



NORGREN

Incorporating



Beverage dispense valves

Robust, flexible and compact

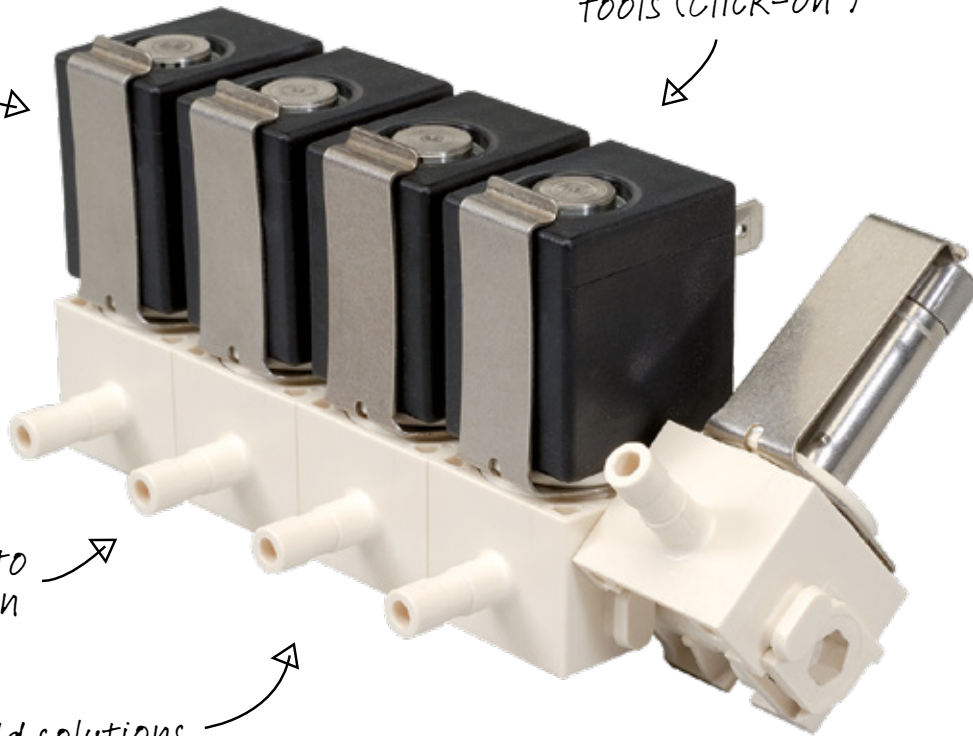


*Corrosion
resistant*

*Solenoid
changeable without
tools (Click-on®)*

*Insensitive to
calcification*

Manifold solutions



CONTENTS

Introduction	02
Valves for beverage dispense	03
Options variants	04
Robust, flexible and compact	05
Applications	06

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, Buschjost, FAS, Herion, Kloehn, Maxseal and Thompson Valves. Supplied either individually or combined into powerful customised solutions to meet customer needs.

Breakthrough engineering you can count on.

Valves for fully automated coffee machines

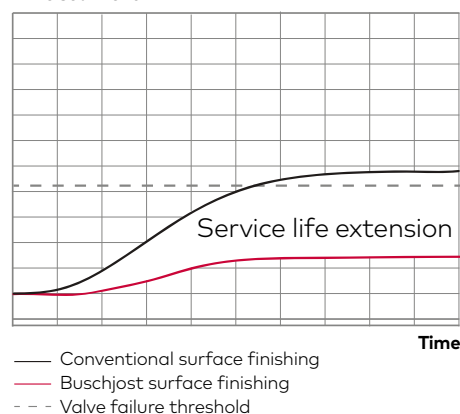
The Buschjost compact valve series offers a number of advantages in fully automatic professional coffee machines. They guarantee long-term, high-quality performance with significantly decreased maintenance costs. The solenoid actuated valves comprised of high performance plastics have replaced the metal valves and ensure perfect enjoyment. Permitted according to NSF, FDA and BfR, they reliably control the cold water, hot water, steam and the necessary cleaning processes.

The highlight is their robust design, which maintains a permanently high output under all conditions. The solenoid valves must be resistant to all media. This specifically applies to water - water quality can vary considerably globally. Various degrees of hardness and calcification, and the isolated occurrence of chlorides stress the components. The solenoid valve materials and material combinations are perfectly designed to meet the various requirements and ensure the required corrosion resistance, high reliability and therefore a long service life. In addition, the low-maintenance valve design extends the necessary service intervals to 24 months in order to guarantee flawless function.

Product highlights:

- » Reduction in the number of fittings when using valve chains
- » Reduction of potential leakage points
- » Corrosion resistant & increased service life
- » "Plug and use" concept – quick installation of modules (up to 7 valves can be linked)
- » Glow wire resistant acc. to IEC/EN 60695
- » Use of approved wetted materials in accordance with NSF, FDA, and BfR
- » VO (EG) 1935/2004
- » UL recognized coils available on request

Lime sediment



(Example)

Designation: 3/2-way solenoid valves

Operation: directly operated

Connection: manifold design / Interface

Nominal Diameter: 1.2 ... 4.5 mm

Operating pressure:

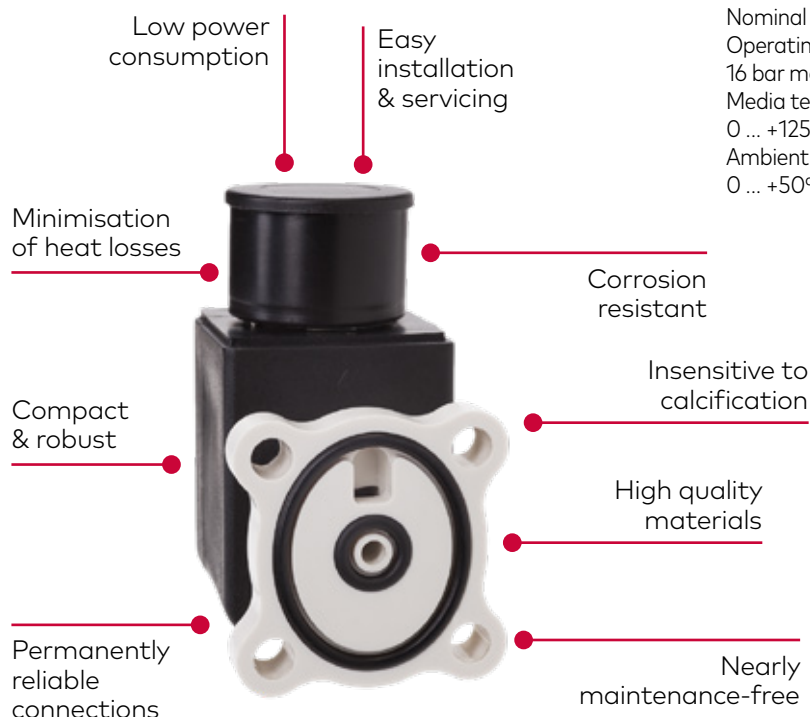
16 bar max. (232 psi), concerning on the nominal diameter

Media temperature:

0 ... +125°C (+32 ... +257°F)

Ambient temperature:

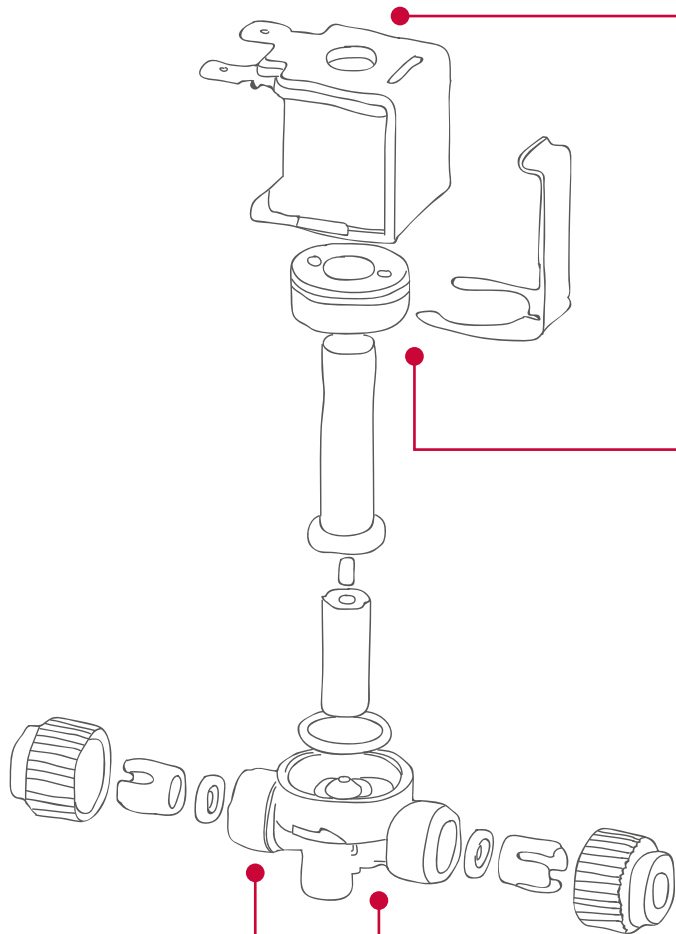
0 ... +50°C (+32 ... +122°F)



Options



Find out more
norgren.com



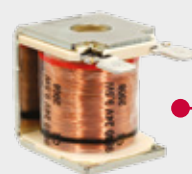
Solenoids



"The Power Pack"



"The Compact"



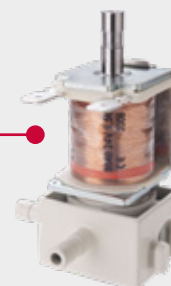
"The Direct Current"

Performance



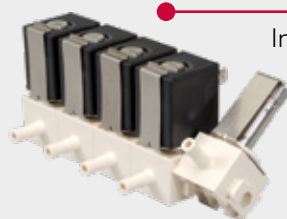
2/2-way valve

3/2-way valve



Pressure Relief valve

Execution



Interlinkable

Interface



Single valve

Connections



Compression fitting



Hose connectors



Tube Push-in fitting










Interface

Robust, flexible and compact

Single or interlinkable plastic valves are used in a fully automatic coffee machine for the multiple applications and according to the various water paths. They also provide for a significantly lower temperature loss of the heating system. From the first touch of a button to the last cup: The coffee is always at the right temperature and delicious.

With interlinkable valves, water distribution takes place via a system that is easy to configure. This reduces the piping expense to an absolute minimum. The space requirement decreases and the construction is more compact. This simultaneously increases flexibility as additional functions are able to be integrated in the coffee machine. The user can also reduce their inventories both in the factory and in service. Interlinking allows inventories of fittings, pipes, sealing material, etc., which would be required for a single valve assembly, to be saved.

Product	Description	Connection					ND (mm)*												Material
		Threaded connection	Compression fitting	Tube Push-in fitting	Hose connectors	Interface	1.2	1.5	1.8	2.2	2.5	3.5	4.5	6.0	AC**	DC			
	2/2-way single valve		•	•				•	•		•	•	•		•	•	PPSU (Polyphenylsulfon)		
	2/2-way single valve (interlinked)				•				•	•					•	•			
	3/2-way single valve		•	•	•		•	•		•		•			•	•			
	2/2-way valve (interlinkable)				•					•					•	•			
	3/2-way valve (interlinkable)				•		•								•	•			
	2/2-way Safety / Relief valve		•	On request										•			Brass / Stainless steel		
Customized solutions																			
	4-fold manifold		On request														Lead-free Brass / Stainless steel		

* NPT/imperial size ports available on request

** With rectifier

Applications



Soft drinks



Drinking water



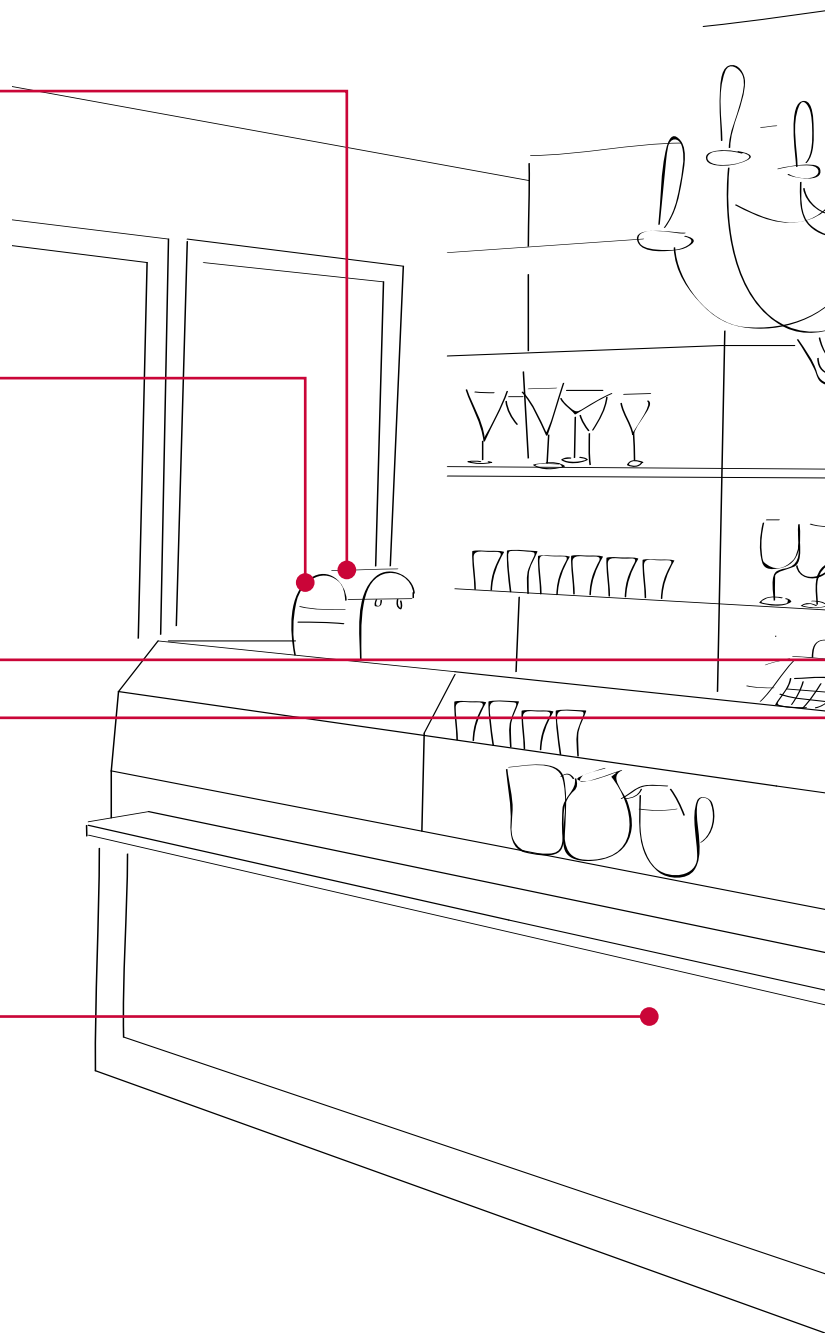
Steam oven

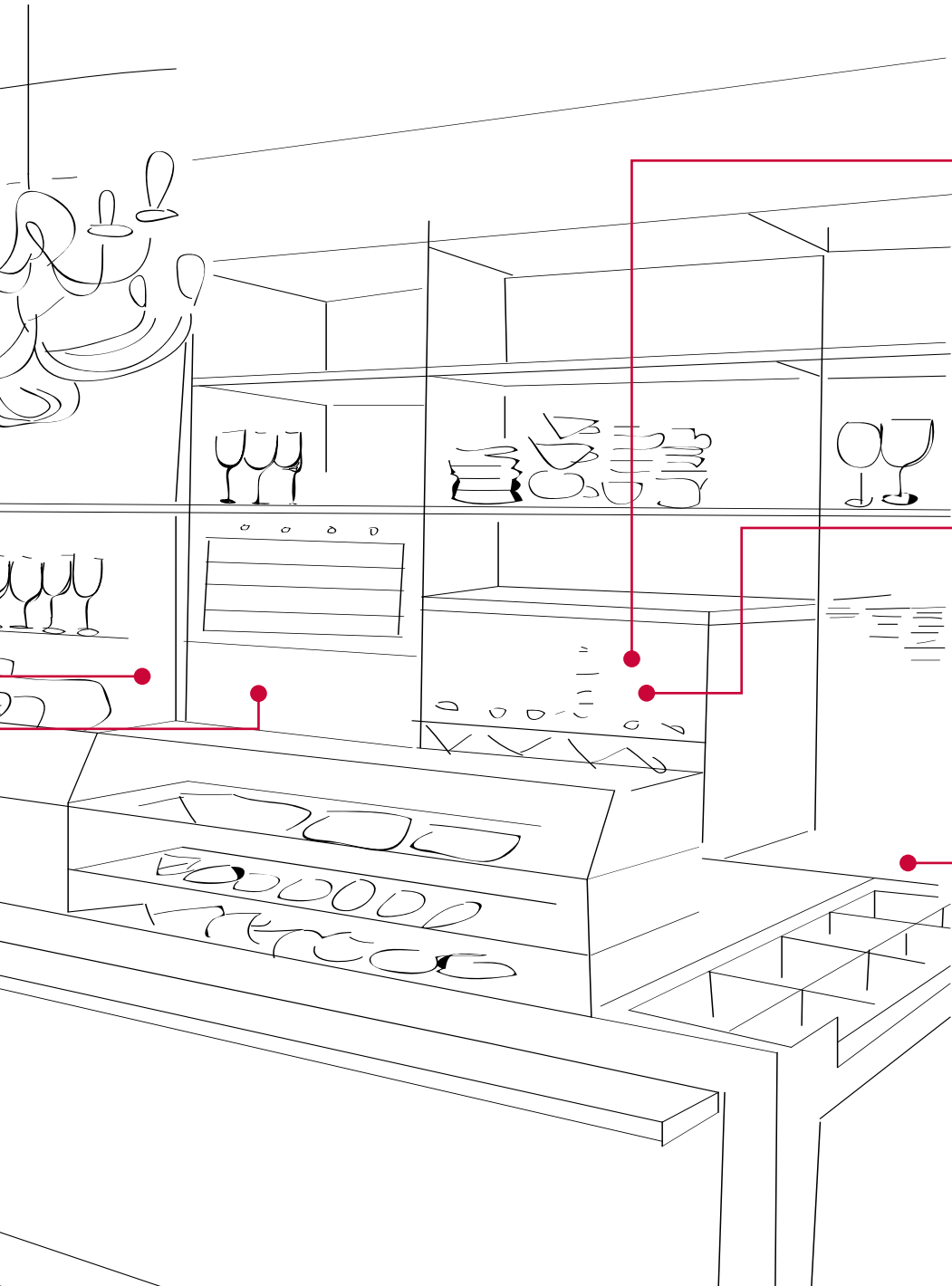
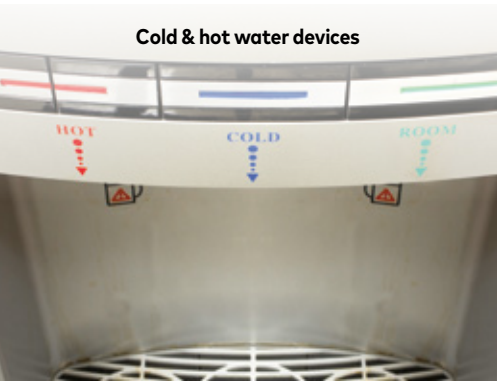


Baking oven



Dishwasher





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.

For information on all Norgren companies visit

www.norgren.com

Supported by distributors worldwide.

For further information, scan this QR code or visit
www.norgren.com



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 **FAS**

 **HERION**

 **KLOEHN™**

 **MAXSEAL**

 **THOMPSON VALVES™**

IMI