

High Speed – High Performance Liquid Flow Controllers



bürkert
FLUID CONTROL SYSTEMS

Bürkert Fluid Control Systems
Christian-Bürkert-Straße 13–17
74653 Ingelfingen | Germany

Tel. +49 (0)7940/10-91 111
Fax +49 (0)7940/10-91 448

info@burkert.com
www.burkert.com

- Highly dynamic control through fast flow measurement
- Design and electrical interfaces compatible with Bürkert MFCs for gas
- Fieldbus-enabled

Compact, Compatible and Cost-efficient

Dynamic within the smallest amount of space: it is on the basis of this principle that the liquid flow controller now also makes its especially powerful flow measurement of liquids, in conjunction with a highly accurate proportional valve, attractive for industrial applications, where this technology has hitherto not been used. Thus users benefit from immediate advantages: the integration of sensors, control electronics and actuators into a single device saves having to design each individual component. And they also do not have to worry about the compatibility of suitable interfaces. Another advantage, compared with a solution made up of individual components: the need for only one contact partner, which makes the whole process easier and faster.



Type 8719



Type 8718

A System with the Best Prospects

The liquid flow controller complements the Bürkert range of compact flow control devices for fluid media in terms of mechanical, electric and optical compatibility with the rest of the Bürkert MFC family. In addition, it builds on the time-proven hardware, software and mechanics of the Bürkert mass flow controllers.

It is successfully used primarily in fluid dosing and in vaporization of liquids (in conjunction with MFCs) because of its compactness. This compactness shows itself in the form of a narrow width per station, and saves additional inlet and outlet sections since the liquid flow controller can be installed immediately downstream of an angled connection.

Upshot: The liquid flow controller is predestined for all system solutions where several liquids or a liquid and a gas must be regulated simultaneously. It convinces here thanks to its compactly designed power. This performance also puts forward the case to use it where up to now there were only complex alternatives. The best prospects for our customers who, instead of individual components, receive the whole system solution from a single source!

Innovative and Productive

With the liquid flow controller, the differential pressure process is optimized to deliver accurate flow values with a highly dynamic and appropriate measuring span in the most compact form. The digital device with far-reaching diagnostic facilities has persuasive features to catch the eye:

- Configuration and diagnosis are possible via the serial interface with the free "Mass Flow Communicator" software
- Status display using LEDs
- Configurable binary inputs and outputs
- An integrated totalizer allows consumption analyses without additional efforts
- It is available for various control modules (analog/digital via fieldbuses or RS232/RS485)
- An analog or digital actual value allows comprehensive documentation of the process data
- Protection type IP 65 available for applications in rough environments

Technical Data

MEDIA

Clean and low viscous fluids
(e.g. water, alcohols, low viscous oils)

FULL SCALE VALUES

min. 0.6l/h for water
max. 30l/h for water

MEASURING SPAN

1:10

IN- AND OUTPUT SIGNALS

0 to 5 V, 0 to 10V, 0 to 20mA, 4 to 20mA
alternatively: PROFIBUS, DeviceNet, CANopen

BINARY INPUTS AND OUTPUTS

2 or 3 configurable binary inputs
1 or 2 configurable binary outputs (relay outputs)

OPERATING VOLTAGE

24V ± 10%

BODY MATERIAL

Stainless steel, aluminum

SEAL MATERIAL

EPDM, FKM, FFKM

PROTECTION TYPE

IP65 (types 8719 and 8709)
IP65 (types 8718 and 8708)

PORT CONNECTION

G $\frac{1}{4}$ "
Types 8718 and 8708 available in flanged version

ELECTRICAL CONNECTION

Types 8719 and 8709:
8-pin round socket
15-pin Sub-HD socket
5-pin M12 socket or plug for fieldbus

Types 8718 and 8708:
15-pin Sub-D plug
5-pin M12 socket or plug for fieldbus



Flexible and Versatile

The highly dynamic control through rapid flow measurement, offered by the liquid flow controller at low cost, is used in areas such as:

- Process engineering
- Packaging
- Surface treatment
- Material coating
- Filling technology
- Machine tool construction

to guarantee assured systematic production optimization for the future.