry-leading turnaround time on your quote, or some help with commissioning after installation, we have a team to help!

Delivery

We know that time is money, and when a priority project depends on a part, you can trust Albion to deliver. We deliver 95% of products the next day with 99.98% accuracy!

Choice

We may have started with a single brass ball valve, but our range has grown substantially since and we can now offer a full building services valve solution, alongside a comprehensive range of valves for the industrial and process markets.

It is becoming more and more apparent to the industry, that it really is, all at Albion.