





TruControl MS™ Valve

The Media-Separated Valve that has it all





CONTENTS

Introduction	02
Great Performance at small Space	03
TruControl MS™ Valve	04
Options	06
Innovative Valve Technology for your Dispense Application	07
Applications Food industry	08
Application in other sectors	10
Overview	11

Breakthrough Engineering for a Better World

Norgren is part of global engineering organisation IMI plc. IMI is at the forefront of delivering the solutions we need in a changing world and is focused on creating tremendous value by solving key industry problems in attractive markets and employing the best.

Norgren has a proud history of creating innovative engineering solutions in precise motion control and fluid technology, and we collaborate with our customers across more than 50 countries in critical areas such as Factory Automation, Material Handling, Rail, Energy, Process Control, Life Science and Commercial Vehicles.

From improving speed, productivity, reliability and efficiency of equipment, to generating significant energy and cost savings, or lowering total cost of ownership across many industries, Norgren's high-quality solutions are designed to help customers pursue progress, achieve new goals and overcome problems.

With market-leading industry expertise, we offer the capability, resources, engineering intelligence and global support infrastructure to tackle the largest project demands.

Our world-class portfolio of fluid and motion control products include Norgren, Bimba, Buschjost, FAS, Herion, Kloehn and Maxseal. Supplied either individually or combined into powerful customised solutions to meet customer needs.

Breakthrough engineering you can count on.

Great Performance at small Space

They are synonymous with a spirit of development, strong performance and the highest quality – the market-leading process and all-media valves of the Buschiost brand. We have been developing and producing high-quality valve technology for decades and also supply the manufacturers of professional coffee machines.

As one of the first suppliers of compact polymer valves, we already demonstrated our feel for the trends in the food and beverage industry a good 20 years ago – with success: valves made of high-performance plastic have largely displaced their metal predecessors and have proven themselves over many years. True to our motto "Breakthrough Engineering for a better world", our team is constantly working on improving our portfolio,

always based on comprehensive technical know-how and taking into account specific customer requirements - your requirements.

How can the service life of a coffee machine be increased with the most cost-efficient operation possible? How can the cleaning effort be reduced to further increase the availability of the machine? And how can a compact size be combined with

the widest possible selection of coffee specialities and beverage variations? Our valves are the answer to these questions and enable the efficient and cost-effective operation of professional coffee machines – see for yourself!

NEW: Mediaseparated solenoid valves for professional coffee machines

The 83154 series is the latest generation of compact polymer valves, enables both cost-effective and efficient operation of professional coffee machines and sets completely new standards compared to the technology commonly available on the

- » The new valve generation convinces with its media-separated design: since the chamber of the plunger is not flushed by the media used, lime deposits and other residues are a thing of the past.
- » As simple as it is unique: an **innovative interlinking technology** enables customised configurations, tailored to your individual application.
- » Globally valid certifications according to NSF 169, UL 429, EC No. 1935/2004 and IEC 60335-1 ensure smooth approval processes.



TruControl MS™ Valve 05 04 TruControl MS™ Valve

TruControl MS™

The media-separated valve that has it all.



Media-separated

- Food grade separation membrane
- Ease of rinsibility
- No metals in contact with media



Interlinkable

- Quick and easy linking mechanism



Powerful

- High operating pressures up to 15 bar
- Back pressure proof up to 4 bar
- Withstands media temperatures 1-130° C



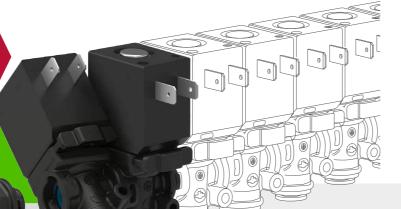
Durable

- Long-lasting polymer material
- Limescale and corrosion resistant
- Low service and maintenance



Compact

- Small footprint for diverse applications
- Seat orifice: 2.5mm (up to 15 bar)
- Seat orifice: 3.5mm (up to 5 bar)





"We supply our customers with the best-possible valve technology both for their existing as well as their future designs."

Ashlee Anderson, Product Manager Dispense Technology at Norgren



Media-separated, space-saving, low-maintenance: the new generation of Buschjost solenoid valves

Developing professional coffee machines is all about durability, availability and efficiency. As a supplier of high-quality valve technology for professional coffee machines, we understand work with the widest possible selection of our customers' needs and know exactly what questions you ask when developing your machines: How can the service life of a coffee machine be increased while operating it as cost-effectively as possible?

How can the amount of cleaning be reduced to further increase the availability of the machine? And how can a compact size coffee specialities and drink variations?

Our latest generation of media-separated solenoid valves, the TruControl MS™ valve, provides the answer to these questions.

Based on extensive know-how, many years of experience in the food and beverage business and awareness of current industry trends, our new valves facilitate the efficient and cost-effective operation of professional coffee machines and set completely new standards compared to standard market technology – see for yourself!

Impressive advantages compared with standard market technology

	Media- separated design	Optimised availability	Global certifications	Linking mechanism	Small footprint	15 bar operating pressure
New valve generation	✓	✓	✓	✓	✓	✓
Standard market technology	×	×	×	×	✓	✓

06 TruControl MS™ Valve TruControl MS™ Valve 07

Options

Solenoids



Performance



2/2-way valve



3/2-way valve



Aggregating & dispensing function

Connections



Compression fitting



Hose connectors



Push-in fitting



Interface

Option



Interlinkable



Single valve



Interface



Accessories

Pressure gauges

Innovative Valve Technology for your Dispense Application

Numerous valves are installed in professional coffee machines. Individually or interlinked, they form various paths via which the media used are controlled.

Thanks to their robust construction and the use of high-quality materials such as PPSU and PPS, Buschjost valves are particularly durable. In addition, they are corrosion-resistant and insensitive to limescale and other contamination – properties that significantly reduce the effort required for service and maintenance.

Depending on the design, Buschjost valves control a wide variety of media, ranging from steam and water - often underestimated because the different degrees of hardness can place great stress on the components – to milk, syrup and flavours.

Thanks to an innovative interlinking technology that is as simple as it is unique, several individual valves can be connected directly to each other without the need for additional accessories – the space required inside the machine is reduced and potential leakage points are kept to a minimum. Positive side effect: without additional fittings, hoses or sealing materials, both costs and storage space are saved.

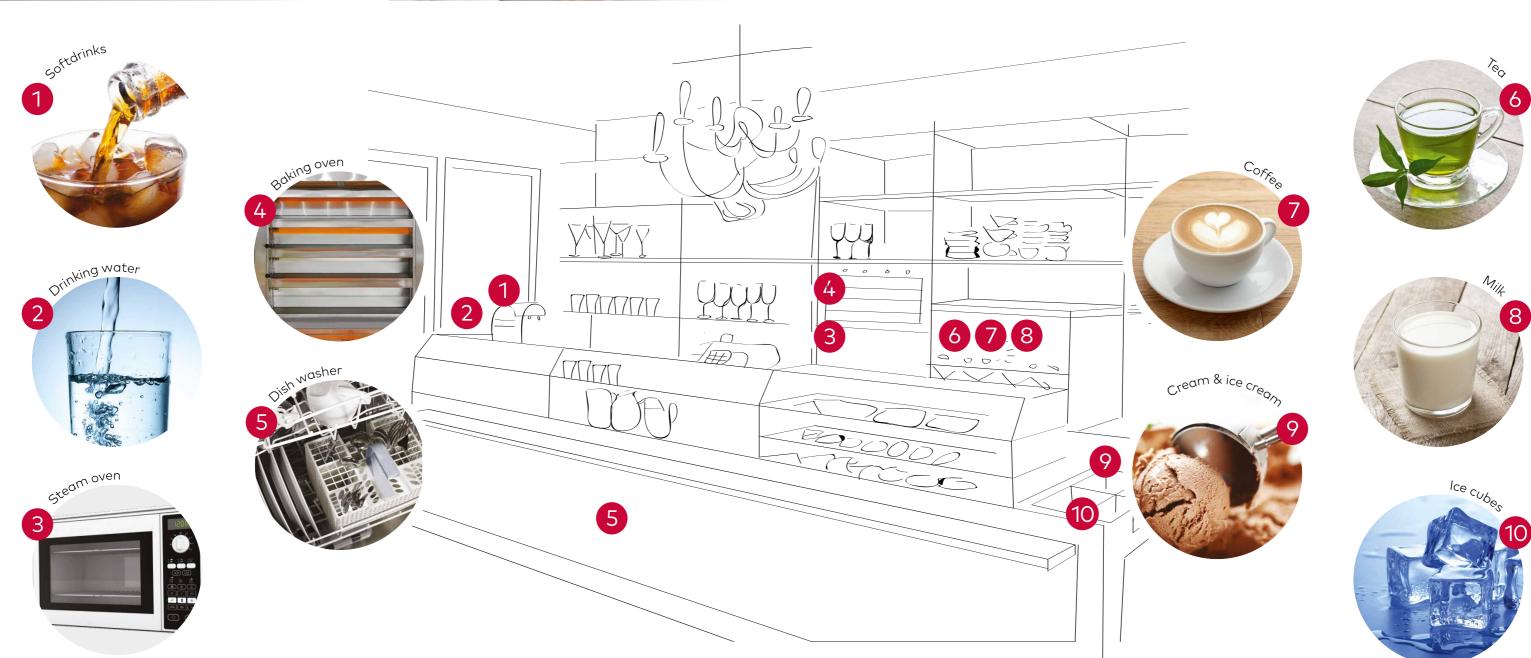
			Connection					ND (mm)*								ge	
Product	uct Description Media separation	Compression fitting	Push-in fitting	Hose connectors	Interface	1.2	1.5	1.8	2.2	2.5	3.5	4.5	6.0	a.c.**	d.c.	d.c. Material	
	Series 83150 2/2-way single valve							•	•						•	•	
	Series 83153 2/2-way valve (interlinkable)							•							•	•	
	Special design 8591352 3/2-way single valve						•	•							•	•	enyl sulphone)
	Special design 8590440 2/2-way valve (interlinkable)									•					•	•	PPSU (polyphenyl sulphone)
	Series 8590820 3/2-way valve (interlinkable)						•								•	•	
0	Special design 8591410 3/2-way valve														•	•	
	TruControl™ 2/2-way valve (interlinkable)															•	PPS (poly- phenylen sulphide)
ustomised	d solutions			1		ı											
HILL	4-fold manifold		on request														Lead-free brass/ stainless steel
/alves for v	vater treatment	:					<u> </u>						'				
	Series 84070/84080 2/2-way valves		G1,	/2, G3/4, 1/2	2 NPT, 3/4 NPT				12 ו	mm,	20 r	nm			•	•	PA12- GF50 (polyamide)

- * NPT/imperial size ports available on request
- ** With rectifier











Overview

Innovated, mediaseparated design

While the chamber of the plunger of standard solenoid valves is flushed by the media used, the TruControl MS™ Valve features a media-separated design based on an innovative and patent pending diaphragm.

In a nutshell: your benefits as a user

» One fits all – a standard solution for all applications

Whether water or steam, milk, syrup or flavourina: the new valve generation is suitable for many different media, which significantly reduces parts complexity - both within the coffee machine as well as for storage.

» Low degree of contamination: The media-separated design ensures efficient valve cleaning: the media used

do not enter the chamber of the plunger, so it remains free of limescale caused by water and steam as well as sticky residues caused by milk or syrup, which significantly increases the service life. In addition, the low amount of dead space in the valve design also ensures a reduction in the degree of contamination.

» Suitable for high operating pressures: The valve works with operating pressures up to 15 bar, covering all applications in professional coffee machines.















Interlinking technology offers many benefits

The new valve generation features a low dead space connection mechanism that is as simple as it is unique: the interlinking of individual valves reduces potential leakage points to a minimum and at the same time makes installation and maintenance much quicker.

In a nutshell: your benefits as a user

» No connecting elements required between valves:

The individual valves are simply inserted into each other, so there is no need to install hoses, fittings and other accessories and leakages are prevented. Positive side effect: reducing additional equipment not only saves costs, but also storage space.

Individual design and easy handling: The linking mechanism is individually configured and tailored to the specific application – up to seven individual valves can be connected. Interlinking does not require any tools, nor does the maintenance of wear parts.

» Small footprint:

Coffee machines are becoming increasingly compact, so the TruControl MS™ Valve generation is also designed to save space.

» Optimised coffee machine availability:

The media-separated solenoid valves are both robust and durable, so they require significantly less service and maintenance than their standard market counterparts. This greatly reduces downtime.

Globally valid approvals and certifications

Tried and tested - the Buschjost brand stands for safety and the highest quality. That's why the media-separated solenoid valves are subjected to numerous checks and tests; various certifications are being prepared.

In a nutshell: your benefits as a user

» Globally valid certifications ensure smooth approval processes: The new valve generation will be certified

according to the following guidelines:



NSF 169



UL 429



EG No. 1935/2004



IEC 60335-1

In the future, the new valve generation can be used in a wide variety of regional markets around the world. For original equipment manufacturers, approval processes of their own machines will therefore become much easier.

Norgren operates four global centres of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in Brazil, China, Czech Republic, Germany, India, Mexico, UK and the USA.

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www.norgren.com

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Incorporating













