

# EXPERTISE IN CUSTOMIZED FLOW SOLUTIONS



Collaboratively creating your best integrated liquid and gas flow delivery solution



## The Step-By-Step

## Bronkhorst® Solutions

## Co-Creating Process

For OEM's over the world who are searching for simplification and integration of their gas, liquid or vapor flow processes, Bronkhorst is the architect and supplier of integrated platforms that are compact, robust and reliable. We don't just combine existing Bronkhorst instruments for mass flow or pressure measurement or control as, in a co-creating process with our client, we follow the Step-By-Step Bronkhorst Solutions Method. The purpose of this method is to create and build a 100% customized solution that fully meets the customer's needs. The process takes advantage of the huge Bronkhorst product portfolio and our considerable expertise with almost 35 years of experience.



A "scrum-method" with rapid turn-around, a focus on excellent interpersonal communication and clear shared expectations about both ownership and cost structure.





## ANALYSIS

Our process always starts by gathering all the information needed to actually start the design process. In addition to the technical requirements, other aspects are also taken into consideration, e.g. costing and logistics. A kick-off meeting with the customer can be part of this stage.



## DESIGN

In project team meetings we create the architecture for the possible solution. After agreement about the design, we present our offer.



## TEST MODEL



Upon receipt of an initial order, we start the production of a test model.



## VALIDATION

After delivery of the test model, the customer will have the opportunity to test the conceptual solution. If needed, we can be present on site to support this process of design validation.



## REVIEW



If required, the design will be modified and re-presented for a new validation. After the customer's final sign-off, the design will be fixed.



## PRODUCTION SERIES

The production of your own customized solution can start upon reaching an agreement on the terms of delivery, e.g. call-off order, delivery lots, lead times, etc.





## VARIOUS MARKETS AND APPLICATIONS

The solutions that Bronkhorst have co-created with our clients are very diverse. Many famous worldwide industrial brands can be counted amongst our customers. A quick glance at their machinery or equipment may not always reveal that a Bronkhorst customized OEM solution lies within, however, often at the very heart of the design our unique design will be essential to the high-end performance of the overall system.

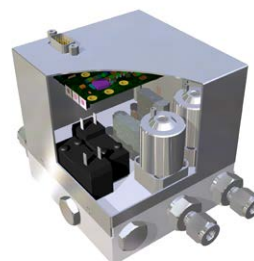
A core Bronkhorst value is the protection of our customers IP and we will not reveal the details of applications served. However, as a general statement we find applications for customized flow solutions in such diverse areas as:

- Analytical equipment
- Additive dosing systems
- Burner control
- Coating systems
- Process humidification



## OUR PRODUCTS

The solutions offered by Bronkhorst are based on our wide product range of instruments for measurement and control of gas, liquid and vapor flow as well as pressure measurement and control. Furthermore, we take advantage of the modular concept applied to our standard product series combining functional components to measure or control the flow or pressure on a customized manifold block. In addition to these standard components, we can integrate two- or three-way valves, shut-off valves, filters or any other functional module as per the customer's request.





## OUR TEAM

With many years of experience in gas and liquid flow management, a sense of honour, a transparent and open way of working, and a creative technical approach, our team members are, we hope, a pleasure to work with. We continuously scan market trends and developments within the field of gas and liquid flow and we are well educated in multi-disciplinary engineering. In addition to these skills, our team has an extensive network within the global Bronkhorst organization offering an enormous source of knowledge.

## THE POWER OF BRONKHORST®

With almost 35 years of experience in manufacturing critical process flow control instrumentation for demanding markets, Bronkhorst has developed into the European market leader for Thermal Mass Flow Measurement / Control, Low and Ultra-Low Flow Coriolis Measurement / Control and Electronic Pressure Control. In parallel, a global network of service and support centers have been established to ensure minimal down-time, 24 hours per day, 7 days per week, 365 days per year. The company is proud of its heritage as an independent, privately owned concern and remains true to its fundamental ethos of technically superior products, backed by operational excellence to ensure focus on the need of each and every customer.



### **Bronkhorst High-Tech B.V.**

Nijverheidsstraat 1a

7261 AK Ruurlo

The Netherlands

**T** +31(0)573 45 88 00

**F** +31(0)573 45 88 08

**I** [www.bronkhorst.com](http://www.bronkhorst.com)

**E** [info@bronkhorst.com](mailto:info@bronkhorst.com)

## CHALLENGE US WITH YOUR LIQUID OR GAS FLOW ISSUE

We're eager to analyse your problem and make an informal proposal how we can help you find the best integrated solution.

